

# Second Cycle of Assessment and Accreditation

## Self Study Report

submitted to

National Assessment and Accreditation Council  
Bengaluru



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY**

(Autonomous under UGC, Affiliated to Osmania University,

Accredited by NAAC (UGC) and NBA (AICTE),

ISO 9001: 2008 Certified Institution)

Gandipet, Hyderabad - 500075

December, 2016



## PREFACE

It gives me immense pleasure and privilege to submit the Self-Study Report (SSR) of Chaitanya Bharathi Institute of Technology (A) for the second cycle of accreditation to the National Assessment and Accreditation Council (NAAC), Bengaluru.

This report has been prepared in accordance with the guidelines of NAAC and is a reflection of the academic and administrative functions during the past five years in our institute focusing on prescribed parameters of curricular aspects; teaching-learning and evaluation; research, consultancy and extension; infrastructure and learning resources; student support and progression; governance, leadership and management; innovation and best practices. It is an endeavour which encourages and drives us to capitalize on opportunities and be prepared to face the challenges by synchronizing and balancing our strengths, weaknesses, opportunities and challenges. This helps us developing better strategies for continuous improvement in achieving academic objectives leading holistic development of all the stake holders of the institute.

A committee comprising senior faculty members was constituted to prepare SSR of the institute for the accreditation. The committee has prepared the report through group discussions with its members and regular interactions with all the stake holders. This report has been finalized with utmost sincerity, honesty and collective effort of the faculty members which is now being submitted to NAAC for assessment and accreditation.

We, at Chaitanya Bharathi Institute of Technology (CBIT) Hyderabad, look forward for the visit of the peer team from NAAC, and believe its insightful observations would help us in achieving our institute's objectives enabling us attain global academic standards.

Date: 5<sup>th</sup> December, 2016

  
5/12/16  
Dr. B. Chennakesava Rao  
Principal



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## EXECUTIVE SUMMARY

**Chaitanya Bharathi Institute of Technology (CBIT)** is a premier engineering institute in Telangana State in self-financing category, established in 1979. A group of visionaries from varied professions of Engineering, Medical, Legal and Management formed the Chaitanya Bharathi Educational Society. The motto of the institute is “Swayam Tejaswin Bhava” i.e. to produce job providers rather than job seekers by inculcating techno-preneurial capabilities. In the last 37 years of existence, CBIT has emerged as one of the leading technical education institutes in the country. The serene beauty of CBIT with sylvan surroundings of the historic Osman Sagar is highly conducive to pursue academics.

At the time of inception, the institute started with three under graduate programmes in engineering with a total intake of 200 students. The institute grew leaps and bounds over the last thirty seven years and at present it is offering 9 UG and 11 PG programmes with an annual intake of 1394 students. The institute constantly strives for excellence through its vision “To be a Centre of Excellence in Technical Education and Research” and mission “To address the Emerging Needs through Quality Technical Education and Advanced Research”.

The best facilities made available to the students are excellent infrastructure, state of the art laboratories and a spacious library. The institute has 309 well-qualified and highly committed faculty out of which 100 are doctoral degree holders and 61 are pursuing the same. It has 242 experienced and dedicated supporting technical staff. Excellent academic results of the students and a good number of quality placements are attributed to the expertise of the faculty and staff. CBIT is proud that its graduates are highly appreciated by their employers. In its relentless pursuit for academic excellence, CBIT has scaled great heights globally. CBIT is ranked 71 in the country by National Institute for Ranking Framework (NIRF), MHRD, India in 2016 and is also ranked top in many other surveys.

The emphasis has always been on quality education through holistic approach with a wide range of co-curricular and extra-curricular programmes and activities. This approach exposes students to a variety of social, cultural, intellectual, recreational opportunities and challenges. Such experiences enrich the lives of students and help them develop an all rounded personality. These activities are planned and executed through a number of associations, clubs, societies and students’ chapters of professional bodies, etc.

CBIT has been accredited four times (1998, 2004, 2008 and 2013) by NBA (AICTE), five PG programmes by NBA (AICTE) in May 2016 and by NAAC (UGC) in 2010. The UGC has granted Autonomous status for a period



of 6 years from the academic year 2013-14. It is also the first ISO 9001-2008 certified Engineering Institute in the state. Technical Education Quality Improvement Programme (TEQIP-II), Ministry of Human Resources Department (MHRD) Government of India, with the help of World Bank assistance granted Rs. 4 Crores for implementing the activities permitted under Sub-Component 1.1 for improving quality of education, strengthening the institution to improve learning outcomes and employability of graduates. Subsequently MHRD sanctioned an amount Rs. 2 Crores as additional grant, as CBIT is one of the three well performing private unaided institutions in the State.

Training and Placement Office (TPO) was established with a prime objective of creating career opportunities in reputed corporate companies. It has an exclusive built up space of 8000 sq.ft. with well furnished state of the art facilities like conference hall, home theatre, LCD projectors and PA system. It has an exclusive hall for group discussions, 9 interview chambers and a self sufficient pantry. It was instrumental in entering into MoU's with reputed corporate giants like CTS, Infosys, Wipro, Mahindra & Mahindra, Ericsson, Infotech, etc. in conducting various Industry Institute initiatives. CTS sponsored various technical, cultural and literary events to provide holistic abilities to the students in facing emerging challenges in the context of globalization. Infosys Campus Connect programme enables students to hone their soft skills to meet the industry needs. Wipro Mission 10X is aimed at developing teaching capabilities of various faculty members. CBIT is accredited by WIPRO. CBIT is a part of Pega's University Academic Program (UAP), which offers a university level course of study by Pega-certified professors.

CBIT has earmarked a research fund to nurture and harness research talent among the students and faculty of various disciplines. The organization provides necessary facilities for promoting collaborative research in emerging areas.

The institute has established a state of the art Library and Information Centre in an exclusive building with an area of 18,000 sq. ft. It has modern infrastructure facilities with a spacious reading hall which accommodates more than 350 students at a time. It has 1,04,623 volumes of books and subscribed E-Journal packages such as IEEE, ASME, ASCE, Access Engg., ELSEVIER Science Direct, Springer, ASTM Digital Library, JGATE-JET, JGATE-JSMS, EBSCO for Engg. MBA, MCA courses as per the requirement of AICTE in addition to hard copies of National / International Journals. CBIT established an e-learning resource centre with 25 multimedia systems to access such as online courses, NPTEL, MIT, etc..



CBIT is part of QEEE Pilot programme in the first phase of 96 Colleges/Universities in the country. Students attend these live classes as the lectures are being delivered by IIT professors who have been rated the best consecutively for three years by IIT students.

The Institute organizes mega events like “SUDHEE”, an annual students' technical fest; “SHRUTHI”, an annual sports and cultural fest; "HOME COMING", an Annual alumni meet; "CARPEDIEM", a bi-annual Alumni Fest; "T-SUMMIT", a bi-annual Techno-preneurial conference, etc.

Through its excellent sports facilities and gymnasium, CBIT offers opportunities to students and staff for regular sports activity, work-out, lifestyle management and institutional interaction. Basketball, football, throwball, volleyball and cricket pitches are well maintained. It has wooden floored shuttle badminton and tennikoit courts and many more indoor sports facilities, including a multi-gym equipped with free weights and a range of other equipment, aerobatics, table tennis, carroms, chess, etc.

CBIT provides excellent transportation facilities with a fleet of buses operated separately for students and staff. It runs 36 exclusive buses for students and 6 for staff from various parts of the city in addition to the available public transportation.

Executive summaries for the items mentioned under various criterions are given below:



## **Criterion I : Curricular Aspects**

The curriculum design and development including almanac for various programmes offered by the institute is provided by the affiliating Osmania University before becoming Autonomous. All the HoDs are special invitee members of respective Boards of Studies (BoS) and actively participate in the proceedings of BoS meetings. The curriculum is revised regularly by involving major stakeholders keeping in view the changing societal and global needs and employability of students and feedback from them. Cross cutting issues such as gender, environmental education, human rights, Information Communication Technology (ICT), etc. are kept in mind while revising the curricula. The Institute has been designing and developing its own curriculum for the courses offered by it ever since it became Autonomous from the academic year 2013-14. The institute proposes to implement Choice Based Credit System (CBCS) from the Academic Year 2016-17.

The institute is continuously introducing new programs to ensure the qualifications of students are relevant and impart education that combines industry-valued qualifications and the highest academic standards with flexible modes of learning. Four new PG programmes were introduced during the last four years with an intake of 18 students in each.

The Institute conducts in-house Faculty and Staff Development Programmes before the commencement of every semester. It aims at preparation of lesson plans, content preparation & delivery, effective utilization of library, enhancing communication skills, conduct of examinations and evaluation, research methodologies, etc. The Institute also organizes ICT programmes to train faculty to use the modern tools and technologies. Faculty is deputed for orientation, refresher courses and other academic/administrative programmes for holistic development. In addition to departments, IIPC and EDC also organize expert lectures, invited talks, industrial visits which attribute to the effective implementation of the curriculum. Skill Development programmes are being organized to train the supporting technical staff to upgrade their skills.

TPO in collaboration with few companies organizes programmes such as Campus Recruitment Training (CRT) and Soft skills/Communication skills programmes to meet the global dynamic employment market needs and to improve life skills of students in addition to providing internships and campus placements. Career Guidance Cell (CGC) caters to the needs of the students in choosing the right career options and provides guidance for exams like GATE, GRE, TOEFL, GMAT, etc. This cell arranges lectures by career counselors, distinguished alumni and other eminent personalities.





## **Criterion II : Teaching-Learning and Evaluation**

Teaching-Learning and Evaluation is a significant one as it directly reflects the objective of establishing a higher level educational institution. It emphasizes and elaborates the key factors which influence teaching-learning process and subsequently its evaluation procedures. It helps the Head of the Institution in its transformation towards an effective and innovative learning process and evaluation, so as to refine its effectiveness in functionality on continuous and consistent basis.

Student enrollment and profile including admission process indicates the quality of admitted students as the basic input to an institution which has a tremendous impact on the learning process. Admission is based on EAMCET for UG and GATE/ PGCET/ICET for PG programmes. The Institute follows rules and regulations of the State Government with regard to diverse needs of students like differently abled students. The strategies adopted by the institute in bridging the knowledge gaps of enrolled students enables them to cope with the programme of their choice.

Teaching-Learning Process further includes preparation of teaching plans, evaluation of blue prints, etc. It assesses the support structures and systems available to teachers for enabling students to have interactive, collaborative and independent learning. It analyses the usage of advanced and latest technologies and facilities available like NPTEL, NME-ICT, MOOCS, e-class rooms, open educational resources, etc., to the faculty to implement effective teaching. The innovative methodologies and approaches adopted by the teachers and the availability of the library resources are also being considered. It also analyses the challenges faced by the institution in completing the curriculum within the planned time frame and almanac.

Effective learning is possible with quality teachers and their effective delivery of the content to students. This factor analyses the process of recruitment of quality teachers, their training, deputing them to orientation courses, refresher courses, conferences, workshops, seminars, etc., on a regular basis to upgrade their knowledge from time to time. It highlights the assessment of significant achievements and awards of the teachers to know their quality. Feedback system by the students and mentoring by external peers is also considered.

Evaluation Process & Reforms emphasize the effectiveness of evaluation process adopted and its awareness to all the stakeholders of the institution. The evaluation process of the affiliating University and the institution is being analyzed to have its effective implementation and subsequent reforms possible for further refinement of learning process. It also



talks about the graduate attributes adopted and redressal of grievances mechanism prevailing in the institution.

Students' performance is being measured by using programme wise and year wise result analysis. It analyses the teaching, learning, and assessment strategies adopted by the institution with reference to predefined and intended learning outcomes.

### **Criterion III : Research, Consultancy and Extension**

The faculty members of the institute are engaged in sponsored research projects and individual research work leading to Ph.D award. Eight sponsored research projects have been successfully completed in the last five years and at present, 8 sponsored research projects are ongoing. The total funding by external agencies in the last five years is about Rs. 1.6 crores. External funding agencies include UGC, AICTE, DST, NSTL, DRDO, IEI R&D cell and ISRO. UGC granted one research award and AICTE granted six MODROBS projects to modernize and upgrade different labs in various departments to the tune of Rs. 70.5 lakhs. Faculty members who are engaged in minor & major research projects as principal investigators have freedom in deciding the research area, research methodology and choice of instruments/equipment, etc. for conducting the research projects.

Twenty three faculty members have been recognized as research supervisors by the affiliating Osmania University, Hyderabad; JNTU Hyderabad; NIT Warangal; Rayalaseema University, Kurnool and GITAM University, Visakhapatnam. 38 Research scholars were awarded Ph.D under the supervision of CBIT faculty in the last five years and 88 Research scholars are being guided by CBIT faculty for Ph.D.

The college sanctions duty leave to the faculty members for participating and presenting research papers in seminars, workshops and conferences. Most of the faculty members extend their services as resource persons, juries, session chairs in various technical programmes.

All departments have rich research expertise to carry out quality research. Computer Science & Engineering, Electronics & Communication Engineering and Mechanical Engineering departments are recognized as Research Centers by affiliating Osmania University. Navigation and Communication Research Centre (NCRC) was established in the department of ECE with the support of SAC, ISRO, Ahmedabad. The Institute has a



Research Committee to encourage / promote research among the faculty and students and also to monitor and address the issues related to research. It initiates and promotes multi-disciplinary research collaborations and recommends student / faculty research projects for financial support from the institute. So far, Fourteen in-house research projects were supported a grant of Rs 6.8 Lakhs to faculty. Sixty one student research projects are sanctioned and financially supported to the tune of Rs 40 Lakhs. Faculty members are encouraged to visit R & D laboratories/institutions to get exposure to the latest technological advancements with registration fee, TA/DA and paid leave. The institute supports Ph.D research scholars financially with reimbursement of registration fee and thesis documentation expenditure. The institute has adequate infrastructure and human resources. Besides, campus is Wi-Fi enabled and has well stacked library with latest journals and on line access (digital library) to reputed journals such as IEEE, Elsevier, Springer, ASME etc., along with research oriented books. The college supports its faculty in terms of technology and information needs through high end computing facilities, latest software, high speed internet and uninterrupted power supply. Further, state of the art equipment is made available in laboratories. Institution inculcates and develop scientific temper and aptitude among students with encouragement to take up internships, projects, industrial visits, participation in national and International conferences/workshops to get exposure to outside world by providing financial assistance. Guest lectures /invited talks by renowned International repute researchers are organized for students to get exposure in a wide variety of research areas.

The various departments of the institute organizes many conferences/ seminars/ workshops/ invited lectures/ sensitization programmes with a focus on capacity building in terms of research and imbibing research culture among the staff and students. In the last five years six sponsored technical programs are conducted approximately for Rs. 27 Lakhs. The institute encourages *lab to land* activities such as design and development of “All Terrain Vehicle” by Mechanical and Production Engineering students in which research findings of faculty are used and two Solar Powered Vehicles designed and developed by faculty and students are being used in the campus. Students took part in designing the PICO satellite which was launched by ISRO. ECE department involved in acquiring IRNSS receiver data in NCRC Lab, which is used for the development of positioning algorithms. The research findings of Civil engineering department are transferred to Archeological Society of India



(ASI) and also involved in carrying out Ground Water Harvesting system in the campus.

Institute has always been in the forefront to undertake extension activities that would help to alleviate the suffering of all the sections in the society. Extension activities lead to practical experience which effectively supplement their theoretical knowledge imbining awareness of civic responsibility, social understanding, leadership, team building skills and challenges faced by the Society. The institute has NSS unit, NCC unit, Literacy Club and many other clubs to organize and encourage the students to participate in community oriented services/programmes.

CTS has supported financially to establish Innovation lab with latest software tools to carry out research activities. Institute filed two patents in the areas of Palm Leaves and Friction Spot Welding. Two books are published by the institute faculty during the last five years. Consultancy Cell enhances the Internal Revenue Generation (IRG) of the institute by offering services for the Government, Private organizations, Industry and individuals in solving their critical and routine problems providing appropriate solutions through experimental, analytical and testing tools. Till date, institute has generated an internal revenue to the tune of Rs. 40 lakhs. The institute has more than 50 MOUs/collaborations with national and International reputed agencies which contributed towards the holistic development of the institute.

#### **Criterion IV: Infrastructure and Learning Resources**

The Governing Body of the institute is committed in providing state of the art facilities to the institution. It prepares a strategic plan for creation and enhancement of its infrastructure which is in line with the curriculum. Necessary budget is allocated for execution of its plan to meet its short-term and long-term goals.

Institute's infrastructure provides creative learning spaces that are required to develop well-rounded engineers. The campus has spacious Seminar Halls, Classrooms, and Tutorial Rooms, providing the right atmosphere for in-class learning and after-class discussions between teachers and students. State-of-the-art labs enable students to deepen their classroom learning through practical application. Meticulously drafted timetables in all the departments ensure that the resources like classrooms, computer labs, English lab, and other common labs are optimally utilized as per AICTE norms.



The institute is steadily ramping up its recreational facilities on campus. Indoor and Outdoor Sports facilities include Football, Basketball, Cricket, Table Tennis, Shuttle Badminton, Cricket pitches, Athletics Track, gymnasium etc.

The Institute provides residential facility for boys with all the necessary provisions. The other facilities in the Institute comprise of extensive IT infrastructure and space for various special units like IQAC, Grievance Redressal unit, Women's Cell, Career Guidance Cell, Training and Placement Office, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The Institute has an excellent library and information center, equipped with modern infrastructure, with a reading capacity for 350 users, housed in an independent building with an area of 18,500 sq. ft. spread over two floors. Ground floor accommodates book circulation, open reading sections and reprography / photocopy. First floor accommodates reference books, current periodicals, e-learning resource centre, digital library and discussion rooms etc. It has a collection of more than one lakh volumes, subscribing for more than 5000+ online e-Journals through AICTE - INDEST Consortia and more than 100+ print journals and magazines. All of its house-keeping operations are automated by using *NewGenLib* library integrated software. It is first of its kind Library to receive AICTE Project on "Modernization and Networking of Library & Information Centre" under MODROBS.

The Institutes' classrooms deploy technology that is state-of-the-art to enable a multi-media learning experience to the students. Audio-Visuals, ppts, interactive modules, and also the traditional chalk-on-board methodology are used for effective teaching.

The Engineering and the Maintenance Departments undertake planning and construction, energy management systems, maintenance. This department is responsible for upkeep of all buildings, the arboretum, grounds, including new construction and renovation on campus, maintenance and repair of facilities, maintenance of the College's landscaped areas and **work requests**.

### **Criterion V: Student Support and Progression**

The Institute publishes its updated information brochure annually, which disseminates information about genesis and growth of the institution, courses offered, department wise faculty details, infrastructure details, EAMCET Ranks of students admitted during the previous year, overall results of out-going students of the previous year, research activity, computational facilities, details of library and information center, consultancy services, industry institutional interaction, placements for previous 5 years, sports



facilities, student chapters and club activities, developmental plan for the next three years.

The scholarships are awarded to the eligible sections of under graduate students through the Institute by the State Government. The Institute also provides financial assistance in the form of teaching assistantships based on the funds available to the eligible PG students. Specific support services like ramp, wheel chairs and elevators are available for differently abled students. The Institute provides special and need based assistance to non-English speaking overseas students to improve their English speaking skills, financial support to students to participate in various competitions/national and international, organizes need based coaching classes in soft skills, technical skills , generated aptitude skills for competitive exams, remedial classes and other necessary help to slow learners. Industrial visits to students are part of curriculum to provide an insight into the real working environment of the Industry.

Entrepreneurship Development Cell (EDC) facilitates various programs like T-Summit to develop managerial skills and produce a cluster of talented entrepreneurs from the Institute. The students are encouraged to participate in extracurricular and co-curricular activities such as sports, games, quiz competitions, debate and discussions, cultural activities etc., by providing necessary financial support in the form of travel and accommodation allowances, necessary infrastructure facilities and need based training or preparation by the faculty.

Support and guidance is provided to the students in preparing for the competitive exams through the well equipped institute library, computer labs with internet and Wi-Fi, to facilitate preparation for the competitive exams. Activities like mock group discussions, quizzes, spoken English exercises and guest lectures organized by Career Guidance Cell (CGC) also help the students for preparation.

Placement Cell of the Institute offers a structured mechanism for career guidance and placement of its students by bringing a varied list of recruiters to the campus. It also organizes talks, study abroad seminars, internship opportunities and workshops for the collective student body. It has an unmatched record of guiding young CBITIANS find their dream career.

Student grievance redressal cell and anti-sexual harassment committee will address the related issues. An anti-ragging committee will take necessary action to prevent ragging and in case of the same, timely action will be initiated.



CBIT connects to its Alumni through the alumni association called as “Chaitanya Smruti” which had its genesis in the year 1983. Presently 7000 members are enrolled. Since then it has been organizing reunions on 25<sup>th</sup> December of every year, delivers guest lectures and mentor the students on their visits to the Institute, helps the economically backward students through financial assistance, donates books to the department libraries. Their constructive feedback contributes to the improvement of infrastructure facilities, meticulous curriculum planning, etc for the overall academic excellence of the institute.

The institute facilitates student progression to higher level of education and/or towards employment through its curriculum which includes basic Mathematics and Science, respective core engineering courses, along with the seminars, mini projects, design thesis which help cope up with higher studies and enable them to appear for various eligibility tests.

Students are also provided with ample opportunities to nurture their creativity and develop a wholesome personality through active student clubs in the college - Chaitanya Bharathi Cultural Club (CBCC), Communicando, CBIT-MUN, Entrepreneurship Development Cell (EDC), Google Student Club, Engineers Without Boundaries (EWB), Energy Savers Club, ASME Chapter, IEEE Chapter, ISTE Chapter, NSS Unit, NCC unit, Robotics Club, Society for Automotive Engineering (SAE), Street Cause, Toastmasters Club, Photography club, etc.

The students are encouraged in active participation and in publishing articles in CELERITAS, an annual institute magazine and TRANSCENDENT, a quarterly student newsletter.

### **Criterion VI : Governance, Leadership and Management**

The vision and mission statements of CBIT are “To be a Centre of Excellence in Technical Education and Research” and “To address the Emerging Needs through Quality Technical Education and Advanced Research” respectively. The vision and mission stated above clearly address the needs of the society, the students seeks to serve, College's traditions & value orientations and vision for the future.

CBIT aims at grooming students as professional technocrats and managers by offering learning opportunities and infrastructure facilities to cater requirements of dynamically changing industry from time to time. The Institute is governed by the Chaitanya Bharathi Institute of Technology Society. The top management of the institute is the Governing Body (GB) which is constituted as per UGC/AICTE norms. It plays a key role in design, approval and implementation of quality policy and plans. The leadership



observes whether all areas of institutional development consisting curricular, co-curricular and extra -curricular domains have been given due importance in the action plan.

Institute management provides proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders. Feedback from the stakeholders like students, alumni, employers, industry and faculty, etc., at various levels is analyzed and important inputs are taken into consideration in all the academic as well as management decisions.

The Principal in consultation with Dean-CDAAC, Dean R&D, Dean-Students Affairs, Controller of Examinations, and all HoDs evaluates policies & plans of the College for effective implementation and monitors the same from time to time.

The Institute follows time bound rotation of administrators at various levels so that there shall be no dearth of administrators/leaders in future. Also, the institute has been deputing its senior faculty members to managerial / leadership training like Management Capacity Enhancement Programme (MCEP) to reputed management institutions like IIMs.

Administrative and academic authority and responsibility is distributed at various levels of decentralized organizational set up. Relevant decision making and financial powers are vested with the concerned administrators at different levels to avoid delay and simplify the management of localized issues within their domain. The institute provides operational autonomy to the various departments and committees enabling the administration leading towards a decentralized functioning system.

The Quality Policy of the Institute is: "CBIT imparts value based Technical Education and Training to meet the requirements of students, Industry, Trade/Profession, Research and Development Organizations for Self-sustained growth of Society". The quality policy is designed keeping in view the vision and mission statements with the given inputs of student quality, faculty as well as expectations of the stakeholders in order to contribute to the growth of knowledge, national development and answering societal concerns. It is designed to serve the society through technical competence, knowledge transfer in extension activities and research.

The institute has a perspective plan for development and the plan is expressed in terms of long term, medium term and short term goals.

The institute has strategic improvement plans for its quality of Teaching & Learning process, quality in R&D, quality in community engagement, human resource management, and institute-industry interaction.





The Institution ensure that grievances/complaints are promptly attended to and resolved effectively through various mechanisms to analyze the nature of grievances for promoting better stakeholder relationship.

Performance review is done annually in an objective way. The review is done at various levels like, student feedback on performance of the faculty, self performance appraisal by the individual faculty, HoD's assessment and finally at the Institutional level. The performance review offers scope to understand an individual on a wider perspective with multiple role play and it helps in grading the faculty and rewarding them. This also helps in improving teaching-learning process, disseminating abilities of a faculty member in a given subject; the innovative nature and interest in R&D; the leadership qualities for future responsibilities and training needs. The above analysis resulted in development of the institution and individual faculty.

The institute's major source of income is tuition fee. The Institute is implementing the UGC / AICTE Pays scales for the faculty and the D.A. and other allowances are given as per the Central and State Government revisions announced from time to time. Some of the welfare schemes available for teaching and non teaching staff are Group Medical Insurance, Employee's Provident Fund (EPF) and Employee's State Insurance (ESI) benefits, etc. Qualified Chartered Accountants are appointed as internal and external auditors.

The institute established an Internal Quality Assurance Cell (IQAC) on September 04, 2010. Most of the IQAC decisions were approved by the management and were implemented. The institution has an integrated framework for quality assurance of the academic and administrative activities. The internal quality assurance mechanisms of the institute align with the requirements of the relevant external quality assurance agencies/regulatory authorities.

The institution provides training to its staff for effective implementation of the Quality assurance procedures. Some of the impacts are increased in pass percentage, enhancement of campus placements, rise in faculty publications and PhD degrees, increase in research projects from external funding agencies, etc. The institution undertakes Academic Audit or other external review of the academic provisions.

### **Criterion VII : Innovations and Best Practices**

The institution is very much committed to preserve and protect its complete environment. The green cover encompasses 40% of the campus land area with various shady trees like Delonix, Pongamia, Palm and Neem species alongside the lush green lawns endowed with various crotons and supported



by hedges, Ashokas. The institute has taken its share of social responsibility in reducing carbon emission through renewable energy source like solar energy for computer labs in mechanical engineering department. The conventional lighting is steadily replaced with CFL and LED lamps. There is an adequate mechanism prevailing in the institute for maintaining and protecting the green environment. A scheme is under active consideration for recharging bore wells from rainwater and also diverting the silage for garden plantation. Two Check dams were constructed in the campus. The institute at its own level has taken up certain preventive measures to check the emission of carbon dioxide.

The institution strives to have a conducive environment for creative and innovative initiations in all spheres of academic progression leading to quality enhancement.

Two of the best practices contributed to the achievement of the institutional objectives contributed to the quality improvement of the core activities of the institute are inculcating the spirit of research among faculty for a progressive technological growth and holistic approach for overall development of students by emphasizing co-curricular and extra-curricular activities.

## **SWOC ANALYSIS**

### **STRENGTHS:**

#### **Recognition:**

- CBIT is ranked 71 in the country and is the only self financing Institute in the State of Telangana in top 100 Engineering colleges by NIRF, MHRD, India (2016)
- 57<sup>th</sup> position out of top 100 Engineering Colleges in the country, 15<sup>th</sup> out of top 100 Private Engineering colleges in the country, 10<sup>th</sup> out of top 72 private Engineering colleges in South Zone – by The Week Magazine (June, 2015)
- 31<sup>st</sup> position out of top 100 Engineering Colleges in the country - by Out Look Magazine (July, 2016)
- University of Bradford, UK & Education matters conferred the “Engineering Education award” to CBIT for the exemplary commitment and impactful positive contribution to the education sector
- Twenty two students of Mechanical Engineering participated in an event organized by ATA Formula Society for Mechanical Engineering



(FSAE) held at “ITALY” on Race Car building in the month of September ‘2015

**Accreditation:**

- Accredited by NBA (AICTE) in 1998, 2004, 2008 and 2013.
- Five PG programmes have been accredited by NBA (AICTE) in May 2016.
- Accredited by NAAC (UGC) in 2010.
- ISO 9001:2008 certified Institutions

**Quality improvement support:**

Technical Education Quality Improvement Program, Second Phase (TEQIP-II) project of Ministry of Human Resources Department of Central Government with World Bank Assistance and the total project cost of Rs. 600.00 lakhs for implementing the activities permitted under Sub-Component 1.1 for Improving Quality of Education, strengthening the institution to improve Learning outcomes and Employability of Graduates.

**Placements:**

It has credibility of achieving campus placements for most of the eligible and interested students during the past 5 years.

**Human resource:**

It has qualified, competent, well experienced and young dynamic faculty and is known for its high retention factor.

**Students Outcome:**

The pass percentage is consistent with 95% on an average out of which 87% of the students are passing either in distinction or in first class. More than 75% of the students are being placed in highly reputed companies through campus placements. The remaining students are pursuing their higher education, seeking public sector jobs or becoming entrepreneurs.

**Autonomous Status:**

Autonomous status confirmed by the UGC (w.e.f academic year 2013-14) enabled the Institute flexibility in starting new programmes and new courses in existing programmes to meet ever changing needs of the industry.

**Alumni:**

Strong and active Alumni Association is the strength of the Institution

**Research and Consultancy:**

Institute has good number of research projects funded by various funding agencies like DST, UGC, AICTE, DRDO, BHEL, etc., and the college is encouraging its faculty and students to carry out research projects by extending financial support. Good number of consultancy projects are undertaken by the Institute.

**WEAKNESSES:****Non availability of 24x7 campus:**

Due to non availability of staff quarters and hostels for students, the resources available in the institute are underutilized.

**Database Center:**

Due to non-availability of database center, collecting and compiling data for various reports to make for accreditation is not effective.

**Research and Consultancy:**

Even though good number of research and consultancy projects are undertaken by the institute, there is unequal contribution from all the departments.

**Limited Facilities:**

In spite of having good number of well qualified faculty, there is still a shortage of PhD qualified faculty in some of the departments. Quality Improvement Programme (QIP) for faculty to pursue PhD is not active.

**OPPORTUNITIES:****Financial Resources:**

Potential areas for growth and higher performance with the help of enormous funding in 11th plan. The acts of UGC/AICTE/CSIR are providing enough financial resources to promote faculty development and research.

**Collaborations:**

With Foreign Universities to get admission for further studies, work, do project or research, and exchange ideas.

**Continuous learning:**

For both teachers and students, improving employability opportunities.

**Development Centre:**

Establishment of Skills and Personality development centre with the available funds.

**Enhance Industry-**

Academia Interface: Practical exposure



## **CHALLENGES**

### **Facing Competitors:**

It will be a challenge to attract the top ranking students in future because of increasing competition.

### **Changing Trends:**

Changing national and global trends in technology / marketing and policies.

### **Demand and Supply Gap:**

Mismatch between demand and supply of good faculty in terms of quality and quantity.



## 1. Profile of the Autonomous College

### 1. Name and Address of the College:

Name:	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	
Address:	CHAITANYA BHARATHI P.O., GANDIPET, KOKAPET(V) RAJENDRANAGAR(MD), RANGAREDDY (DIST)	
City: HYDERABAD	Pin: 500075	State: TELANGANA
Website:	www.cbit.ac.in	

### 2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Prof. B Chennakesava Rao	O: 040-24193278 R:	918466997201, 919866141821	040 24193278	principal@cbit.ac.in, raobck@rediffmail.com
Vice Principal		O: R:			
Steering Committee coordinator	Prof. Suresh Pabboju	O: R: 040-23512491	919885313161	040 24193278	plpsuresh@gmail.com, Plpsuresh@cbit.ac.in

### 3. Status of the Autonomous College by management

- I. Government  
II. Private  
III. Constituent College of the University

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

### 4 Name of University to which the College is Affiliated

Osmania University,  
Hyderabad

### 5. a. Date of establishment, prior to the grant of 'Autonomy': 18/10/1979

### b. Date of grant of 'Autonomy' to the College by UGC: 22/05/2013



**6. Type of Institution:**

- a. By Gender
- i. For Men
  - ii. For Women
  - iii. Co-education

- b. By Shift
- i. Regular
  - ii. Day
  - iii. Evening

- c. Source of funding
- Government
  - Grant-in-aid
  - Self-financing
  - Any other (Please specify)

**7. It is a recognized minority institution?**

- Yes
- No

If yes specify the minority status(Religious/linguistic/any other) and provide documentary evidence.

NA

**8. a. Details of UGC recognition:**

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)	02-08-1994	-
ii. 12 (B)	02-08-1994	-

(The Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act is enclosed in Annexure - I )



**b. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)**

Under Section/ clause	Day, Month and Year (dd-mm-yyyy)	Validity	Programme/ institution	Remarks
<b>AICTE</b>				
F.No. South -Central/1-2813133675/ 2016 EOA	25-Apr-2016	2016-17	B.E/B.Tech	-
F.No. South -Central/1-2813133675/ 2016 EOA	25-Apr-2016	2016-17	M.E/M.Tech	-
F.No. South -Central/1-2813131042/ 2016 EOA	25-Apr-2016	2016-17	MBA	-
F.No. South -Central/1-2813419526/ 2016 EOA	25-Apr-2016	2016-17	MCA	-
<b>Osmania University</b>				
No 1087/H/ 2014-15/ Acad.IV-1	10-July-2015	2018-19	B.E/B.Tech, M.E/ M.Tech, MBA, MCA	-

(The Certificate of recognition/approval is enclosed in Annexure -II)

**9. Has the college recognized**

a. By UGC as a College with Potential for Excellence (CPE)?

Yes  NO

If yes, date of recognition: ..... (dd/mm/yyyy)

b. For its contributions / performance by any other governmental agency?

Yes  NO

If yes, Name of the agency: NPIU of MHRD (TEQIP-II) and

Date of recognition: 19/09/2011

CBIT is one of the eight self-financing institutions in the state selected to implement Technical Education Quality Improvement Program Second Phase (TEQIP-II) project of Ministry of Human Resources Department of Central Government with World Bank Assistance and the total project cost of Rs. 400.00 lakhs for implementing the activities permitted under Sub-Component 1.1 for Improving Quality of Education, strengthening the institution to improve Learning outcomes and Employability of Graduates. For, implementing the project CBIT signed an MoU with National Project Implementation Unit (NPIU) and State Project Facilitation





Unit (SPFU) on 19<sup>th</sup> September' 2011. In addition, MHRD sanctioned an amount Rs.200.00 lakhs as additional grant as CBIT is one among the three well performing private unaided institutions in the State, implementing the TEQIP-II Project.

#### 10. Location of the Campus and area

Location *	Semi-urban
Campus area in sq. mts.	2,05,578.59
Built up area in sq. mts.	56,50,800

(\*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

#### 11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.

- Auditorium/seminar complex
  - One Open Air Auditorium : 114.5 Sq.mts
  - One Assembly Hall : 731.88 Sq.mts
  - One main Seminar Hall : 155 Sq.mts
  - 15 Seminar Halls
- Sports facilities
  - play ground : Yes
  - swimming pool : No
  - gymnasium : Yes
- Hostel
  - \* Boys' hostel
    - i. Number of hostels :01
    - ii. Number of inmates : 600
    - iii. Facilities (mention available facilities) :  
Wi-Fi, Recreation facilities, RO plant, security, sports facilities including gymnasium
  - \* Girls' hostel: (Private, exclusive)
    - i. Number of hostels : 01
    - ii. Number of inmates : 110
    - iii. Facilities (mention available facilities) : Wi-Fi,  
Recreation facilities, Security



- Residential facilities
  - \* for teaching staff
  - \* for non teaching staff

-26 Residential Facilities are available for teaching staff and Non teaching staff

- Cafeteria  
Yes, 730 sq.mts of cafeteria is available for staff and students with wide variety of food and confectionaries.

- Health centre – Yes, four bed Health centre
  - First aid facility : Yes
  - Inpatient facility : No, sickbay is available
  - Outpatient facility : Yes
  - Emergency care facility : Yes
  - Ambulance facility : No, But facility to emergency transport is available

**Health centre staff–**

Qualified doctor	Full time	✓	Part-time	
Qualified Nurse	Full time	✓	Part-time	

- Other facilities
  - \* Bank : Yes
  - \* ATM : Yes
  - \* post office : Yes
  - \* book shops : Yes
- Transport facilities
  - \* for students :Yes
  - \* for staff :Yes
- Power house : Yes
- Waste management facility : Yes

**12. Details of programmes offered by the Institution: (Give data for current academic year)**



Sl. No.	Programme Level	Name of the Programme/ Course	Duration (Years)	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
01	UG	Civil Engineering	4	Intermediate with M,P,C	English	120	120
02	UG	Computer Science Engineering	4	Intermediate with M,P,C	English	180	180
03	UG	Electrical and Electronics Engineering	4	Intermediate with M,P,C	English	120	119
04	UG	Electronics and Communication Engineering	4	Intermediate with M,P,C	English	180	180
05	UG	Mechanical Engineering	4	Intermediate with M,P,C	English	120	120
06	UG	Information Technology	4	Intermediate with M,P,C	English	120	119
07	UG	Production Engineering	4	Intermediate with M,P,C	English	60	58
08	UG	Chemical Engineering	4	Intermediate with M,P,C	English	60	51
09	UG	Bio-Technology	4	Intermediate with M,P,C/ B,P,C	English	60	55
10	PG	CIVIL-SE	2	BE / B.Tech	English	25	19
11	PG	CIVIL-EQ	2	BE / B.Tech	English	18	00
12	PG	CSE	2	BE / B.Tech	English	36	23
13	PG	IT-CNIS	2	BE / B.Tech	English	18	11
14	PG	ECE-CE	2	BE / B.Tech	English	18	05
15	PG	ECE-ES&VLSI	2	BE / B.Tech	English	18	12
16	PG	MECH-TE	2	BE / B.Tech	English	18	05
17	PG	MECH-CAD/CAM	2	BE / B.Tech	English	25	09
18	PG	EEE-PS&PE	2	BE / B.Tech	English	18	09
19	PG	MBA	2	Any degree	English	120	120
20	PG	MCA	3	Any degree with Mathematics	English	60	47



21	Integrated Masters	-	-	-	-	-	-
22	M.Phil	-	-	-	-	-	-
23	Ph.D	-	-	-	-	-	-
24	Integrated Ph.D	-	-	-	-	-	-
25	Certificate	-	-	-	-	-	-
26	Diploma	-	-	-	-	-	-
27	PG Diploma	-	-	-	-	-	-
28	Any other (Please specify)	-	-	-	-	-	-

Note: The eligibility qualification for ME/MTech programme is respective degree in BE/BTech

**13. Does the institution offer self-financed Programmes?**

Yes

NO

If yes, how many?

**14. Whether new programmes introduced in the college during the last five years?**

Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
-----	-------------------------------------	----	--------------------------

If yes,

Number

**15. List the departments: (Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)**

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research Centre(s)
Science	-	-	-	-
Arts	-	-	-	-
Commerce	-	-	-	-
Any other	Civil	1	2	-



(Engineering)	Computer Science & Engg.	1	1	1
	Electrical & Electronics	1	1	-
	Electronics & communications	1	2	1
	Mechanical	2	2	1
	Information Technology	1	1	-
	Chemical	1	-	-
	Bio-Technology	1	-	-
Any other (computer applications and Management)	Master of Computer Applications(MCA)	--	1	-
	School of Management Studies	--	1	-

**16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give etails.**

All the UG and PG courses are covered under autonomous status of UGC.

**17. Number of Programmes offered under (Programme means a degree course like BA, MA, BSc, MSc, B.Com etc.)**

- a. annual system
- b. semester system
- c. trimester system

**18. Number of Programmes with**

- a. Choice Based Credit System
- b. Inter/Multidisciplinary Approach
- c. Any other (specify)

**19. Unit Cost of Education**

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled )*

- (a) including the salary component



(b) excluding the salary component

**20. Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?**

YES  NO

If yes,

- How many years of standing does the department have?  
..... years
- NCTE recognition details (if applicable)  
Notification No.:  
.....  
Date: ..... (dd/mm/yyyy)
- Is the department opting for assessment and accreditation separately?  
Yes  No

**21 Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?**

YES  NO

If yes,

- How many years of standing does the department have?  
..... years
- NCTE recognition details (if applicable)  
Notification No.:  
.....  
Date: ..... (dd/mm/yyyy)
- Is the department opting for assessment and accreditation separately?  
YES  NO

**22. Whether the College is offering professional programme?**

YES  NO

If yes, please enclose approval / recognition details issued by the



statutory body governing the programme.

The college is offering BE/B.Tech and ME/M.Tech in various engineering disciplines. The college is also offering MBA and MCA. (Details are enclosed in Annexure -II & III)

**23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.**

The college has been reviewed by the regulatory authorities like AICTE and Affiliating Osmania University. (Details are enclosed in Annexure -II & III)

**24. Number of teaching and non-teaching positions in the College**

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government Recruited	-	-	-	-	-	-	-	-	-	-
Yet to recruit	-	-	-	-	-	-	-	-	-	-
Sanctioned by the Management/ society or other authorized bodies	31		67		214		154		86	
Recruited	35	5	36	13	127	95	124	30	71	15
Yet to recruit	9(Excess)		18		8 (Excess)		0		0	

\*M-Male\*F-Female

**25. Qualifications of the teaching staff:**

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	23	03	19	06	15	08	74
M.Phil.	-	-	-	-	-	-	-
PG	02	01	16	04	51	42	116
Temporary teachers							
Ph.D.	10	01	03	02	02	08	26
M.Phil.	-	-	-	-	-	01	01
PG	-	-	-	-	55	38	93
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-



M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

**26. Number of Visiting Faculty/Guest Faculty engaged by the College.**

02

**27. Students enrolled in the College during the current academic year, with the following details:**

Students	UG		PG	
	M	F	M	F
From the state where the College is located	2725	1586	319	260
From other states of India	-	-	-	-
NRI students	-	-	-	-
Foreign Students	9	6	-	-
Total	2734	1592	319	260

\* M - Male\* F - Female

**28. Dropout rate in UG and PG (average of the last two batches)**

UG

PG

**29. Number of working days during the last academic year.**

**30. Number of teaching days during the last academic year**

**31. Is the College registered as a study centre for offering distance education programmes for any University?**

YES  NO

If yes, provide the

a. Name of the University

b. Is it recognized by the Distance Education Council?

YES  NO





c. Indicate the number of programmes offered.

**32. Provide Teacher-student ratio for each of the programme/course offered**

BE/B.Tech	1:15
ME/MTech	1:12
MCA	1:15
MBA	1:15

**33. Is the college applying for**

Accreditation: Cycle 1  Cycle 2  Cycle 3  Cycle 4

Re-Assessment:

**34. Date of accreditation\*(applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**

Cycle 1 04/09/2010 Accreditation Outcome/ Result: B Grade (CGPA of 2.73)

(copy of accreditation certificate(s) and peer team report(s) enclosed as annexure-IV)

**35. a. Date of establishment of Internal Quality Assurance Cell (IQAC)**

IQAC was established on 27/04/2011

**b. Dates of submission of Annual Quality Assurance Reports (AQARs).**

I. AQAR for year 2011-12 on 26/09/2012

II. AQAR for year 2012-13 on 05/08/2013

III. AQAR for year 2013-14 on 07/08/2014

IV. AQAR for year 2014-15 on 06/08/2015

V. AQAR for year 2015-16 on 09/09/2016

**36. Any other relevant data (not covered above) the college would like to include. (Not exceeding one page)**

The institute has become autonomous w.e.f. the academic year 2013-14.



## **CRITERION I: CURRICULAR ASPECTS**

### **1.1 Curriculum Design and Development**

#### **1.1.1 How are the institutional vision / mission reflected in the academic programmes of the College?**

The vision statement facilitates institute's evolution into a Centre of excellence in technical education and research with a holistic approach. Accordingly, the curriculum is designed to embed in it, various aspects like knowledge application, problem analysis, solution development, usage of modern tools, translating knowledge to meet contextual needs of society, besides offering scope for engineering solutions to environmental issues. Further, designing of the syllabi, instruction methodology and evaluation process with outcomes targeting the vision and mission of the institute.

#### **1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)**

During the process of designing the curriculum, the broad spectrum of requirements for a graduate student in the specific discipline are surveyed through various means like curricula at higher institutes of repute, domain specific international picture, accreditation criteria, model curriculum proposed by competent authorities alongside ever changing industrial needs and the feedback from all the stake holders involved.

After this preparatory activity a mock Board of Studies (BoS) with senior faculty, subject experts are held. The BoS has adequate representation from the industry, alumni and subject experts.

Later, First year courses, interdisciplinary courses, conflicting issues, etc., are discussed in the meeting of Common Board of Studies.

After a thorough discussion in the BoS the proposals are finalized and placed before the Academic Council for necessary approval. The academic council ensures the standards in the preparation of the contents in terms of regulations as well as the mechanisms used to evolve the syllabi and evaluation process before it recommends for final approval by Governing Body (GB).

The GB after due deliberation on the recommendations of the academic council gives its nod for implementation.

#### **1.1.3 How does the College involve industry, research bodies, and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?**



UGC guidelines are followed on formulating the statutory bodies by involving personnel from industry, research bodies, and academicians from other reputed institutes in the curriculum design and development process.

Feedback is obtained from the employers, alumni and researchers from various disciplines who are invited to the campus for the introduction of advanced electives in the emerging areas of research. Inputs are taken regularly from industry experts, eminent academicians, reports from agencies like NASSCOM from time to time.

#### **1.1.4 How are the following aspects ensured through curriculum design and development?**

- \* Employability
- \* Innovation
- \* Research

##### **Employability**

- Mini and main projects, industry internship programmes, etc. are introduced for employability of the students.
- Introduction of industry oriented elective courses, communication skills labs established as part of the curriculum enable further to increase the employability of the students.

##### **Innovation**

- Students are encouraged to undertake innovative projects as part of the assignments as and when the course work demands. An exclusive centre for innovation is set up to nurture the talents in this direction.
- Value-added programmes with industry support are conducted.
- An Innovation Lab is established in association with CTS to promote innovations among the students.

##### **Research**

- An exclusive R&D centre has been setup for promoting research among students and faculty.
- Students are involved in sponsored research programmes.
- Students are encouraged to undertake research oriented projects.



### **1.1.5 How does College ensure that the curriculum developed address the needs of the society and have relevance to the regional /national developmental needs?**

The College ensure that the curriculum developed address the needs of the society and have relevance to the regional/national developmental needs by taking inputs from all the stake holders in general and employers in particular.

### **1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?**

While restructuring the curriculum, AICTE guidelines and model course components are kept in view. Also care has been taken to be in tune with the affiliating university as it being a guiding and regulatory authority.

## **1.2 Academic Flexibility**

### **1.2.1 Give details on the following provisions with reference to academic flexibility**

- a. Core / Elective options
- b. Enrichment courses
- c. Courses offered in modular form
- d. Credit transfer and accumulation facility
- e. Lateral and vertical mobility within and across programmes and courses

#### **a. Core/Elective Options:**

Care has been taken to ensure the core content is incorporated into the curriculum. Apart from the core, flexibility is given to students to opt for pattern oriented electives beginning in the VI semester. Open electives have also been introduced where students across the disciplines can choose, depending on their interest.

#### **b. Enrichment Courses:**

The Institute is continuously introducing new courses to ensure that the qualifications of students are relevant and they get an education that combines industry-valued qualifications and the highest academic standards with flexible modes of learning. The Institute has the professional expertise which complements the infrastructure, library resources and state-of-art laboratories to introduce career-oriented courses which have demand and scope to meet the growing



research and industry needs. A new course by name “Selected Topics in Strategic Electronics“ in ECE department of ME (Communication Engineering) in consultation with DLRL, DRDO, Hyderabad is introduced in autonomous structure.

Pre-curriculum development workshops and post curriculum development orientation programmes for faculty are conducted. Conferences/ Seminars/ Workshops/ guest lectures are being organized beyond the curriculum to enrich the knowledge levels of the students

- Institute is organising live lectures through QEEE
- Students are encouraged to participate in the technical competitions
- Conferences/ Seminars/ Workshops/ guest lectures are being organized beyond the curriculum to enrich the knowledge levels of the students

#### **c. Courses offered in modular form:**

Though the courses offered may not strictly conform to modular mode, the curriculum is so designed that the basic requirements for the award of the degree satisfy the requisite number of courses under a particular stream. The syllabus for every course (core/elective) is divided into five(5) units. The concern faculty will prepare the lesson plan and delivers the lectures.

#### **d. Credit Transfer and accumulation facility**

As approved in the Academic Council and Governing Body, Credit transfer within the college does not exist. However, for students getting admitted into the programmes after first year from outside institutes, credit transfers are considered on the advice of the affiliating university and state council of higher education. The transfer is facilitated as per the recommendations of BoS and approval of the University.

Credits get accumulated for a period of 8 years for the UG student and 4 years for the PG pursuant as per the existing regulations. The learner is provided with an opportunity to get qualified in the respective programmes when one fails to do within the stipulated time frame of 4 and 2 years, respectively.

#### **e. Lateral and vertical mobility within and across programmes and courses:**

No lateral mobility exists as per the norms of state council of higher education as the programmes are decided at the time of admission itself. Regulated vertical mobility is permitted within the programmes in accordance with promotion rules.



**1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

Development of courses specially targeting international students is under consideration. However, international students were admitted earlier into CBIT as per the guidelines of the affiliating university and the State Government.

**1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.**

Dual degree and twinning programmes are under consideration. However, a twinning program by name "B.E (Honours) in Electronics and Telecommunications Engineering" was offered in the academic years of 2002-2003 to 2004-2005 (3 batches only) in association with Dudley College of Engineering, Wolverhampton University, Wolverhampton, UK.

**1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

The college has been established under self-financing category offering 9 UG and 11 PG programmes. The admission policy and fee structure are governed by the State Government and its regulatory authority state council of higher education. The institute follows the guidelines of AICTE and the affiliating university for teacher qualifications, pay scales and other service matters. All the programmes offered by the institution are self-financed.

**1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?**

The College has adopted the Choice Based Credit System (CBCS). All the programmes offered by the institution are covered under the system w.e.f. 2016-17.

**1.2.6 What percentage of programmes offered by the College follows:**

- \* Annual system
- \* Semester system
- \* Trimester system

All programmes offered by the College are under Semester system.



### 1.2.7 What is the policy of the College to promote inter-disciplinary programmes? Name the programmes and what is the outcome?

Inter-disciplinary programmes are under consideration. However, the college has initiated interdisciplinary courses in its programmes as electives. The choice of such inter-disciplinary programmes is based on the suggestions of the affiliating university, State Government, and stakeholders like industry, alumni, etc.

## 1.3 Curriculum Enrichment

### 1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented/knowledge intensive and meeting the emerging needs of students and other stakeholders?

The curriculum of the College is reviewed for making it socially relevant and/or job oriented/knowledge intensive and meeting the emerging needs of students, industry and other stakeholders. The review takes place once in four years for all UG, three years for MCA and two years for ME/ MTech/ MBA programmes.

### 1.3.2 How many new programmes have been introduced at UG and PG level during the last four years? Mention details.

- \* Inter-disciplinary
- \* programmes in emerging areas

Four new programmes have been introduced at PG level in the emerging areas during the last four years. The details are given below:

S. No.	Name of the Department	Name of the PG (M.Tech) programme	Year of Commencement	Justification
1.	ECE	ME (Embedded Systems and VLSI)	2012-13	<ul style="list-style-type: none"><li>• High market demand and employability</li><li>• Good opportunities for higher studies and Research</li></ul>
2.	Mechanical	ME(Thermal Engineering)	2012-13	<ul style="list-style-type: none"><li>• High market demand and employability</li><li>• Good opportunities for higher studies and Research</li></ul>
3.	Civil	ME(Earthquake Engineering)	2013-14	<ul style="list-style-type: none"><li>• Need of the Nation</li><li>• Scope for Research</li><li>• Good opportunities for higher studies and Research</li></ul>



4.	IT	MTech(Computer Networks and Information Security)	2013-14	<ul style="list-style-type: none"> <li>• High market demand and employability</li> <li>• Good opportunities for higher studies and Research</li> </ul>
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### 1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

The college has become autonomous from the academic year 2013-14 and has independent curriculum and regulations. To formulate and fine tune these students and faculty, feedbacks are taken and relevant changes have been discussed in the BoS, Common Board of Studies, Academic Council and Governing Body. The observations and recommendations of industry, academia and alumni helped in fine tuning the same for quality and feasibility.

First major revision of the curriculum for all UG and PG programmes has taken place in 2013-14 based on the feedback from industry, students, exit surveys, and the other stakeholders. While revising the curriculum, the need to catch-up with the national and international accreditation norms is examined and all the programmes are restructured in accordance with the requirement of the outcome based education. In the process, due care is taken to focus on program specific criteria. The new curriculum is made more learner centric infusing the concept of life-long learning. The credit structure is designed in-tune with the Affiliating University and in accordance with the apex regulatory bodies like the AICTE.

S.No	Department	Percentage of courses underwent a major syllabus revision
1	CED	10%
2	CSE	10%
3	EEE	48%
4	ECE	20%
5	MED	20%
6	PRODUCTION	30%
6	IT	36%
7	CHEMICAL	25%
8	BIO-TECH	20%
9	MBA	30%
10	MCA	20%





### **1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?**

The following value-added courses are offered by the College and they are framed as mandatory such that all the students have access to them:

- Human Values and Professional Ethics
- Soft Skills and Employability Enhancement
- Environmental Studies

### **1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

With the help of TEQIP, skill development programs are conducted by Training and Placement office. The institution is also associated with "TASK" which is governed by State 'Government of Telangana'.

## **1.4 Feedback System**

### **1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?**

Feed back on curriculum is collected from students in different ways.

- Through class committee meetings held at departmental level on specific courses.
- Through meetings of the class representatives on the regulations and related implementation issues.
- Through interactions with the students of different abilities at HoD/faculty level
- From Alumni through interactions
- Graduate -survey
- Course-end survey

The feedback is analyzed and used to re-orient the courses and regulations if necessary in the subsequent revisions.



**1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.**

Experts from academia from premier institutions are identified and nominated as members of either Board of Studies or Academic Council or BoG. Workshops/ Seminars/ Conferences and forum discussions held during the four year period have been helping in progressive revision of the curriculum. Feedback from the national and international faculty is collected as and when they visit the institution on academic assignments or interactive promotional sessions. Webinars and online forum discussions are now on the way to enhance knowledge intensity. The feedback thus collected is used in designing and/or updating the curricula.

**1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.**

Feedback from alumni is collected at department level from time to time. Placement cell gets engaged actively in collecting the feedback from the employers as and when they visit the campus for placements and also through regular interactions online. Indirect feedback from the community is collected through reports of various surveys by national and regional agencies and from TEQIP 100 percent survey.

Feedback has been helpful in introducing

- multi-disciplinary electives
- Professional ethics, IPR, Environmental studies
- Subject wise attendance criteria

**1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?**

- The Academic Council and the Governing Body reviews the performance periodically on the academic front and make suggestions for improvement and the sustenance of the quality.
- Feedback on the performance of our graduates already placed and new recruits from industry when they visit for campus placements.
- The chairpersons of various Board of Studies are in regular contact with the domain specific experts and also others on the statutory bodies like BoS and Academic Council.
- The college takes up internal and external academic audit.



## **CRITERION II: TEACHING-LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

#### **2.1.1 How does the college ensure publicity and transparency in the admission process?**

The College ensures the publicity and transparency in the admission process as shown below:

##### **Publicity:**

The admission procedure and college information related to UG and PG programmes is circulated among all the departments and is also available on the institute website. All the stake holders of the college such as Management, Faculty, Alumni, Industry, Students and Parents contribute by giving publicity directly or indirectly about the institute. The campus recruitments in the previous years also served as a means of publicity. The popularity of the college among the prospective students and their parents can be observed from the fact that students with best EAMCET ranks join the college every year. Several programmes conducted for faculty and students like conferences, workshops, and faculty development programmes, cultural and technical fests like SHRUTHI and SUDHEE also serve as a source of publicity. Achievements of the college and programmes conducted from time to time are covered through electronic and print media. The staff and student busses ply daily in several routes covering various locations also serve as a means of publicity in the society.

##### **Transparency:**

Admission of students into various programmes in the college is made purely based on the merit secured in common entrance tests like EAMCET, AIEEE / IIT-JEE MAINS for UG programmes and GATE, PGECET and ICET for PG programmes conducted by the State and Central Government. All the rules and regulations prescribed by the competent authorities are followed in admission process. Hence the admission processes for both UG and PG programmes are transparent.

#### **2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i)merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv)common test conducted by state agencies and national agencies (v) others followed by the College?**

The admission process followed in the college is through two categories namely Category-A (Convener quota) and Category-B



(Management/NRI quota) as per the norms prescribed by the State Government.

**Category-A (Convener quota):**

In category-A, 70% of the seats are filled through convener quota following reservation norms specified by the government.

**UG:** Admissions into UG programmes in the college are made by Convener, EAMCET, who is nominated by the State Government. The admissions are based on the statewide ranks obtained by students in EAMCET entrance exam.

**PG:** Admissions into PG programmes are based on the merit of candidates in GATE, PGECET and ICET conducted by TSCHE. These admissions are made by Convener, PG Admissions.

**Category-B (Management/NRI quota):**

In Category-B, out of 30% of the seats, not more than 15% seats are allocated to NRI/NRI sponsored category.

Regarding these admissions, a notification will be published by the institute in leading newspapers and the same is notified on the college website and notice board. Based on this, students apply to the college in the prescribed format. After scrutinizing the applications program wise merit list will be prepared and displayed on the college website and notice board.

**UG:** The admissions though based on merit, the merit criteria is decided by the State Government from time to time like, AIEEE/IIT JEE mains, EAMCET ranks, Intermediate Public Examinations (IPE) marks.

**PG:** The admissions are based on merit: the order of merit is GATE score, PGECET ranks for ME/M.Tech, ICET ranks for MBA & MCA and the left over seats, if any are filled on the basis of UG marks.

**2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

The admissions process is decided by the State Government. Hence the institute does not have any review process. All the A-category (70%) seats are filled by the convener through a common web portal managed by the State Council of Higher Education. B-category



(30%) seats are filled by the institute management through institute's web portal.

#### 2.1.4 What are the strategies adopted to increase / improve access to students belonging to the following categories

- SC/ST
  - OBC
  - Women
  - Different categories of persons with disabilities
  - Economically weaker sections
  - Outstanding achievers in sports and extracurricular activities
- **SC/ST:** Reservations for admission as per the State Government norms and financial assistance like Fee Reimbursement and scholarship.
  - **OBC:** Reservations for admission as per the State Government norms and financial assistance like Fee Reimbursement and scholarship.
  - **Women:** 33.3% reservation in admissions.
  - **Different categories of persons with disabilities:** Reservation in admissions.
  - **Economically weaker sections:** Fee Reimbursement and scholarship by the Government.
  - **Outstanding achievers in sports and extracurricular activities:** Outstanding achievers in sports and extracurricular activities are encouraged and motivated by recognizing, presenting awards on institute sports and cultural day celebrations and financial assistance for needy students.

#### 2.1.5 Furnish the number of students admitted in the College in the last four academic years.

**U.G:**

Categories	2015-16		2014-15		2013-14		2012-13	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	270	180	258	175	245	156	229	142
ST	125	66	123	59	111	55	100	46
OBC	981	545	925	490	817	444	700	419
General	1201	1584	1072	741	1073	710	861	621
Others	-	-	-	-	-	-	-	-



**P.G:**

Categories	2015-16		2014-15		2013-14		2012-13	
	M	F	M	F	M	F	M	F
SC	39	32	49	32	50	36	46	26
ST	12	7	12	6	20	5	18	9
OBC	170	124	187	119	196	110	187	89
General	104	89	139	97	176	106	146	85
Others	-	-	-	-	-	-	-	-

**2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase/decrease.**

Admissions into UG programmes are done by two categories namely category-A and category-B.

Under category-A admissions are made by convener EAMCET appointed by State Government based on EAMCET Ranks, hence number of applications received are not known to the college.

Under category-B admissions are made based on AIEEE/IIT JEE Mains ranks. For this process, the college management releases notification of admission as an advertisement in leading Newspapers and college website. The details are shown below.

Academic Year (1)	Number of applications( 2)	Number of students admitted( 3)	Demand Ratio (col.3:col.2)
<b>UG</b>			
2012-13	601	252	1:2
2013-14	816	277	1:3
2014-15	1410	266	1:5
2015-16	1440	294	1:5
<b>PG</b>			
<b>M.E/M.Tech</b>			
2012-13	126	44	1:3
2013-14	72	38	1:2
2014-15	73	34	1:2
2015-16	22	17	1:1
<b>MBA</b>			



2012-13	54	36	1:2
2013-14	73	36	1:2
2014-15	80	36	1:2
2015-16	92	36	1:3
<b>MCA</b>			
2012-13	23	18	1:1
2013-14	8	04	1:2
2014-15	15	07	1:2
2015-16	20	12	1:2

From the above table, trends indicate that the demand for UG programs, MBA and MCA is increasing with steady progress of the institute in all aspects.

The trends also indicate that the demand ratio for ME/M.Tech is decreasing due to better prospects with UG qualification and notifications for government jobs.

**2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.**

There is no instance of discontinuing any programme during last four years in the college.

**2.2 Catering to Student Diversity**

**2.2.1 Does the College organize orientation / induction programme for freshers? If yes, give details of the duration of programme, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

The college organizes the Orientation Programme for freshers on the first day of the commencement of the first semester. The duration of this programme is one day in which all rules & regulations, mechanisms, policies of the institute regarding Academic and Examinations like class work, conduct of examinations, attendance, disciplinary measures, etc. are explained. The management committee members, head of the institution, HoDs and section in charges are invited to give instructions to the students.

**2.2.2 Does the College have a mechanism through which the “differential requirements of student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**



The College has a mechanism through which the “differential requirements of the student population” are analyzed after admission and before the commencement of classes. As part of this mechanism the students population is categorized based on merit, medium of instruction in their school education, rural background, lateral entry admission, communication skills etc., are taken into consideration and the same are addressed by organizing remedial classes, English proficiency sessions, mentoring, counseling by faculty, debates, group discussions, providing opportunity in organizing several student orientated activities, etc.

**2.2.3 Does the College provide bridge / Remedial / add - on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

The college provides bridge courses for lateral entry students after the regular college hours.

Remedial classes for slow learners are conducted after the regular college hours and Saturdays.

**2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students; - student from disadvantaged sections of society, economically disadvantaged, Physically challenged and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students.**

The academic performance of the students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who do not seem to cope up with the pace of learning and sometimes seem to be at risk of drop out are identified by the faculty during the classroom interactions. Such students are given personal counseling by the concern teacher on regular base. Evaluation is done through mid examinations, assignments, end semester examinations, etc. The following table reveals the information about few students who discontinued their studies in the college in the last six years.

YEAR	B.E/B.Tech	M.E/M.Tech	MBA	MCA
2010-2011	0	3	3	3
2011-2012	4	4	1	1
2012-2013	2	3	2	4
2013-2014	1	4	7	0
2014-2015	9	0	1	0
2015-2016	8	0	0	0





<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>14</b>	<b>8</b>
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Following strategies are adopted for improving academic performance of these students:

- Encouraging students to participate in classroom interactions
- Focused tutorial classes, personal guidance and small group class presentation
- Presenting summary of the lecture session
- Counseling to the needy students
- Repetition & revision of a topic
- Using simple relevant teaching aids like audio/video presentations
- Practical demonstration, field trips/industrial visits are arranged
- Remedial classes for weak students

### **2.2.5 How does the institution identify and respond to the learning needs of advanced learners?**

The institute identifies educational/learning needs of advanced learners through various ways like classroom interactions, assignments, mid examinations, end semester examinations, seminars, student counseling, etc. The institute responds to the needs of advanced learners as per their needs like offering advanced elective courses, providing infrastructure facilities to the innovative projects and sending for internship to the industries and higher learning institutes.

### **2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?**

Appropriate measures are taken by the college for the differently abled students based on their needs/demands. The college provides the required basic facilities and amenities related to administrative office, library and information centre, academic and examination cell, canteen and toilets on the ground floor. All the buildings in the campus are having ramps, elevators for the comfort and convenience of differently abled students. Also wheel chairs are available for needy students. Scribes are provided for writing the examinations, if required by the candidates.

## **2.3 Teaching-Learning Process**

### **2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)**



The college prepares and follows an academic calendar every year. It includes various things like commencement & end of each semester, schedule of mid & end semester examinations, vacations schedules, schedules of SUDHEE & SHRUTHI, etc. The same is widely publicized and circulated among all faculty, staff and students. It is also displayed on the institute web site & all the notice boards of the institute.

Before the commencement of the each semester, the lesson plan for each course is prepared by concerned faculty and is included in the attendance register and course file. The same is also provided to the students of the course.

Before evaluation, a blue print is prepared and followed strictly during evaluation.

**2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

The college prepares and follows an academic calendar every year. It includes various things like commencement of classes, last day of instruction, schedule of class tests & end semester examinations, vacations schedules, schedules of SUDHEE & SHRUTHI, etc. The same is widely publicized and circulated among all faculty, staff and students. It is also displayed on the institute web site & all the notice boards of the institute.

Before the commencement of the each semester, the lesson plan for each course is prepared by concerned faculty and is included in the attendance register and course file. The same is also provided to the students of the course.

Before evaluation, a blue print is prepared and followed strictly during evaluation.

**2.3.3 What are the courses, which predominantly follow the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?**

All the theory courses predominantly follow the lecture method. However, some the following innovative teaching approaches / methods are also followed:

- Interactive learning
- Computer-assisted audio-visual learning
- Role plays
- Brain storming sessions
- Rapid fire Questions



- Quiz sessions
- Project-based learning
- Departmental seminars
- Use of web resources
- Digital library
- Guest lectures

**2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

The institute provides various structures and systems for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students.

Well-equipped labs with skilled technical supporting staff, high end computing facilities with high band width internet and Wi-Fi facility are provided to the students. The class room teaching methodology is designed in more interactive way like rapid fire questions, quiz, role model, etc.

Collaborative learning is encouraged by adopting methods like ACL(Active Collaborative Learning), group assignment, group presentations, group projects etc.

For independent learning, the institute provides the learning facilities like E-classrooms, well-stocked library with reading room and internet connection to make learning effective. The digital library of institute provides more online material including e-books, journals, and conference proceedings. The library also provides online video lectures through NPTEL, MOOCS, etc.

**2.3.5 What is the College policy on inviting experts / people of eminence to provide lectures / seminars for students?**

The college identifies the gaps between existing curriculum and dynamically changing industry needs based on the feedback from the stake holders. Experts / Eminent professionals in the respective areas are invited to deliver lectures / seminars for the benefit of the students.

**2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.**



The latest teaching-learning technologies and facilities are available and are used by the faculty for effective teaching. Some of them are listed below:

- e-learning resources from National Programme on Technology Enhanced Learning (NPTEL)
- Massive Open Online Courses (MOOCs)
- Use of charts and models
- Use of audio - video presentations
- Use of e-class room
- Every class room is equipped with LCD projector and internet
- Webinars
- Quality Enhancement in Engineering Education (QEEE)

**2.3.7 Is there a provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.**

**Academic, Personal and Psycho-Social Support & Guidance Services:**

The college provides counseling and general study support for all students. The faculty members of the college engage both in academic and personal counseling of students and identify students with , low attendance and poor marks in internal and final examinations etc., and give them proper guidance and support to cope and excel. Slow learners are identified through classroom interactions and personal counseling in the classroom by the teachers.

Tutorial/remedial classes are taken up which are beneficial especially for those students who need personal attention. Students are encouraged to interact with the teachers for their individual needs and problems in the class itself.

**2.3.8 Are there any innovative teaching approaches/methods/ practices adopted/put to use by the faculty during the last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

**Some of the innovative teaching approaches/methods are:**

- Interactive learning
- Computer-assisted audio-visual learning
- Project-based learning



- Departmental seminars
- Use of web resources
- Digital library
- Guest lectures

#### **Efforts by the institution:**

Computing facilities with high end configuration and high band-width internet connection are provided in all the departments, library and all computer laboratories. The campus is also Wi-Fi enabled. The college has e-class room and well-equipped seminar halls for each department.

#### **The impact on student learning:**

Teaching through the above mentioned multiple innovative ways helps the students to make teaching and learning more effective and justifiable. Use of LCD projectors and internet has been increased in all the departments in the last four years and hence students could grasp the content in better way with more clarity resulting better performance in the examinations and campus placements.

### **2.3.9 How does the College create a culture of instilling and nurturing creativity and scientific temper among the learners?**

The College takes initiations in developing creativity and scientific temper among the students by encouraging them to participate in paper presentations in conferences & seminars, by providing registration fee, TA and DA to the students. The college also encourages innovative projects, sponsored research & consultancy projects, design of new experiments in the labs, etc. The college also has innovation club, robotics club, IEEE student chapter, ISTE student chapter, etc., to encourage creativity and scientific temper among the learners

### **2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?**

- \* Number of projects executed within the College
- \* Names of external institutions associated with the College for student project work
- \* Role of the faculty in facilitating such projects

The College considers student projects a mandatory part of the learning for all the programmes. These projects are carried out in the final year for UG & PG.



In addition to this, there are mini projects in each semester of 2nd and 3rd years of IT programme.

Academic Year	Name of the programme ( UG/PG)	No of projects carried out in association with an institution of higher learning or industry	No of projects carried out within the college
2015-16	UG	124	264
	PG	27	140
2014-15	UG	67	261
	PG	25	145
2013-14	UG	89	210
	PG	24	128
2012-13	UG	79	127
	PG	26	128

**\* Names of external institutions associated with the College for student project work**

- IIIT, Hyderabad for M.E. (Earthquake Engg) projects
- RCI, BHEL
- DRDO, RCI, ISRO, SAC, Osmania University, IIIT Hyderabad
- BDL,DRDL,DLRL,BHEL,RCI, Techumsche, RR Industries, Midhani, DMRL, NSTL, Steel plant, BHPV
- Dr. Reddy's laboratories
- Bits pilani hyderabad campus
- Nfc- nuclear fuel complex
- Vizag Steel plant
- Aurobindo Pharma
- Mineral processing division, BARC
- Kesoram cement factory
- IIT GANDHINAGAR
- Jindal steel works
- Covalent Laboratories Pvt. Ltd.
- IOCL, Mathura
- Coramandal International Fertilizer Ltd., Vishakhapatnam.
- DRL,CTO, Jeedimetla
- BASF,Maharashtra.
- TATA STEEL, Jamshedpur
- HPCL,Mumbai



- ICT, Mumbai,
- Orient Cement, Devapur, Adilabad
- ONGC, Academy KDMIPE Campus, Kaulagarh, Dehradun
- Atomic Mineral Division, Hyderabad
- COLLABNG

\* **Role of the faculty in facilitating such projects**

Faculty play a supervisory role to a group of students, and help them in choosing a project or suggest one in his mind or advise to participate in an ongoing research or consultancy project if it is being carried out within the institution. If the project is carried out in association with an institution of higher learning or industry, the faculty coordinates with the other institutional member in the progress of the project.

**2.3.11 What efforts are made to facilitate the faculty in learning/ handling computer-aided teaching/learning materials? What are the facilities available in the College for such efforts?**

Computer skill development programmes have been organized for faculty members to acquaint themselves with the use of computer and audio-visual aids to improve the teaching-learning process. Corporate training programs like Mission10X and FDPs are also organized.

Facilities like Computers, Laptops, LCDs, Smart Board, Document Camera, High Speed internet, Wi-Fi are made available to the faculty.

**2.3.12 Does the College have a mechanism for evaluation of teachers by the students/alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?**

- Quality of teaching-learning is monitored by the Principal, and HoDs of the concerned departments
- The institute takes subject wise online feedback from students regarding quality of teaching-learning by various parameters which helps the faculty in analyzing and improving the quality of teaching further
- The issues are discussed in the department level meetings
- Principal and HoDs also take Feedback while interacting with the students and take necessary steps to improve the teaching quality
- After analyzing the results of mid-exams, end semester



examinations and outcome of the placements, proper quality improvement measures are initiated

**2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.**

The College prepares an academic calendar for each academic year. The curriculum prescribed is completed by the faculty members within the time frame phase by phase, such as first and second class tests and end semester examinations. However, extra classes both in theory and practicals are conducted by the faculty members for the completion of the course content within the time frame.

The classes lost due to unexpected bandhs and holidays are compensated by arranging classes on next working Saturdays. Sometimes some of the faculty also takes extra classes on Saturdays/sundays and/or evenings to cover the syllabus in time.

Most of the times the first year admissions are delayed due to EAMCET counseling hampered by court cases, B-category notification, etc. The loss in class work is compensated by taking extra classes on Saturdays and during vacation.

There was lot of disturbance due to Telangana agitation in the combined state of Andhra Pradesh during 2013-14 and due to this the institute remained closed for about one month. To save the academic year extra classes, both in theory and lab, for about two weeks during summer vacation.

**2.3.14 How are library resources used to augment the teaching-learning process?**

The library has adequate number of text books with multiple volumes, reference books, journals, magazines, newspapers, display boards, reading room, computers with internet connection, uninterrupted power back-up facility and reprographic facility. The library remains open from 9.30 a.m. to 7.00 p.m. on all working days. The question papers of university/end semester examinations of previous years are preserved in the library for helping the students in preparation for examinations. Both teachers and students use them for teaching-learning.

The library has Online Public Access Catalogue (OPAC) which can be accessed from any of the computer connected in the campus LAN to know the status of the required books. It has an Electronic Resource Management package for e-journals searching tool to search articles in multiple databases. For remote access, Kimbus software a





cloud computing technology has been used. An exclusive Server with Content Management Software for e-learning is available. This facility enables the staff and students to access e-learning resources such as NPTEL Lectures, MIT Lectures, and QEEE etc. Library & Information centre is part of Resources sharing Networks such as NLIST-INFLIBNET and AICTE-INDEST.

There are also departmental libraries which are used by the students and teachers of the respective departments for enhancing teaching-learning process.

### **2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.**

Feedback from students is collected on teaching-learning process and faculty through questionnaires, on the institute's web portal. This feedback can be accessed by individual teachers for further improvement. However, Principal discusses the same with the concerned faculty and HOD, and suggests improvements wherever necessary.

Principal and HoDs also take Feedback while interacting with the students and take necessary steps to improve the teaching quality.

After analyzing the results of mid-exams, end semester examinations and outcome of the placements, proper quality improvement measures are initiated.

Feedback from the students is also taken on the classroom environments and the corrective measures initiated by the Head of the Institution.

## **2.4 Teacher Quality**

### **2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?**

The faculty strength of the College is 324. All the positions are filled against the sanctioned strength. Fourteen faculty are from outside the State.

### **2.4.2 How are the members of the faculty selected?**

The regular faculty members in all positions are selected by staff selection committee as per the guidelines of OU/AICTE/UGC through open advertisement. Also the institute promotes internal



eligible faculty members through CAS (Career Advancement Scheme) as per the norms.

### 2.4.3 Furnish details of the faculty

#### Details of Qualifications of Teachers of the College

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	23	03	19	06	15	08	74
M.Phil.	-	-	-	-	-	-	-
PG	02	01	16	04	51	42	116
Temporary teachers							
Ph.D.	10	01	03	02	02	08	26
M.Phil.	-	-	-	-	-	01	01
PG	-	-	-	-	55	38	93
Part-time teachers							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

### 2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?

The percentage of the teachers have completed UGC-NET is 1% and the percentage of teachers with PG as highest qualification is 99.69%.

### 2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.

S.No.	Department	Sanctioned Strength	% of faculty who are product of the same College	% of faculty from other College within the State	% of faculty from other States	% of faculty from abroad
1	Civil Engg.	38	0	100	0	0
2	EEE	28	0	100	0	0
3	ECE	43	2.5	95	2.5	0



4	Mechanical Engg.	59	14	81	5	0
5	CSE	49	8	88	4	0
6	Information Technology	20	10	80	10	0
7	Chemical Engg.	12	8	92	0	0
8	Bio-Technology	12	0	92	8	0
9	Mathematics	10	0	100	0	0
10	English	8	0	100	0	0
11	Physics	7	0	86	14	0
12	Chemistry	7	0	86	14	0
13	MBA	16	6	94	0	0
14	MCA	12	17	83	0	0
15	Library	1	0	100	0	0
16	Physical Education	2	0	100	0	0
<b>Total s</b>		<b>324</b>	<b>6</b>	<b>90</b>	<b>4</b>	<b>0</b>

**2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?**

Yes, the College has the required number of qualified and competent teachers to handle all the courses for all departments

**2.4.7 How many visiting Professors are on the rolls of the College?**

There are two visiting Professors on the rolls of the College.

**2.4.8 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, nomination to national/international conferences/Seminars, in-service training, organizing national/ international conferences etc.)**

The efforts of the management and administration of the institute for recharging the teachers are as follows:

**Research grants:**

The college has the policy in its budget for providing research grants. The teachers with minor research projects have freedom to



spend research grants as per the directives of the research funding agency like UGC, DST etc.

**Study leave:**

The institute gives permission for higher study like Ph.D/M.E/M.Tech without hampering the normal duties and class work, etc.

**Nomination to national/ international conferences/Seminars:**

The teachers are nominated to national/ international conferences/Seminars and provided with infrastructure facilities for writing research publications and registration fee for publication of the papers at International/National journals and conferences. The faculty are also provided with TA/DA and a paid leave for presentation of the papers.

**In-service training:**

The institute deputed teachers to other national institutions, specialized programmes and industrial engagement for gaining experience by paying registration/course/programme fee and TA/DA. In addition teachers are also given paid leave to attend the same.

**Organizing national/international conferences:**

The institute motivates its faculty in organizing national/international conferences by providing financial assistance and infrastructural facilities.

**2.4.9 Give the number of faculty who received awards / recognitions for excellence in teaching at the state, national and international level during the last four years.**

The number of faculty who received awards/recognition at the state, national and international level for excellence in teaching during the last four years is eight.

Many other faculty members have been recognized for excellence in teaching during the last five years. Earlier college used to present best teacher award to the faculty for excellence in academics.

**2.4.10 Provide the number of faculty who have undergone staff development programmes during the last four years. (Add any other programme if necessary)**



Academic Staff Development programmes	Number of Faculty Nominated				Total
	YEAR's	2012-13	2013-14	2014-15	
Refresher courses	8	34	15	9	66
HRD programmes	6	27	17	21	71
Orientation Programmes	24	34	7	9	74
Staff training conducted by the university	-	3	4	12	19
Staff training conducted by other institutions	-	2	5	10	17
Summer / winter schools, workshops, etc.	-	54	37	44	135

#### 2.4.11 What percentage of the faculty have

- \* been invited as resource persons in Workshops /Seminars /Conferences organized by external professional agencies
- \* participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies
- \* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies
- \* teaching experience in other universities / national institutions and others
- \* industrial engagement
- \* international experience in teaching

The details pertaining to the above is furnished in the following table:

Year	Percentage of faculty for the following categories				
	Conference s/ Seminars/ Workshops attended	STTP/Refresher s courses / FDPs/ Orientation courses attended	Conferences/ Seminars/ Workshops organized	STTP/Refresher s courses / FDPs/ Orientation courses organized	Guest lecturers delivered
2011-12	27.01	26.78	14.72	2.11	0.50
2012-13	50.64	22.00	20.11	0.39	0.09
2013-14	54.51	25.32	19.88	3.33	0.15
2014-15	51.13	18.90	17.15	2.74	0.11
2015-16	44.74	19.37	37.15	4.25	0.09



**2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?**

- \* Curricular Development
- \* Teaching-learning methods
- \* Examination reforms
- \* Content / knowledge management
- \* Any other (please specify)

\* **Curricular Development**

Once in a year

\* **Teaching-learning methods**

Once in a semester

\* **Examination reforms**

Once in a year

\* **Content / knowledge management**

At least one workshop/seminar per department is organized every year. At least one guest lecture per department is organized in every semester.

\* **Any other (please specify)**

At least five national and/or international conferences are organized every year.

**2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?**

**Some of the innovative teaching approaches/methods are:**

- Interactive learning
- Computer-assisted audio-visual learning
- Project-based learning
- Departmental seminars
- Use of web resources
- Digital library
- Guest lectures
- Role model plays
- Rapid fire questions

**2.4.14 Does the College have a mechanism to encourage**

- \* Mobility of faculty between institutions for teaching?
- \* Faculty exchange programmes with national and international bodies?

If yes, how have these schemes helped in enriching quality of the faculty?



### **Mobility of faculty between institutions for teaching:**

Some of the faculty members from CBIT have been moved to MGIT. MGIT is another institution run by the same management.

### **Faculty exchange programmes with national and international bodies**

Exchange programmes with national and international bodies is under consideration.

## **2.5 Evaluation Process and Reforms**

### **2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?**

The Institute prepares and documents its evaluation processes. At the beginning of the semester, HoDs inform the faculty members and the students about evaluation process in detail. The same is also notified on the college website for the information of all stakeholders.

### **2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?**

**Some of the major evaluation reforms of the college are as follows.**

- Freedom is given to faculty in evaluating assignments as part of internal continuous assessment
- Paper setting for end semester examinations is done by experts outside the college
- 50% of the end semester examination answer scripts are evaluated by the examiners from other institutions
- Practical internal evaluation is based in continuous evaluation.

College has implemented all the above mentioned reforms and they proved to be successful.

### **2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?**

Periodic internal evaluation on prescribed syllabus in case of theory and continuous evaluation of experiments in labs.



Based on the performance of students, slow-learners are identified and are provided with additional inputs. Apart from this, continuous monitoring and review is done and counseling is provided for improving the regularity and performance of the students.

#### **2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanisms strategized to ensure rigour of the internal assessment process?**

##### **UG:**

25% of marks for theory subjects and 33.33% of marks for labs are earmarked for continuous internal assessment.

Internal Evaluation: The 25 internal marks are awarded as follows:

- a) Two Tests - 20 marks. Weighted Average of 2 tests carries 20 marks.
- b) Assignment marks by giving any or combination of the following ways-5 marks:  
Assignment / Quiz / Term paper / Tutorial / Surprise test / Open book test / Seminar / Case study / Lab activity / Projects etc. as notified by the teacher at the beginning of the semester and distributed evenly over the entire semester.

##### **PG:**

25% of marks for theory subjects and 100% of marks for labs are earmarked for continuous internal assessment.

Internal Evaluation: The 25 internal marks are awarded as follows:

- a) Two Tests - 20 marks. Average of these 2 tests carries 20 marks.
- b) Assignment marks by giving any or combination of the following ways-5 marks:  
Assignment / Quiz / Term paper / Tutorial / Surprise test / Open book test / Seminar / Case study / Lab activity / Projects etc. as notified by the teacher at the beginning of the semester and distributed evenly over the entire semester

Choice Based Credit System(CBCS) has been followed from the academic year 2016-17 with increased weightage of 5% for continuous internal evaluation

##### **UG:**

30% of marks for theory subjects and 33.33% of marks for labs are earmarked for continuous internal assessment.

Internal Evaluation: The 30 internal marks are awarded as follows:

- a) Two Tests - 20 marks. Weighted Average of 2 tests carries 20 marks.





- b) Assignment marks by giving any or combination of the following ways-10 marks:

Assignment / Quiz / Term paper / Tutorial / Surprise test / Open book test / Seminar / Case study / Lab activity / Projects etc. as notified by the teacher at the beginning of the semester and distributed evenly over the entire semester.

**PG:**

30% of marks for theory subjects and 100% of marks for labs are earmarked for continuous internal assessment.

Internal Evaluation: The 30 internal marks are awarded as follows:

- a) Two Tests - 20 marks. Average of these 2 tests carries 20 marks.
- b) Assignment marks by giving any or combination of the following ways-10 marks:

Assignment / Quiz / Term paper / Tutorial / Surprise test / Open book test / Seminar / Case study / Lab activity / Projects etc. as notified by the teacher at the beginning of the semester and distributed evenly over the entire semester

**2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?**

The college conducts examinations as per the planned schedule of the academic calendar. Whenever there exists unforeseen circumstances, rescheduling is done for a single exam or more as close as possible to the declared schedule without significant disruption to the total academic calendar.

**2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of examination results e.g., website, SMS, email, etc.**

The College declares the examination results within 4 - 6 weeks from the day of last examination. The results are displayed on the college website and notice board of the college.

**2.5.7 Does the college have an integrated examination platform for the following processes?**

- \* Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- \* Examination process –Examination material management, logistics.



- \* Post examination process – attendance capture, OMR based exam result, auto processing, generic result processing and certification.

The college has an integrated software for the purpose of academic and examinations. The features of the software package are:

1. **Pre-Examination processes:** OMR generation, list generation, attendance sheet, online payment gateway for exam fee payment, seating plan, D-form generation etc.
2. **Examination Process** - Examination material like bar-coded OMR for main answer book.
3. **Post examination:** Attendance capture, OMR based exam result, auto processing, moderation, generic result processing and grade sheet printing etc.

#### **2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?**

The college cannot admit any Ph.D research scholars directly. However, the affiliating University has recognized Mechanical Engg., ECE and CSE departments of the institute as research centres and allot Ph.D scholars to the recognized supervisors.

#### **2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved process and functioning of the examination division/section?**

- \* A separate office of the Controller of Examinations is established with sufficient space with required infrastructural facilities along with the man-power.
- \* Two Additional Controllers of Examination are appointed to assist the Controller of Examination in effectively organizing the process until the results are declared.
- \* Paper setters are identified and communicated well in advance so that the examination process will go smoothly according to schedule.
- \* A stand-by question paper is always kept ready in case of unexpected delays.
- \* A process of coding and decoding is introduced to maintain confidentiality until the results are finalized.



- \* Candidates detained due to shortage of attendance are informed in advance so that the planning for seating in examination goes smoothly.
- \* All the internal marks are collected before the start of the first examination to avoid scrambling at the time of announcement of results.

#### **2.5.10 What is the mechanism for redressal of grievances with reference to evaluation?**

Teachers of the concerned departments clarify any issue raised by students regarding evaluation of mid examinations. Board of Studies Chairperson is responsible for grievances with reference to the evaluation of end semester examinations.

### **2.6. Student Performance and Learning Outcomes**

#### **2.6.1 Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?**

The college stated learning outcomes which are expressed in the Vision and Mission Statement of the college. The college also stated its Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs) of all its programs and published in the college website and also by displaying boards in laboratories and at prominent places. These are discussed in departmental meetings and approved in Board of Studies (BoS) meetings.

Students and staff are made aware of these through various meetings, classroom teaching, lab experiment, interaction sessions, and through various co-curricular and extra-curricular activities organized by the college.

#### **2.6.2 How does the institution monitor and ensure the achievement of learning outcomes?**

Teaching, learning and evaluation processes are submitted by the faculty for each subject at the beginning of the semester and the same are displayed on the college website. Periodic internal evaluation on apportioned syllabus in case of theory and continuous internal evaluation in labs.

#### **2.6.3 How does the institution collect and analyse data on student learning outcomes and use it for overcoming barriers of**



## learning?

### Collection of data:

1. A course end survey is made in which a questionnaire is prepared on topics in different units of the syllabus of each subject and the opinions of the students are collected with respect to the level of their understanding of each topic.
2. A graduate survey is conducted at the end of the final year to assess the level of understanding of the student on all the subjects in the curriculum, teaching methods, etc.,

### Analysis of data:

The departmental advisory committee analyses the above data and sends its recommendations to BoS for modification of learning outcomes, if necessary.

## 2.6.4 Give Programme-wise details of the pass percentage and completion rate of students.

### Programme wise Result Analysis (2011-2012 to 2015-2016)

#### Pass Percentage

S. No	Course	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
<b>Under Graduation</b>						
1	B.E (Civil)	89	92	87	93	93
2	B.E (CSE)	97	93	92	98	98
3	B.E (EEE)	89	95	97	99	100
4	B.E (ECE)	93	96	99	98	97
5	B.E (Mechanical)	100	94	84	94	99
6	B.E (IT)	91	94	89	93	98.18
7	B.E (Production)	85	86	83	91	96.23
8	B.Tech (Chemical)	94	91	71	92	87.5
9	B.Tech (Bio-Tech)	93	88	77	90	92.25
<b>Post Graduation</b>						
1	M.E(Civil)Structural Engg.	46	45	48	52	-
2	M.E(Civil)Earthquake Engg.	-	-	-	40	56
3	M.Tech(CSE)	67	86	83	80	70
4	M.Tech(IT)-Computer Network and Information System	-	-	-	80	100
5	M.E(ECE) Communication Engg.	67	78	94	89	69
6	M.E(ECE) Embedded System and VLSI	-	-	78	94	92
7	M.E(Mech)-Thermal Engg.	-	-	88	92	92



8	M.E(Mech)-CAD/CAM	20	70	80	74	92
9	M.E(EEE) Power Electronics	67	61	72	81	78
10	MBA	100	90	96	79	87
11	MCA	88	93	95	88	88



### **CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION**

#### **3.1 Promotion of Research**

##### **3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

The Institute has a Research Committee to monitor and address the issues of research. The composition of the committee is as follows.

Research Committee (RC) is comprised of Dean R&D and senior faculty members of all the departments nominated by the principal. The aim of the Committee is to encourage and promote research among the faculty and students.

##### **A few recommendations made by the committee are:**

- To support faculty and student research projects financially
- To initiate and promote multi-disciplinary research collaborations

##### **The impact of recommendations of the research committee are:**

- Considerable increase in number of publications in peer-reviewed journals and conferences
- The sponsored research activity is picking up.
- AICTE granted six MODROBS projects
- Sixteen research projects were granted by external funding agencies like UGC, AICTE, DST, DRDO and ISRO
- UGC granted two minor research projects and one research award
- Fourteen in-house research projects were granted
- Utilization certificates and projects completion reports are being submitted to funding agencies in time
- Sixty one student projects are funded

##### **3.1.2 What is the policy of the College to promote research culture in the College?**

Faculty members are engaged with minor and major research projects as principal investigators have freedom in deciding the research area, research methodology, choice of books and instruments/equipment, etc. for conducting the research projects.

The Institute has adequate infrastructure and human resources. It provides Information Communication Technology (ICT) enabled facility. Campus is Wi-Fi enabled, supports its faculty in terms of technology and information needs through high end computing facilities, required software, high speed internet (100+30 Mbps) and has a digital library along with online journals and research oriented books are also made available in well stacked library. Further state-of-the-art equipment is made available in laboratories. Moreover, the Institute has Navigation Communication Research Centre where



advanced equipment such as two Indian Regional Navigational Satellite System (IRNSS) receivers are installed to take up research in navigation and communication fields. All these resources are timely made available for faculty and students to conduct research.

Time-off facility is extended to teachers engaged in research projects. Principal Investigator and other associated faculty are permitted to visit R&D laboratories and other institutions as per their requirements on paid leave. The faculty members are permitted for presenting research work in national/international level seminars/conferences/ workshops and these are also supported with registration fee, TA/DA with paid leave. In addition to this, institute supports faculty who are pursuing Ph.D. with reimbursement of registration fee and thesis documentation expenditure.

### 3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

#### Department of Civil Engineering

**Prioritized research areas:** Special Concretes, Structural Dynamics, Earthquake Engineering, Waste Water Treatment

#### Expertise available:

S.No	Name of the faculty	Area of Research
1	Dr. K. Jagannadha Rao	Special Concretes: Fibre Reinforced Polymer Concrete, High Performance Concretes, Self Compacting Concretes, Self Curing Concretes, Recycled Aggregate Concrete, non-corrosive reinforcement (Glass FRP), etc.
2	Dr. M. Koti Reddy	Structural Dynamics, Finite Element Methods, etc
3	Dr. P. Rama Raju	Hydrology, Irrigation water & other Water Resources Management, Flood control, Dam & canal construction, Irrigation Drainage system, etc
4	Dr. K. Tirumala Reddy	Ground Water Investigation, Ground Water Quality Modeling, etc
5	Dr. M. V. Rama Raju	Fly ash concrete and other special concretes & structural failures of buildings, etc.
6	Dr. M. V. Krishna Rao	Special Concretes, Sustainable materials in Concrete construction, Use of Artificial Intelligence techniques in Construction Management
7	Dr. N. R. Dakshina Murthy	Alternative constructive materials, Fiber Reinforced Polymers and Fiber Reinforced Concretes, special concretes, etc
8	Dr. A. Vimala	Earthquake Engineering
9	Dr. D. NeelaPriya	Waste water treatment using nano materials, eco friendly materials, recovery of materials from spent waste, etc.
10	Dr. C.	Waste water treatment, Solid Waste Management, Bio stabilization



	Aparna	technology, Soil and Water quality evaluation, Environmental Impact Assessment, Environmental Pollution Monitoring and Control Technologies etc
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### **Department of Computer Science & Engineering**

**Prioritized research areas:** Data Mining, Cloud Computing, Optical Character Recognition, Bio Informatics, Software engineering, Soft Computing, Mobile Database, Data Analysis, Internet of Things.

#### **Expertise available:**

S.No	Name	Area of Research
1	Dr. C. R. K. Reddy	Software Testing, Data Mining, Optical Character Recognition
2	Dr. Y. Ramadevi	Data Mining, Image Mining, Speech Recognition, Bio Informatics
3	Dr. M. Swami Das	Optical Character Recognition , Network Theory

### **Electrical Electronics Engineering**

**Prioritized research areas:** HVDC system, high capacity long distance HVAC system, FACTS devices, EHV and UHV transmission, transmission lines in EHV systems, High Voltage Distribution System, Ultra Super Critical (USC) Plants, IGCC technology, Solar photovoltaic and Solar thermal, Wind Energy, Alternative fuels and energy / Energy recovery, Solar Thermal HVAC system, Voltage Source Converter (VSC) based HVDC Transmission, High Speed Grounding Switches (HSGS), Transformer-less HVDC Transmission, Energy Storage Devices, High Temperature Superconducting (HTS) Technology in Power Sector, Smart grid technologies:

S.No	Name	Area of Research
1	Dr K. Krishnaveni	FACTS, Power Electronics
2	Dr P V Prasad	Power Systems, Distribution Systems: Performance improvement
3	Dr Suresh Babu	Electrical Machines, Renewable Energy
4	Dr.E V Chandrashekara Rao	Special Machines, Renewable Energy Sources
5	Dr .Suresh Kumar	Distribution Systems and Power Quality
6	Dr. T Murali Krishna	Transmission and Distribution Systems
7	Dr. P V Bala Subramanyam	Power Systems, Control and Stability





### ECE Department

**Prioritized research areas:** Antennas, propagation, navigation, GIS, mobile and wireless, data communication, signal processing, Ionosphere, IRNSS, palm leaves, VLSI and cognitive radio.

#### Expertise available:

S. No	Faculty Name	Area of Research
1	Dr.N.V.Koteswara Rao	Antennas and Microwave Electronics
2	Dr.D.Krishna Reddy	Mobile Communication, GPS and navigation.
3	Dr.A.V.Narasimha Rao	Wireless, Data & Computer Communication
4	Dr.K.Subba Rao	Signal Processing and Signal Design
5	Dr. A.D. Sarma	Navigation, communication and propagation
6	Dr.P.Narahari Sastry	Image processing, palm leave characterization and cognitive radio
7	Dr. A.Vani	Data Communication
8	Smt..N.Alivehuman ga	Low power VLSI
9	Smt.K.Suman	Coding Techniques
10	Smt. A.Supraja Reddy	Navigation and Communication

### Mechanical Engineering Department

**Prioritized research areas:** Design, Geometric and Finite Element Modeling, Finite Element Analysis, Composites, Fracture and Fatigue, Vibration and Acoustics, PSD analysis, Compressor modeling, CNC Manufacturing, Robotics, Nano Materials and Technology, Precession Engineering, Metal cutting, Metal forming, Metal casting, Welding, Heat transfer, IC Engines and combustion, Alternate Fuels, Non conventional Energy sources', Fluid Mechanics and dynamics, Bearings and lubrication, Friction and Wear, 3D printing, Unconventional machining.

#### Expertise available:

S. No.	Name of the faculty	Area of Research
1	Dr. P Ravinder Reddy	CAE/CFD, Composite and Structures, Nano materials, Friction Welding, Resistance welding, Impact analysis of Advanced ceramic composites, Simulation of Deep Drawing Process, Synthesis and Characterization of Nanoceramic Composites and Simulation, PSD analysis of Hermetic Compressor, Machinability on Metal Matrix Composites, Fracture behavior and strength Characteristics of Carbon Epoxy & CNT Composite Materials, welding response in curved structures, Magneto Rheological Damper to Control Vibrations During Machining, Diesel Engine Combustion and Emissions, Data Mining Approach for Developing Decision



		Support System to Process Control And Quality improvement, Buckling of Laminated Composite Cylindrical Shells, Analysis of buckling of springs (Helical compression) over different range parameters, Cylindrical Shells with Helically wound Fiber Reinforcement, Mechanical and Fracture Properties of Bio-Composite Material Reinforced with Chicken Feather, Design of Composite Propellers for Higher Cavitation, Noise and Vibration, Blowers, Development of Air turbine.
2	Dr. B. Chennakesava Rao	Machinability on Metal Matrix Composites, Metal cutting and Machine tools, Tool wear and surface roughness, optimization methods, Machine Design, computer Integrated manufactory, composite materials
3	Dr.MVS Muralikrishna	Studies on air gap insulated piston, Experimental Investigations on Two-Stroke Copper Coated Spark Ignition on Gasoline, Investigation on Catalytically Activated Two-Stroke Spark Ignition Engine with Alcohol Blended Gasoline, Heat Transfer Analysis of Corrugated Plate Heat Exchanger, Alternate fuels and combustion, Engine testing and simulations
4	Dr. Y. Krishna Reddy	Machine Design, Material handling, Bulk fluid analysis, Design of structures
5	Dr. G. Haragopal	Industrial Engineering and management, Optimization methods, DOE, Taguchi approach, Welding characteristics
6	Dr. P. Prabhakar Reddy	Metal forming, Metal cutting, PDPP, Optimization Techniques, simulations of Metal cutting and forming process, explosive forming
7	Dr. P V R Ravindra Reddy	Metal forming, Welding and casting, Simulation Studies on the Explosively Formed Projectiles, Theory of elasticity and plasticity
8	Dr. N.V Srinivasulu	Plant Engg. & Mgmt., CAD/CAM, Vibrations, Composite beams, FEA and simulations
9	Dr .A.A Sriramakrishna	Machinability on Metal Matrix Composites, Metal cutting and Machine tools, optimization methods, Tool wear and surface finish characteristics
10	Dr G. Laxmaiah	Vibration, Machine dynamics, PSD analysis of Hermetic Compressor
11	Dr. K. Kishor	I.C Engines & Alternate Fuels, Engine Piston simulations, Investigation on Catalytically Activated Two-Stroke Spark Ignition Engine with Alcohol Blended Gasoline
12	Dr. L. Suresh Kumar	Industrial Engineering and Management, Welding characteristics, DOE, Taguchi approach
13	Dr.S. Narasimha Kumar	I.C Engines & Alternate Fuels, Engine Piston simulations, Experimental Investigations on Two-Stroke Copper Coated Spark Ignition on Gasoline engine
14	Dr. P. Ramalakshmi	Fracture behavior and strength Characteristics of Carbon Epoxy & CNT Composite Materials, FEA, Failure analysis and design

### Information Technology

**Prioritized research areas:** Image Processing, Software Engineering, Cloud Computing, Big data Analysis, Mobile Computing, Real Time Systems

**Expertise available:**

S. No	Name of the faculty	Area of Research
1	Dr. Suresh	Image Processing, Software Engineering, Cloud



	Pabboju	Computing and Big data Analysis.
2	Dr. K. Radhika	Mobile Computing
3	Dr. Smriti Agrawal	Real Time Systems

### Chemical Engineering

**Prioritized research areas:** Environmental Engineering, Waste water treatment, Modeling and simulation, Heat and Mass Transfer operations

#### Expertise available:

S.No	Name of the faculty	Area of Research
1	Dr. P V Naga Prapurna	Industrial Waste Water treatment
2	Dr. R Sreedhar Rao	Environmental Engineering
3	Dr. T Sankarshana	Mass Transfer with Chemical Reaction Engineering
4	Dr. B Sreedhara Rao	Heat Transfer operations

### Bio-Technology Department

**Prioritized research areas:** Plant Tissue Engineering, Microbial ecology and taxonomy, downstream processing and identification of secondary metabolites, Genetic Engineering, work on Chemical and Biochemical dynamics.

#### Expertise available:

S.No	Name of the faculty	Area of Research
1	Dr. T.Sai Krishna	Cytology, Genetics, Inheritance studies, Modern plant breeding techniques and Microbial ecology and taxonomy.
2	Dr. V.Aruna	Genetic Engineering and Plant and Animal Biotechnology.
3	Dr.G.Vijaya Lakshmi	Genetic studies
4	Dr. Soma Roy	Plant Tissue culture and Tissue Engineering.
5	Dr.S.Shylaja	Organic chemistry-plant products
6	Dr. K. Raja Gopal	Physical Chemistry

### School of Management of Studies(MBA)

**Prioritized research areas:** HRM& Marketing, Finance/Economics

#### Expertise available:

S.No	Name	Area of research
1	Dr. Saraswathi	HRM & Marketing



2	Dr. A.R. Aryasri	HRM
3	Dr. Hari Leela	Finance/Economics
4	Dr. K. Sowmya	Finance

### Master of Computer Applications (MCA)

**Prioritized research areas:** Soft Computing, Advanced Operating Systems, Data Mining, Machine Learning, Big data Analysis and Cloud Computing

#### Expertise available:

S.No	Name	Area of research
1	Dr. K. Sagar	Soft Computing, Advanced Operating Systems
2	Dr. L. Srinivas Reddy	Data Mining, Machine Learning, Big data Analysis, Cloud Computing

### Department of Mathematics & Humanities

**Prioritized research areas:** Reliability Theory, Data Environment Analysis, Number Theory, Fluid Mechanics, Fixed Point Theory, American Literature and English Language Learning.

#### Expertise available:

S. No	Name	Area of research
1	Dr. B. R. Sreedhar	Reliability Theory, Data Environment Analysis
2	Dr. M. Ganeswar Rao	Number Theory
3	Dr. P. Raj Reddy	Fluid Mechanics
4	Dr. K. Rama Rao	Fluid Mechanics
5	Dr.G. Narasimhulu	Fluid Mechanics
6	Dr. Swatmaram	Fixed Point Theory
7	Dr. G. Deepa	Fluid Mechanics
8	Dr. A. Sandhya Reddy	American Literature
9	Dr.Ch.Suvarna Ragini	English Language Learning

### Department of Physics

**Prioritized research areas:** Solid state Physics, Theoretical Physics; Environmental Radiation, Materials Science & Electronics, Radiation Physics, Materials Science

#### Expertise available:

S.No	Name	Area of research
1	Dr. N. Amrutha Reddy	Solid state Physics
2	Dr. B. Linga Reddy	Solid state Physics
3	Dr. B. Sreenivasa Reddy	Theoretical Physics; Environmental Radiation
4	Dr. Yanala Srinivasa Reddy	Materials Science & Electronics



5	Dr. K. Vinay Kumar Reddy	Radiation Physics
6	Dr. M. Subhadra	Materials Science

### Department of Chemistry

**Prioritized research areas:** Chemical Kinetics, Stability Constants, Chemical Kinetics, Organic Synthesis, Naphthalene Compounds, Thermodynamics, Determinations of Parameters by using Thermodynamics, Nano Materials, Metal Organic Frame Work

#### Expertise available:

S.No	Name	Area of research
1	Dr. P. Giridhar Reddy	Chemical Kinetics
2	Dr. K. Laxmi	Stability Constants
3	Dr. K. Ramesh	Chemical Kinetics
4	Dr. M. Mamatha	Organic Synthesis, Naphthalene Compounds
5	Dr. M. Murali Krishna	Thermodynamics, Determinations of Parameters by using Thermodynamics,
6	Dr. M. Rama Devi	Nano Materials
7	Dr. P. Suresh	Metal Organic Frame Work

#### 3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

- \* advancing funds for sanctioned projects
- \* providing seed money
- \* autonomy to the principal investigator/coordinator for utilizing overhead charges
- \* timely release of grants
- \* timely auditing
- \* submission of utilization certificate to the funding authorities

#### Advancing funds for sanctioned projects

Institute proactively supports the sanctioned research projects as and when principal investigator request for advance of funds for initiating project .

#### Providing seed money

There is a provision to provide seed money to the faculty for conducting initial research work. Based on the outcome of this work, Research proposals are used to apply for funding from agencies such as DST, UGC, AICTE and DRDO and research grants.



### **Autonomy to the principal investigator/coordinator for utilizing overhead charges**

Faculty members are engaged with minor & major research projects as principal investigators and they have freedom in utilizing overhead charges. Institute supports all proposals of the investigators in utilizing the overhead charges.

### **Timely release of grants**

Institute pursues for timely release of grants from funding agencies.

### **Timely auditing**

The Principal and administrative office of the College helps the principal investigator in preparing and timely auditing of utilizing certificate and statement of expenditure.

### **Submission of utilization certificate to the funding authorities**

Administrative office helps investigator in preparation and submission of utilization certificate for timely submission to funding agencies.

### **3.1.5 How is interdisciplinary research promoted?**

- \* between/among different departments of the College and
- \* collaboration with national/international institutes / industries.

The Institute encourages inter-disciplinary research among the various departments through organizing seminars/workshops on inter-disciplinary issues. A workshop on Nano technology, organized by mechanical and ECE department. A National Conference on Operations Research and Management (NCORM) organized by Mechanical Engineering department and School of Management studies are few examples for initiating inter disciplinary research.

Pico Satellite Research project was carried out in collaboration with ISRO, India. The research project entitled "Artificial HEART" is being carried out along with Pittsburg University, USA, BITS, Hyderabad and SNIT, Hyderabad. Many Research projects are successfully completed in collaboration with NSTL and DRDO labs.

### **3.1.6 Enumerate the efforts of the College in attracting researchers of**



### **eminence to visit the campus and interact with teachers and students?**

The Institute has been organizing seminars/workshops/invited lectures in which researchers of eminence are invited to deliver lectures and preside over the technical session. During the last six years several courses were organized by various departments. These have paved the way for our faculty and students to have interaction with many scholars and scientists who have national and international recognition in research and development.

The institute invites professors with good research background to serve for enhancing the research activity in the institute. The institute also conducts national and international conferences and workshops on emerging areas of relevance to expose the faculty to the outside world and to provide a platform for the outside researchers to visit the college.

- Prof. Raju Manthena, University Mississippi, USA, Delivered a lecture on composite materials on 4th January, 2016
- Dr.T.Rajasekharan, Sc G (Retd), DMRL, delivered a keynote address on the inauguration of International conference (TIME 2016) on 10th February 2016.
- Prof. Sudhakar M Reddy, University of Iowa, Iowa, USA delivered a talk on Solving Engineering Problems on Multi-core Workstations on 12-01-2015.

### **3.1.7 What percentage of faculty have utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?**

Two faculty members (Sri M. Swamy Das of CSE department and Sri V. Praveen Kumar of EEE Department) were sent to Carnegie Mellon University, USA in June 2006. The faculty who utilize the facility have been contributing well to uphold the research quality and culture in term of M.E/ M.Tech projects guidance. Sri Y. Krishna Reddy, Mechanical Engineering department and Sri B V Ramana Prasad, department of Civil Engineering were sent on Quality Improvement Programme (QIP) for pursuing PhD degree to IIT Khargpur and IISC Bangalore, respectively.

### **3.1.8 Provide details of national and international conferences organized by the College highlighting the names of eminent scientists/scholars who participated in these events.**

Various departments organized many national and international conferences during the last five years. The eminent scientists/scholars who participated are listed below



S.No	Eminent Scientist/Participant	National/International conference/Technical Events	Year of visit
1	Prof. Raju Manthena, University Mississippi, USA	Delivered a lecture on composite materials	2016
2	Dr.T.Rajasekharan, Sc G (Retd), DMRL	delivered a keynote address on the inauguration of International conference (TIME 2016)	2016
3	K. S. Parikh, Dy. Director, SAT COM Navigation application area, SAC , ISRO Ahmadabad.	Visit to NCRC Lab	2015
4	Dr. Shakeel Ahmad, Joint Secretary, UGC, New Delhi.	UGC Schemes for financial support	2015
5	Prof. Sudhakar M Reddy, University of Iowa, Iowa, USA	delivered a talk on Solving Engineering Problems on Multi-core Workstations	2015
6	Prof. Atul Negi, Professor, SCIS, University of Hyderabad Dr. Padmaja Rani, JNTUH Dr. G.Narasimham, JNTUH Prof. S. Ramchandram Dean, Faculty of Informatics Vice-Principal, Osmania University College of Engg.	National Conference on “Recent Trends in Information Technology- 2013 NCRTIT’13”	2013
7	Md. Abdulla	Personality Development & Verbal Ability	2016
8	Sri MVSD Prasada Rao	National Level Seminar on Educational Utilization Program (VIDYOG). It covered most important Indian Standards of various branches of	2016
9	Sri D Srikanth	Construction of Highways and Bridges – general practices	2016
10	Sri Dinesh Adepu	Offshore - Structural Engg perspective	2015
11	Prof Prasad Patnaik	Cricket Ball Aerodynamics	2015
12	Dr Raji Reddy, USA	Planning for Research and Education in USA	2015
13	Prof.Atul Nagi, IEEE chapter chairman	Recent Trends in Information Technology	2013
14	Dr Radhe Shyam Sharma	Academic & Research Opportunities in USA	2012
15	Dr. Lal Kishore, Vice Chancellor, JNTU Anathapur,	CCAES	2012
16	Mr Walter Williams & Mr P. Atchyuta Reddy	External Insulation & Finished system(EIFS) for buildings	2012
17	Dr K V L Subramaniam	Non-destructive testing & Evaluation for condition assessment and Retrofitting of Concrete Structures	2011
18	Dr Sriram Narasimhan	Research Possibilities in Structural Engg	2010
19	Dr. Johnson Alengaram, Professor, University of Malaya	Teaching, Delivery and Evaluation Techniques and Research Collaboration	2015





20	Mr. Martin Radley, faculty, Carnegie Mellon University, U.S. and Ms. Meghna Vivaswat, faculty, IIT – Hyderabad	Workshop on “Introduction to Behaviour Mentor Training”	2015
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### **3.1.9 Details on the College initiative in transferring/advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land).**

**The Institute encourages such activities. Some of the initiatives include:**

- All Terrain Vehicle designed and developed by Mechanical and Production Engineering students, in which research findings of faculty are used.
- Two Solar powered vehicles designed and developed by faculty and students are being used in the campus.
- Dr P. Ravinder Reddy, Professor & Head, and 22 students of Mechanical Engineering Participated in race car event organized by ATA Formula Society for Mechanical Engineering (FSAE) Italy during September 9<sup>th</sup>-16<sup>th</sup> 2015 at Riccardo Paletti Circuit, Strada per Fosio 1, Varano de' Melegari, PR 43040 Italy.
- Students of Mechanical Engineering took part in designing the PICO satellite which was launched by ISRO.
- Students of Mechanical Engineering took active part in designing and installing solar panels in the campus.
- PG students of ECE department are involved in acquiring IRNSS receiver data in NCRC Lab, which is used for the development of positioning algorithms.
- In Civil Engineering department, the research work is carried out in the areas of Self Compacting Concrete, Bacteriological Concrete, Fiber reinforced Concrete, Sustainable Methods of Structural Construction, protection of historical monuments etc. The outcome of the research is transferred to society in general and Archeological Society of India (ASI) in specific.
- The Students of Civil Engg Department are also engaged in carrying out Ground Water Harvesting in the campus.

### **3.1.10 Give details on the faculty actively involved in research (Guiding student research, leading research projects, engaged in individual or collaborative research activity etc.)**

About 100 of the 309 faculty have Ph.D. degree and are actively engaged in research work and publish their work in peer reviewed journals.

Twenty three faculty members have been recognized as research supervisors by the affiliating Osmania University, Hyderabad,



JNTU Hyderabad, NIT Warangal, Rayalaseema University, Kurnool and GITAM University, Visakhapatnam.

The administration always strives to maintain a right mix of faculty with senior researchers in various disciplines active researchers at middle level and research enthusiasts at the entry level in each of the departments.

**Details of the faculties involved in Ph.D. research guidance in the past five years**

S. No	Name of the Faculty	Department	Ph.D Guidance to research	
			Guiding	Awarded
1.	Dr. K. Jagannadha Rao	Civil	04	-
2.	Dr. N. R. Dakshina	Civil	01	-
3.	Dr. C. R. K. Reddy	CSE	08	04
4.	Dr. Y. Rama Devi	CSE	08	-
5.	Dr. K. Krishnaveni	EEE	04	-
6.	Dr. P. V. Prasad	EEE	04	-
7.	Dr. N. V. Koteswara	ECE	04	-
8.	Dr. D. Krishna Reddy	ECE	06	-
9.	Dr. A. V. Narasimha	ECE	04	-
10.	Dr. K. Subba Rao	ECE	06	05
11.	Dr. A. D. Sarma	ECE	01	05
12.	Dr. P. Narahari Sastry	ECE	03	-
13.	Dr. A Vani	ECE	01	-
14.	Dr. P. Ravinder Reddy	MED	08	14
15.	Dr. M. V. S. Murali	MED	08	03
16.	Dr. P. Prabhakar Reddy	MED	01	-
17.	Dr. N. V. Srinivasulu	MED	01	-
18.	Dr. L. Suresh Kumar	MED	01	-
19.	Dr. Suresh Pabboju	IT	08	-
20.	Dr. Smriti Agrawal	IT	01	-
21.	Dr. T. Sankarshana	CHEM	03	01
22.	Dr. T. Sai Krishna	Bio Tech	-	06
23.	Dr. S. Saraswathi	SMS	03	-
Total			88	38

**Department wise Details of the faculty engaged in individual research for Ph.D./M.Phil in the past five years.**

S. No	Department	Faculty awarded with Ph.D.	faculty Pursuing Ph.D
1.	Civil	03	04
2.	CSE	03	10
3.	EEE	04	05



4.	ECE	03	10
5.	Mechanical	08	08
6.	IT	02	06
7.	Chemical	01	05
8.	Bio-Tech	01	02
9.	MBA	02	03
10.	MCA	02	03
11.	Mathematics	04	04
12.	Physics	01	01
13.	Chemistry	03	-
14.	Library	01	-
15.	Physical	02	-
Total		40	61

Six departments namely Civil, CSE, EEE, ECE, Mechanical & IT are offering PG programmes in engineering. The faculty of these departments are guiding the ME/M.Tech projects/dissertations which are leading to research project proposals .

**Faculties leading to sponsored research projects in the last five years are shown below:**

S. No	Name of the Coordinator	Project Sponsored	Ref.No. /Date	Duration	Project Title	Sanctioned Amount (in Rs.)	Remarks
1.	Dr.P.Ravinder Reddy	AICTE	20/AICTE/RIF D/RPS(Policy-III)82/2012-13	01.04.2013 to 31.03.2016	Mechanical & Fracture Properties of Bio Composite Reinforced with chicken Feathers	18,05,000/-	Under progress
2.	Dr.D.Krishna Reddy	SERB, DST	SERB/F/3444/2012-13 DAT. 21.09.12	01.12. 2012 to 30.11.2014	Data Processing Techniques to improve Real Time Performance	9,40,400/-	Report submitted
3.	Dr.P.Narahari Sastry	AICTE	20/AICTE/RIF D/RPS(Policy-I)25/2013-14 Dt. July5,2013	2013-14 to 2015-16	Design & Development of Palm leaf character Recognition System	6,84,334/-	Report submitted
4.	Dr.K.Jagannadha Rao	UGC	No.F MRP-6242/15(SERO/UGC) DT. Jan 2015	March 2015 to Mach 2017	Strength and Durability Studies on High Strength Recycled Aggregate Concrete	3,55,000/-	Under Progress
5.	Smt.N.Rama Devi	UGC	No.F MRP-6260/15(SERO/UGC) DT. Jan 2015	March 2015 to Mach 2017	Information Cyber Security Education - A Cloud Based Approach	2,60,000/-	Under Progress
6.	Dr.M.V.Krishna Rao	AICTE	8-210/RIFD/Policy-1/2014-15 dt. 04.03.15	April 2015 to March 2018	Solid Waste Management for Sustainability in construction through utilization of recycled aggregate from different types of water	14,11,765/-	Under Progress
7.	Dr.A.D.Sarma	ISRO	ISRO/RES/2/399/15-16 DT.	August 2015 to July 2018	a Local Short term model for forecasting	17,66,000/-	Under Progress



			13.07.15		Inospheric scintillations for GNSS application over Indian region		
8.	L.Ramayee Dr. P Ravinder Reddy	DST	SR/WOS-A/ET-1092/2015(G) 26.10.15	26-10-2015 to 25-10-2018	Implementation of Composite materials wind blades in wind mill	22,99,000/-	Under Progress
9.	Dr. P. Ravinder Reddy	NSTL	NSTL/WTWT/COMP/601/12	2011-12	Analysis of Two versions of composite NDE and DE flanges	3,50,000/-	Report submitted
10.	Dr. P. Ravinder Reddy & GM Sayeed ahmed	IEI R&D cell, Kolkata.	RD20110655	2010-11	FEA based modeling of magneto Relogical damper performance and strength using CFD & FEM analysis	1,50,000/-	Report submitted
11.	Dr. P. Ravinder Reddy	NSTL	NSTL/WT/COMP/925 27510	2010-11	Design of composite propeller for estimating cavitations performance and strength using CFD&FEM analysis	5,00,000/-	Report submitted
12.	Dr. P. Ravinder Reddy	NSTL	NSTL/WT/COMP/925 12609	2009-11	Design and development of composite (FRP) blower for low noise by using FEM & CFD analysis.	8,00,000/-	Report submitted
13.	Dr.GCM Reddy & Dr. PVR Ravinder Reddy	Programme AD, DRDO	PGAD/RCI/72 18/10/M/2008/ 131 5/12/2008	2009-11	Simulation studies on the explosively formed projectiles	9,95,000/-	Report submitted
14.	Dr. K. Subba Rao	RCI, DRDO	RCI/DCMM/L P/CARS/313 dated 03-09-2013	2013-14	Design and Development of DSP Processor Based signal Processing unit for Ring Laser Gyro	7,85,000	Report submitted
15.	Dr.A.D.Sarma	RCI, DRDO	RCI/DCMM/L P1/CARS/0336 dated 02-02-2015	2015-17	Performance Evaluation of IRNSS in the Context of Position and Velocity	15,00,000	Under Progress
16.	Dr. K. Subba Rao	RCI, DRDO	RCI/DCMM/L PD/CARS-368 dated 29-04-2016	2016-18	Improvement of performance of RLG with wavelet and S-transform	9,75,000	Under Progress
Total Amount						15576499/-	



## 3.2 Resource Mobilization for Research

### 3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

Percentage of the total budget is earmarked for research for the last three years is shown below:

S.No	Financial year	Total budget allotted (Rs)	Budget earmarked for research (Rs)	% of budget earmarked for research
1.	2013-14	66,67,31,767	15,00,000	0.22%
2.	2014-15	54,19,78,544	15,00,000	0.27%
3.	2015-16	49,53,48,312	50,00,000	1.00%

Budget allocation and utilization for the last three years is shown below:

S.No	Financial Year	Financial allocation (Rs)	Actual utilization (Rs)
1.	2013-14	15,00,000	78,899
2.	2014-15	15,00,000	--
3.	2015-16	50,00,000	60,000

### 3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

Financial support is provided to procure equipment/hardware components and other amenities required for students projects (UG).PG students are supported with GATE scholarship sanctioned by MHRD and a scholarship by TEQIP.

Financial support is provided to research scholars for preparation and publication of Ph.D research work. Financial support is extended to faculty and students for attending national and international conferences. And also the institute has made available the high-end computing systems, analytical instruments and software to the needy researchers. The institute financially supports to student projects through TEQIP is listed below

#### Student Projects Supported under TEQIP-II (2012-2016)

S.No	Project Name	Department	Amount Sanctioned (Rs)
1	Heat Transfer from Exothermic reaction over 16 cm distance to produce the maximum rise in the KCl solution.	Chemical Engg	3200.00
2	Heat Transfer studies in Corrugated Plate Heat Exchanger	Chemical Engg	15000.00
3	Vapour Liquid Equilibrium Data for 1-Heptanol	Chemical	14000.00



	System (Binary Mixtures)	Engg	
4	Automation of Street light Using Micro Controller	ECE	5000.00
5	Prototype Solar Car	ECE	3375.00
6	GSM Based Home Security System	ECE	3998.00
7	Automatic Door Locking System using GSM Modem	ECE	16808.00
8	Gesture Based Robotic Arm 3D Printed	ECE	15000.00
9	Solar Power Inverter	Mechanical	32000.00
10	Cost Effective Solar Cooler	Mechanical	13990.00
11	Hybrid Solar Electric Car-2013	Mechanical	40000.00
12	Design, Modeling and Manufacturing of Long Shell for BDL Ltd.	Mechanical	4000.00
13	Mechanical Contact Dish Washer	Mechanical	15000.00
14	Solar Glass cutter	Mechanical	15000.00
15	Reccocon Riders Human Powered Vehicle	Mechanical	57570.00
16	Solar Power Electric Vehicle	Mechanical	210865.00
17	Fabrication of Heat Exchanger	Mechanical	10000.00
18	Simple Compound Die (Which Produce a Hexagonal Washers)	Mechanical	13000.00
19	Design and Development of Single person Electric Vehicle	Mechanical	25000.00
20	Design, Fabrication and Testing of Spring Piston Air Rifle	Mechanical	9000.00
21	Engineering and Fabrication of Battery Charger using Thermo Electric Module	Production Engineering	15000.00
22	Design and Development of GPS/GSM Based embedded Application	ECE	7,000
23	Voice Controlled Responsive Quad Copter	ECE	16,990
24	Design and Development of Embedded System using Beagle bone Black Board	ECE	6,300
25	Design and Manufacturing of Multi Purpose Drawing and Measuring Instruments (CHASTRO DRAFT)	Mechanical	47,000
26	Non-Axial Automated Bi-wheel Transporter	Mechanical	40,000
27	Solar-Wind Hybrid Power Generation	EEE	60,000
28	Lab Automation	CSE	4,000
29	Development of prototype neutral point clamped 3 phase three level inverter (Hardware)	EEE	39,000
30	Manufacturing & Testing of Droid, Motion Mechanism Using Wholly 3D Printed Mechanical Components	Mechanical	77,583
31	Design and Fabrication of Foldable Suitcase Vehicle	Mechanical	29,350



Total	8,64,029.00
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The institutional financial support to student projects (other than TEQIP) is listed below

**Student Projects Supported by Institute other than TEQIP (2012-2016)**

<b>S.No</b>	<b>Title of the Project</b>	<b>Department</b>	<b>Amount Sanctioned (Rs)</b>
1	Design & development of Race car for FSAE, Italy	Mechanical	8,27,816
2	Design and Fabrication of Micro Light Aircraft	Mechanical	3,75,000
3	VLE of Methanol + Water system	Chemical	9,450
4	Fabrication of natural refrigerator	Mechanical	4,950
5	Performance Evaluation of Double Slope Solar Still	Mechanical	9,500
6	Vehicle accident detection system using GSM and GPs	ECE	40,000
7	SAEINDIA project	Mechanical	1,57,765
8	Cloud Computing	IT	4,485
9	Design and fabrication of Electric powered moped	Mechanical	20,000
10	Design and development of solar powered cooler	Mechanical	10,000
11	Vacuum Weight Lifting Machine	Mechanical	6,755
12	Mathematical Modeling and Applied SO	IT	3,000
13	Baja SAE Vehicle designing	Mechanical	1,360
14	Information Integration and computing Applications (ICIICA)	CSE	5,000
15	Manufacturing a car that runs on solar energy	Mechanical	35,000
16	Baja SAE	Mechanical	3,21,000
17	Vehicle hire Charges	Mechanical	30,393
18	SAE-INDIA Student convention	Mechanical	2,00,000
19	Experimental Analysis for stainless Steel of IGC	Mechanical	8,772
20	Experimental Investigation of welding Aspects of AISI 304 & 306 by using taguchi technique for the process of TIG & MIG and study of microstructure	Mechanical	10,000
21	Design and development of solar distilled water generator	Mechanical	7,532
22	Data processing techniques to improve Real-Time performance of GNSS	ECE	3,127
23	Unlocking Graphene for Faster Cloud Computing	IT	5,000
24	Hybrid solar electric car	Mechanical	40,000



25	Solar Vehicle	Mechanical	60,000
26	Energy Application Thermo electric generator module	Mechanical	15,000
25	Air Rifles	Mechanical	9,000
26	Design and Manufacture of single compound dyes	Production	13,000
27	Design and Manufacture of single compound dyes	Mechanical	25,000
28	Solar power electric vehicle	Mechanical	1,50,000
29	Design and fabrication of foldable suitcase vehicle	Production	23,000
30	Human powered bicycle& tricycle	Mechanical	5,75,070
Total			30,05,975.00

**3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last years?**

There is a provision to provide seed money to the faculty for the research. Research committee examines and sanctions the grant for the research proposals received from the faculty. Details are given below

S. No	Faculty Name	Order Date	Duration	Title of Project	Amount sanctioned (Rs)
1.	Dr. NV Koteswar Rao	O/O Principal Dt. 18.03.2013	18.03.2013 to 17.01.2014	Studies on reconfigurable micro strip antennas for cognitive radio	40,000/-
2.	Sri G Suresh Babu	O/O Principal Dt. 23.07.2011	23.07.2011 to 22.3.2012	Designing the development of solid router alternator	40,000/-
3.	Sri L Suresh Kumar	O/O Principal Dt. 23.07.2011	23.07.2011 to 22.5.2012	Experimental investigation welding aspects for ferritic and martensitic steels by Tagnelin techniques for the process of SAW and MIG wilding	40,000/-
4.	Dr. MVS Murali krishna	O/O Principal Dt. 23.07.2011	23.07.2011 to 22.3.2012	Determination of combustion characteristics of low heat rejection	55,000/-
5.	Sri. K Kishore	O/O Principal Dt.	23.07.2011 to 22.3.2012	Pollution levels of the 5 Stroke spark agitation engine	40,000/-





		23.07.2011	2		
6.	Sri. B Sridhar Rao	O/O Principal Dt. 26.02.13	26.02.20 13 to 17.01.20 14	Heat transfer analysis on corrugated plate heat exchanger	40,000/-
7.	Dr.CRK Reddy & Sri. D Jai Ram	O/O Principal Dt. 16.05.2015	16.05.20 15 to 15.05.20 17	Test recognition Natural images	20,000/-
8.	Dr. M Swamy Das & Dr.CRK REdy	O/O Principal Dt. 16.05.2015	16.05.20 15 to 15.05.20 17	Digitization of CBIT library old books and journals	20,000/-
9.	Smt. Padmalatha & Dr.CRK Reddy	O/O Principal Dt. 16.05.2015	16.05.20 15 to 15.05.20 17	Classification through mining agents	20,000/-
10.	Smt. B Lavanya	O/O Principal Dt. 16.05.2015	16.05.20 15 to 15.12.20 16	Measuring the role of training and development activities in enhancing the optimaion citizenship behavior (OCB)	40,000/-
11.	Dr. V Hari Leela	O/O Principal Dt.16.05.2015	16.05.20 15 to 15.12.20 16	Skill enhance strategies A Gap analysis in management education	40,000/-
12.	Prof. P Srinivas Sharma	O/O Principal Dt. 18.05.2015	18.05.20 15 to 17.05.20 16	Experimental investigation on the impact of vibrations and sloshing in liquid storage tanks using simulations, studies and structural models	50,000/-
13.	Dr. P Rama Lakshmi	O/O Principal Dt. 18.05.2015	18.05.20 15 to 17.05.20 16	Estimation of interlaminar shear strength and damage factor in glass epoxy composite	1,75000/-
14.	Dr. B Sreenivas Reddy	O/O Principal Dt. 18.05.2015	18.05.20 15 to 17.05.20 16	Studies on the radioactivity levels present in the building materials used in greater Hyderabad.	60,000/-
Total=					6,80,000/-



**3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.**

Institute encourages faculty to file patents of the research works with providing financial assistance.

**Patent - 1**

PATENT APPLICATION PUBLICATION: The Patent Office Journal dated 15/01/2016 ISSUE NO. 03/2016 FRIDAY DATE: 15/01/2016, Page No.2268	
Application No	201641000080 A , INDIA
Date of filing of Application	01/01/2016
Title of the invention	System and Method for Palm Leaf Character Recognition Using 2D HAAR Wavelet Transform and 3D Feature
Name of Applicant and Address	Chaitanya Bharathi Institute of Technology, Chaitanya Bharathi (PO), CBIT Campus, Gandipet, Kokapet Village, Rajendranagar Mandal, Ranga Reddy District, Hyderabad-500075, Telangana, India
Name(s) of Inventor(s)	Dr.Panyam Narahari Sastry, Dr.N.V.Koteswara Rao, Dr.Ramakrishnan Krishnan

**Patent - 2**

Application No	1550/MUM/2013
Title of the invention	Improvement in Friction Spot Welding Process
Name of Applicant and Address	Chaitanya Bharathi Institute of Technology Chaitanya Bharathi(PO), CBIT Campus, Gandipet, Kokapet Village, Rajendranagar Mandal, Ranga Reddy District, Hyderabad-500075, Telangana, India
Name(s) of Inventor(s)	Mr. Isthiq Ahmed Khan, TATA Technologies & Dr. P. Ravinder Reddy Dept. of Mechanical Engg.

**3.2.5 Provide the following details of ongoing research projects:**

<b>A. College funded</b>					
	<b>Year wise</b>	<b>Number</b>	<b>Name of the project</b>	<b>Name of the Funding agency/ Industry</b>	<b>Total grant received</b>
Minor/Major projects	2011	4	Designing the development of solid router alternator	CBIT	40,000/-
			Experimental investigation welding aspects for ferritic		40,000/-



			and martensitic steels by Tagnelin techniques for the process of SAW and MIG wilding		
			Determination of combustion characteristics of low heat rejection		55,000/-
			Pollution levels of the 5 Stroke spark agitation engine		40,000/-
	2013	2	Studies on reconfigurable micro strip antennas for cognitive radio		40,000/-
			Heat transfer analysis on corrugated plate heat exchanger		40,000/-
	2015	8	Test reorganization Natural images		20,000/-
			Digitization of CBIT library old books and journals		20,000/-
			Classification through mining agents		20,000/-
			Measuring the role of training and development activities in enhancing the optimaion citizenship behavior (OCB)		40,000/-
			Skill enhance strategies A Gap analysis in management education		40,000/-
			Experimental investigation on the impact of vibrations and sloshing in liquid storage tanks using simulations, studies and structural models		50,000/-
			Estimation of interlaminar shear strength and damage factor in glass epoxy composite		1,75000/-
			Studies on the radioactivity levels present in the building materials used in greater Hyderabad.		60,000/-



Total	6,80,000/-
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<b>B. Other agencies - national and international (specify)</b>					
	<b>Year wise</b>	<b>Number</b>	<b>Name of the project</b>	<b>Name of the Funding agency/ Industry</b>	<b>Total grant received</b>
Major projects	2013	1	Mechanical & Fracture Properties of Bio composite Reinforced with chicken Feathers	AICTE	18,05,000/-
	2015	4	Strength and Durability Studies on High Strength Recycled Aggregate Concrete	UGC	3,55,000/-
			Information Cyber Security Education - A Cloud Based Approach	UGC	2,60,000/-
			Solid Waste Management for Sustainability in construction through utilization of recycled aggregate from different types of water	AICTE	14,11,765/-
			Implementation of Composite materials wind blades in wind mill	DST	22,99,000/-
Total					61,30,765/-



Year wise	Number	Name of the project	Name of the Funding agency/ Industry	Total grant received
2015	2	Performance Evaluation of IRNSS in the Context of Position and Velocity	DRDO	15,00,000
		A local short term model for forecasting Ionospheric scintillations for GNSS application over Indian region	ISRO	17,66,000
2016	1	Improvement of performance of RLG with wavelet and S-transform	RCI DRDO	9,75,000
<b>Total</b>				<b>42,41,000/-</b>

**3.2.6 How many departments of the College have been recognized for their research activities by national/international agencies (UGC-SAP, CAS, DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthrough due to such recognition.**

All Departments of the college have recognized for the research activities by national agencies such as UGC,DST,AICTE and DRDO Labs etc.,

The quantum of assistance received in the Last Five Years is **Rs.1,06,58,717/-** (One Crore Six Lakhs Fifty Eight thousand Seven hundred and seventeen).

The two Significant outcomes

I) Seperate research block is under construction

II)NCRC Lab Established

**3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/ National/ International agencies).**



S. No	Name of the Coordinator	Project Sponso red	Ref.No. /Date	Durati on	Project Title	Sanctioned Amount (in Rs.)
1.	Dr.D.Krishna Reddy	SERB, DST	SERB/F/3444/2012-13 DAT. 21.09.12	01.12.2012 to 30.11.2014	Data Processing Techniques to improve Real Time Performance	9,40,400/-
2.	Dr.P.Narahari Sastry	AICTE	20/AICTE/RIFD/RPS(Policy-1)25/2013-14 Dt. July5,2013	2013-14 to 2015-16	Design & Development of Palm leaf character Recognition System	6,84,334/-
3.	Dr. P. Ravinder Reddy & GM Sayeed ahmed	IEI R&D cell, Kolkata	RD20110655	2010-12	FEA based modeling of magneto Relogical damper performance and strength using CFD & FEM analysis	1,50,000/-
4.	Dr. P. Ravinder Reddy	NSTL	NSTL/W T/COMP/92512609	2009-12	Design and development of composite (FRP) blower for low noise by using FEM & CFD analysis.	8,00,000/-
5.	Dr.GCM Reddy & Dr. PVR Ravinder Reddy	Programe AD, DRDO	PGAD/R CI/7218/10/M/2008/1315/12/2008	2009-12	Simulation studies on the explosively formed projectiles	9,95,000/-
Total Amount						35,69,734



### Industry Sponsored Research Projects

S.no	Duration year From To	Title of the Project	Name of the Funding agency	Total Grants Sanctioned (Rs)
1	2013-14	Design and Development of DSP Processor Based signal Processing unit for Ring Laser Gyro	DRDO	7,85,000
2	2011-12	Analysis of Two versions of composite NDE and DE flanges	NSTL	3,50,000
3	2010-12	Design of composite propeller for estimating cavitations performance and strength using CFD & FM analysis	NSTL	5,00,000
4	2009-12	Simulation studies on the explosively formed projects	NSTL	8,00,000
Total				
<b>24,35,000/-</b>				

All the departments of the institute exercise their liberty to organize workshops, seminars, conferences, sensitization and training programmes for focusing on capacity building in terms of research and imbibing research culture among the faculty and students. The list of sponsored programmes conducted are presented below.

### List of sponsored programmes conducted during last five years

S.No	Name of the Coordinator	Funding Agency	Programme	Ref.No. /Date	Duration	Programme Title	Sanctioned Amount (in Rs.)
1	Dr.N.V.Koteswar Rao	AICTE	FDP	08/RIFD/FDP/P(2)/2014-15 DT. 23.02.15	15-06-2016 to 27-06-2015	Recent Trends and Advancements in VLSI for Embedded Applications	5,05,000
2	Dr.P.Ravinder Reddy	AICTE	FDP	6-101/RIFD/FDP/P(2)2013-14	17-3-2014 to 29-03-2014	Finite element analysis and practices Ansys.	7,00,000/-
3	Dr.S.Saraswathi	AICTE	Seminar Grant	7-35/RIFD/SG/Policy-i/2013-14	25th & 26th August 2013	Management and Social Sciences - its impact on Sustainable Development	1,50,000/-
4	Dr.N.V.Koteswar Rao	AICTE	FDP	6-65/RIFD/FDP/P(2)	2nd Dec 2013 to	Real time Signal Processing	5,00,000/-



				) 2013-14 DT. 18.06.13	14th Dec 2013		
5	Dr. D Kirshna Reddy	AICTE	Seminar Grant	F.No 7- 293/RIFD/SG/Pol acy-1/2013-14	22nd & 23rd November 2013	GPS and its augmentation systems GAGAN for aircraft navigation	1,50,000/-
6	Dr.P.Prabhakar Reddy	AICTE	SDP	1- 78/RIFD/SDP/90/ 2011-12; 13-02- 2012	07/5/12- 19/5/12	Recent Advances in Manufacturing Automation and simulation(RAMAS -2012)	6,50,000/-
Total Amount							26,55,000

Along the above said sponsored programmes, the institute is also extending adequate financial and administrative support to organize various workshops and seminars which are listed below.

#### **List of Programmes (other than sponsored) conducted in last five years**

S.No	Name of the Department	No.of workshops/seminars/ Conferences organized
1.	CIVIL	7
2.	CSE	20
3.	EEE	20
4.	ECE	38
5.	MECH	4
6.	IT	15
7.	CHEM	18
8.	BIO-TECH	6
9.	MBA	4
10.	MCA	2
11.	Others	6
	Total	140

**Note:** Details are provided in the respective Departmental Evaluation Reports





### 3.3 Research Facilities

#### 3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?

Research committee of the institute initiates strategies for planning, upgrading and creating infrastructure facilities to meet the needs of researchers in the thrust and emerging areas of research.

- All departments are well equipped in terms of Laboratory equipment, Instruments and Library facilities for conducting of Research activity by the faculty and students.
- Departments are well equipped with computing facilities with latest software.
- NCRC LAB has been created to cater to the specific requirements of Research Scholars in specialized areas of Navigation and Communication fields.
- The campus is well connected with 130 MBPS high speed internet and Wi-Fi enabled.
- A dedicated R&D block with all required research facilities will be made available shortly.
- Library with Digital Access and adequate collection of online and print journals (IEEE, Elsevier, Springer, etc.).

The various research facilities available in the various departments of institute are given below:

#### Department of Civil Engineering :

#### LABORATORIES AND OTHER INFRASTRUCTURAL FACILITIES:

S.No	Name of the Laboratory	Area of Laboratory in (Sq m)
1.	Concrete lab	123.9
2.	Fluid mechanics lab	379.76
3.	Strength of materials lab	147.9
4.	Engg. Geology lab	67.1
5.	Soil mechanics lab	94.76
6.	Environmental engg. Lab	90.06
7.	Survey lab	42.38
8.	Transportation engg.	67.1
9.	Computer centre	76.72
10.	Structural dynamics lab	94.76



11.	Dept. Library	241.87
12.	Seminar hall	1937.81

#### Details of Major Equipment

S.no.	Name of the Equipment	Quantity	Amount in Rs/-
1.	100T Digital UTM	1	9,00,000
2.	Shake Table	1	7,78,794
3.	Loading Frame ( 50 T)	1	2,50,000
4.	300T Digital Compression	1	2,31,310
5.	Vibrating Table (2M X 1M)	1	1,78,945
6.	Pan Mixer (40 liters capacity)	1	1,45,608
7.	Rebound Hammer	1	84,375
8.	Hot Air Oven ( Max 250o c)	1	47,907
9.	Accelerated Curing Tank	1	40,000
10.	UPV Apparatus	1	4,53,375
11.	Profometer	1	2,75,650
12.	Total Station	5	15,75,000
13.	DGPS	1	15,43,500
14.	Atomic Absorption Spectro	1	3,58,750
15.	Pelton Wheel	1	3,00,000
16.	Francis turbine	1	1,06,400
17.	Kaplan Turbine	1	1,21,600
18.	Centrifugal Pump	1	1,03,224
19.	Marshal Stability Test	1	61,625
20.	Wind Tunnel	1	68,000
21.	CBR Test	1	38,212
22.	Plate Load test	1	35,500
<b>Total</b>			<b>76,97,775</b>



**List of available Software/Hardware**  
**Hardware**

S. No.	Configuration	Quantity	Amount(Rs)
1.	<u>IBM – NETVISTA A 30</u> Intel Pentium-IV : 2.40 GHz, 256 MB RAM, 40 GB HDD, 17” Colour Monitor	05	2,77,500.00
2.	<u>IBM – Think Centre</u> Intel Pentium-IV : 2.60 GHz, 256 MB RAM, 40 GB HDD, 17” Colour Monitor	05	2,50,000.00
3.	<u>HP-COMPAQ</u> Intel Pentium –IV : 3.0 GHz, 512 MB DDR RAM, 80 GB HDD, 17” Colour Monitor	15	5,25,000.00
4.	<u>IBM – Think Centre</u> Intel Pentium-IV : 2.60 GHz, 512 MB RAM, 80 GB HDD, 17” Colour Monitor	10	3,31,000.00
5.	i7 systems with LED monitor 1TB – HD	10	4,87,725.00
6.	i5 systems with LED monitor 1TB – HD	12	6,00,000

**Software**

S. No.	Description	Quantity	Amount(Rs)
1.	AUTO CAD ,Autodesk Land Desktop 2004	04	3,31,760.00
	Architectural Desktop 2004	02	
	Autodesk Map Series 2004	04	
2.	STRUDS	10 Licenses	49,920.00
3.	STRAP with Hardware Lock	01	60,000.00
4.	STAAD Pro 2.5	01	99,000.00
5.	ProBID <sup>+</sup>	05 Licenses	50,000.00
6.	Abaqus 6.12	01	5,00,001.00
7.	MIDAS Civil (Bridge Analysis & Design)	25 users	7,35,000.00
8.	ANSYS 14.5 version	25 users	9,96,975.00
		<b>Total</b>	<b>28,22,656.00</b>



### Departments of CSE, IT & MCA:

1. High end computing facilities are available
2. Legal softwares is used for research, softwares such as **Matlab, Cognos, Informatica**, etc. are available
3. Cloud competency center established in collaboration with **Microsoft**.

### Departments of EEE:

S.No	Name of the Equipment	Make
1	Phase Shifting Transformer	AE
2	Epstein square Bridge	Zaran
3	AC Servo Motor	Future Tech
4	DC Servo Motor	Future Tech
5	2407 A based DC Drive 2407 A based AC Drive 2407 A based BLDC Drive	M/s. VI Microsystems Pvt. Ltd
6	Universal Digital IC Trainers (8Nos.)	Physitech
7	Linear IC Trainers (7Nos.)	Future Tech
8	3HP , MG set Single phase alternator (1No)	Clear Electronics Machines
9	3HP , 3-Phase Induction Motor (1No)	Clear Electronics Machines
10	3.5KW, MG sets (Series, Shunt and Compound generators) (3Nos.)	Kirlosker
11	3.7KW, 3-phase slipring Induction Motor (1No)	Kirlosker
12	3.5KVA 3-phase Synchronous Motor (1No)	Kirlosker
13	3.7KW 3-phase squirrel cage Induction Motor (1No)	Kirlosker
14	Digital Storage Oscilloscope	Textronix
15	Static Differential Relay Test Kit	Power Research and Development Consultants Pvt. Ltd
16	Static over current relay test kit	Power Research and Development Consultants Pvt. Ltd
17	Numerical Differential Relay Test Kit	Power Research and Development Consultants Pvt. Ltd
18	3-phase Transmission line model	Deve Electronics



	of 400 km equipment with three electromagnetic over current relay and one numeric over voltage and under voltage relay load	
19	MG Sets	Benn Electricals
20	Directional over current relay	Fraser Electron Sys (JVS)

### Departments of ECE: Software

S.No.	Name of the Software	Licenses -No. of users
1	MATLAB Ver.7 including tool boxes (FLOATING LICENCE)	50
2	Mentor Graphics- higher Education 2 – Model Sim, Precision Synthesis- Verification Testing Tools	25 users
3	IE 3D (procured under AICTE project) ZEELAND	1
4	N-Sim Network simulation (DCCN Lab)	20
5	L-Sim Protocol Simulator & Analyser Software	04
6	Wireless LAN Network Simulator	
7	Antenna Training System Kit. Transmitter System, Receiver System, Tripod Stands -2, Different Antennas Like Yagi- Uda, Log-Periodic, Mono-pole, Dipole,etc.	1
8	IRNSS Multi frequency Receivers IRNSS Antennas, Receiver, DataLogging System	20
9	NI LabVIEW Academy Hardware Bundle	01
10	NI LabVIEW Software	30 users
11	Windriver Software Vx-works	5 users
12	Multifunction frequency and Time domain Signal Analyzer	01
13	Network Analyzer and Vector Voltmeter	01



### Hardware

No. of Computers	:	107
Hardware Specification	:	P IV Processor 2.40 GHz (IBM) I3 Intel Core (DELL Make)
Peripheral(s) / Printers	:	Dot Matrix printers
	:	Laser Printers
	:	Inkjet Printers
	:	High Resolution Scanner

CBIT is a nodal centre for SONET

Library is equipped with IEEE and other international journals.

### **Department of Mechanical Engineering:**

Sl. No	Name of the Equipment	Quantity	Cost in Rupees
1.	Nano UTM with tensile, shear, 3 point bend, COD, Fracture & fatigue test facilities	1	30,00,000
2.	3 D Printer	1	6,65,000
3.	HMT center lathe with all accessories	1	22,00,000
4.	Wear, friction & lubrication measuring machine	1	7,00,000
5.	Image Analyzer	1	7,35,000
6.	Flaw detector	1	3,50,000
7.	Sand testing Equipment	1	2,00,000
8.	Kirloskar four stroke four cylinder Diesel Engine Test Rig with computer interfacing.	1	8,00,000
9.	Hydraulic press with accessories	1	2,25,000
10.	Kirloskar four stroke single cylinder Diesel Engine Test Rig with computer interfacing.	1	6,00,000
11.	Desktop work stations	26	18,00,000
12.	ANSYS Multi physics	50 users	4,75,000
13.	ABAQUS Software	2 users	9,00,000
14.	Hyper works software	100 units	10,00,000
15.	CATIA Software	25 users	9,00,000
16.	Solid works software	60 users	6,00,000
17.	Kirloskar 4-Stroke single cylinder diesel Engine test Rig.	1	2,50,000
18.	CNC milling machine	1	8,00,000
19.	Submerged arc welding machine	1	3,40,000
20.	Techquipment TD 44A diesel engine	1	7,00,000



	test bed with hydraulic dynamometer (Imported) (42BHP at 4000 RPM) Morse Test Apparatus Accessories TD44A Diesel Engine PQ Software		
21.	Surface Roughness Measuring Equipment (Surface 3+ Model) Surface Grinding Machine	1	7,00,000
22.	CNC Lathe XL Turn	1	6,65,000
23.	HC and CO Analyser, NO, NOX analyzer	1	5,00,000
24.	DEFORM-2D Software A non linear FEA software package for simulating forming operations	1	3,98,500
25.	Wind Tunnel	1	2,75,500
26.	Vertical Machining Centre (Denford, U.K)	1	17,00,000
	<b>Total</b>		<b>2,14,79,000</b>

### Department of Chemical Engineering

S.No.	Facilities Available
1.	Equipment to determine properties of: <ul style="list-style-type: none"> <li>• Oils – SAP, Iodine, Acid, Hydroxyl values, etc.</li> <li>• Soaps – Total fatty matter, moisture content, etc.</li> <li>• Paints – Viscosity, Adhesion, Scratch hardness, Gloss, Impact resistance and thickness of paint</li> </ul>
2.	Batch reactors, CSTRs and Tubular reactor
3.	Equipment to find diffusion and mass transfer coefficients
4.	Primary and Secondary crushers, Cyclone separators, flotation unit, Sieve analysis, Vibrating screens

### Departments of Bio-Technology

S.No.	Name Of Equipment	Cost(Rs)
1	Auto Clave 35 Litre Complete Ss	50,000.00



	With Basket	
2	Air Lift Bioreactor	2,75,000.00
3	Brushless Rotary Shaker(Ris-209)	60,000.00
4	Fluidised Bed Reactor	2,25,000.00
5	Incubator –Bacteriological –Ri-12s	56,860.00
6	Laminar Air Flow	47,081.00
7	Micro Centrifuge With Timer	26,250.00
8	Orbital Shaking Incubatorris-24bl	46,500.00
9	Polymerize Chain Reactor(Pcr)	200000.00
10	Refrigerated High Speed Centrifuge	1,05,513.00
11	Spectrophotometer(Uv-Biospec)	1,70,500.00
12	Ultasonic Interferometer	38,740.00
13	Visible Spectrometer	32,550.00
14	Water Bath(Ss)	24000.00
15	Gel Doc Ez System Complete	437857.00
	<b>Total</b>	<b>17,95,851.00</b>

Special grants/finances received from the industry/other beneficiary agencies for developing research facility by the institution are mentioned below

S. No	Name of the Coordinator	Funding Agency	Ref.No. /Date	Duration	Project Title	Sanctioned Amount (in Rs.)
1.	Dr.P.Ravinder Reddy	AICTE	8024/RIFD /MOD-53(Pvt)/Policy-iii/2011-12/01.03.12	01.04.2012 -31-03-2013	“Thermodynamics Lab”	8,75,000/-
2.	Dr.R.Sreedhar Rao	AICTE	8024/RIFD /MOD-52(Pvt)Policy-III/2011-12	01.04.12 to 31.03.13	Process Dynamic & Controller Lab	8,80,000/-
3.	Dr.R.Sreedhar Rao	AICTE	9-35/RIFD/MODROB/Policy-1/2013-14 (Pvt) dt. 12.07.13	12-07-2013 to 11-07-2014	Chemical Reaction Engineering Lab	1,50,000/-
4.	Dr.P.Venkata Prasad	AICTE	9-34/RIFD/MODROB/Policy/2013-14 (Pvt) dt. 12.07.13	12-07-2013 to 11-07-2014	Power Systems Laboratory	12,25,000/-





5.	Dr.N.V.Koteswara Rao	AICTE	9-289/RIFD/MODROB/Policy-1/2014-15 dt. 23.03.15	23-03-2015 to 22-03-2016	Multifunction Frequency and Time Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and Navigation Components and Systems	20,00,000/-
6.	Dr.R.Sreedhar Rao	AICTE	9-293/RIFD/MODROB S/POLICY-1/2014-15 (Pvt)	23-03-2015 to 22-03-2016	Process Stimulation (Computer Application in Process industries Lab	19,16,000/-
Total						70,46,000

Cognizant Technology Solution (CTS) and SAC, ISRO who financially supported for establishing Research facilities in the institute are listed below

S no	Funding Agency	Ref.No./Date	Department	Purpose	Sanctioned Amount
1	CTS	MoU dated 28-07-2011	IT/CSE	High End computing facilities	6,00,000/-
2	SAC, ISRO	AHSI20-1100226-90101/dt:12/11/2014	ECE	Navigation Communication research center was created with latest computing facility	(Worth of 10,00,000/-)
3	SAC, ISRO	PI-DU-062-2015-16/dt:.07/12/2015	ECE		6,18,300/-
Total:					22,18,300/-



**3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.**

The college has well stacked library (information resource centre) with latest volumes along with digital library facilities available to access e-journals.

**JOURNALS SECTION:**

Plinth Area (in Sq. m.)	Total No. of Journals	E-Resources	Annual Subscription cost
800 (Including Reference Area)	5000+ e-Journals	IEEE, Science Direct, ASME, ASCE, ASTM, Springer, etc.	Rs. 23.6 lakhs

**Library Journal Subscription**

IEEE, ASME, ASCE, Science Direct, Springer, Access Engineering, JGATE, EBSCO. These packages provide access to more than 5000 journals.

Number of Titles : 20,940  
Number of Volumes : 1,08,088 (as on 1<sup>st</sup> May, 2016)

**3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?**

Providing residential facilities is in active consideration at present.

**3.3.4 Does the College have a specialized research centre/ workstation to address challenges of research programmes? If yes, give details.**

Exclusive R&D block is under construction to cater to the infrastructural needs of the institute. NCRC lab is established to address the challenges in the fields of navigation communication.

**3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

Exclusive R&D block is under construction for facilitating research activities of the institute. This facilities will be made available for researchers from the other laboratories



### 3.4 Research Publications and Awards

#### 3.4.1 Highlight the major research achievements of the College through the following:

- \* major papers presented in regional, national and international conferences
- \* publication per faculty
- \* faculty serving on the editorial boards of national and international journals
- \* faculty members on the organization committees of international conferences, recognized by reputed organizations / societies.

Publications	Last Five Years
Total Publications in the last five Years	1074
Publications per Faculty	0.78

Many faculty are serving as editorial board members of national and International journals. Some of the faculty are serving as members on the organizations committee of international conferences recognized by reputed organizations / societies.

#### 3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?

Efforts are being made in this direction to publish or partner in publication of research journal.

#### 3.4.3 Give details of publications by the faculty:

- \* Number of papers published in peer reviewed journals (national / international)
- \* Monographs
- \* Chapters in Books
- \* Editing Books
- \* Books with ISBN numbers with details of publishers
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- \* Citation Index – range / average
- \* SNIP
- \* SJR
- \* Impact factor – range / average



**\* h-index**

The details of publications are listed below:

<b>Publications</b>	<b>Last Five Years</b>
Publications in peer reviewed journals	590
Monographs	-
Chapter in Books	02
Books edited	14
Books with ISBN/ISSN number with details of publishers	17
Number of publications listed in International Database	856
Citation Index (maximum)	19
SNIP (maximum)	2.573
SJR (maximum)	1.498
Impact factor (maximum)	24.029
h-index (maximum)	65

**3.4.4 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty.**

**Details of the faculties involved in Ph.D. research guidance in the past five years**

S. No	Name of the Faculty	Department	Number of Ph.D Awarded
1.	Dr. C. R. K. Reddy	CSE	04
2.	Dr. K. Subba Rao	ECE	05
3.	Dr. A. D. Sarma	ECE	05
4.	Dr. P. Ravinder Reddy	MED	14
5.	Dr. M. V. S. Murali Krishna	MED	03
6.	Dr. T. Sankarshana	CHEM	01
7.	Dr. T. Sai Krishna	Bio Tech	06
Total			38



#### **3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?**

The Research Committee will address and monitor the issues related to research such as progress of research and also issues related to malpractice and misconduct.

#### **3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental / inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavour.**

The Institute encourages inter disciplinary research among various departments by organizing seminars/workshops on interdisciplinary issues. A workshop on Nano technology, organized by mechanical and ECE department and a National Conference on Operations Research and Management (NCORM) organized by Mechanical Engineering department and School of Management studies are few examples for initiating inter disciplinary research. All the departments involve in interdisciplinary research.

Pico Satellite Research project was carried out in collaboration with ISRO, India. The research project entitled "Artificial HEART" is being carried out along with Pittsburg University, USA, BITS, Hyderabad and SNIT, Hyderabad. Many Research projects are successfully completed in collaboration with NSTL and DRDO labs.

#### **3.4.7 Mention the research awards instituted by the College.**

As of now no such research awards are instituted by the college.

#### **3.4.8 Provide details of**

- \* research awards received by the faculty
- \* recognition received by the faculty from reputed professional bodies and agencies

##### **Research awards received by the faculty:**

Dr P. Ravinder Reddy has got the following awards

1. “**UGC Fellowship**” award by UGC (1999)
2. Raja Rambapu Patil National award for promising Engineering Teacher by ISTE for the year 2000 in recognition for his outstanding contribution in the area of Engineering and Technology
3. Received prestigious “**Meritorious Educational Excellence award**” on 5th December 2002 in New Delhi by Global Society for Health & Educational Growth.



4. Excellence “A” Grade awarded by AICTE monitoring committee for the MODROB project sponsored by AICTE.
5. Best Technical Paper Award in the year Dec. 2008 in Industrial Application titled “Online quality monitoring welding & weld upset in resistance projection welding process”, in Journal of Non-Destructive Testing & Evaluation, the official journal of ISNT during the year 2007 by National Governing Council of Indian Society for Non Destructive Testing.
6. Best paper award by international academy of sciences for the paper on Aerodynamic Analysis of Return Channel vanes in Centrifugal compressors, International journal of Mechanical Engineering, on 31.01.2016

**Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally:**

1. Bronze medal from “Mathematical Olympiad”, 1983
2. Received best teacher award by CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY during the academic year 1998-1999.
3. Received prestigious “Rashtriya Shiksha Ratan Award” on 5th December 2002 at New Delhi by All India Business Development Association.
4. “Engineer of the year Award-2004” for his outstanding contribution in Academics and research by the Govt. of Andhra Pradesh and Institution of Engineers (India), AP State Centre on 15th September 2004 on the occasion of 37th Engineer’s Day.
5. Distinguished Alumnus award - 2006 during Silver jubilee celebrations of KITS Warangal, AP
6. The Biography is included in Marquis' Who's Who in the World'-2007 during Aug.2007
7. Dr. G Chandra Mohan Reddy received "Engineer of the year Award-2009" from Institution of Engineers and state government
8. Dr. P Prabhakar Reddy has received "Young Engineer of the year Award-2007" from Institution of Engineers and state government
9. Some faculty are serving as editorial board members of national and International journals.

**3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.**

Incentives are given to faculty for receiving state, national and international recognitions for research contributions. Institute felicitates the award winners and reorganization holders



### 3.5 Consultancy

#### 3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

The Institute encourages faculty to conduct consultancy work by providing infrastructural facilities. The revenue generated will be shared among the Institute, Departments and the faculty involved. Each department prepares departmental profile along with its expertise and equipment available in the form of a brochure. These brochures are circulated among the prospective customers.

Few important consultancy services undertaken by the College.

- Contact Classes for ICE students
- Ground water Investigation
- Technical Feasibility studies of the existing structure
- Training programme for Dr.Reddy's Labs

#### 3.5.2 Does the College have College-industry cell? If yes, what is its scope and range of activities?

Consultancy Cell was established at the Institute level with the following objectives.

- To enhance the Internal Revenue Generation (IRG) of the Institute.
- To offer services for the Government, Private organizations, Industry and individuals in solving their critical and routine problems by providing appropriate solutions through experimental and /or analytical and /or testing tools.
- To expose the faculty to practical problems in the relevant fields and create expertise.

A Core Committee is constituted with the following members

1.	Prof. P. Srinivas Sarma, Prof. of Civil Engg.,	Chairman
2.	Dr. A.D. Sarma, Prof. of ECE	Member
3.	Dr. D. Krishna Reddy, Prof. of ECE.	Member
4.	Dr. P. V. Ravindra Reddy, Prof. of Mech. Engg.	Member
5.	Dr. P. V. Bala Subrahmanyam, Prof. of EEE	Member
6.	Dr. Arya Sri, Prof. of SMS	Member
7.	Dr. M. Swamidas, Assoc. Prof. of CSE.	Member
8.	Mr. G.N.R. Prasad, Assoc. Prof. of MCA.	Member
9.	Dr. B. Sreedhar rao, Sr. Asst. Prof. of Chem. Engg.	Member
10.	Sri M. Samba Siva Rao, Asst. Prof. of Civil Engg.	Member
11.	Smt. T. Prathima, Asst. Prof. of IT	Member
12.	Dr. A.V.N. Swami, Asst. Prof. of Biotechnology	Member



The Committee will also explore the possibility of carrying on consultancy with the existing facilities in all the departments, need for up-gradation of existing facilities or creating new facilities besides examining the advantages of activating the existing MoUs.

**3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.**

The available expertise with the institution is advocated and publicized through:

- Institute Brochures
- Institute Website
- Open House Meetings
- Open Student Project Contests
- Workshops , Seminars and Conferences
- Trade Fairs
- Training and Placement Office

The client organizations/departments from whom consultancy was sought are Dr.Reddy's Lab, RCI, Ground water Department and Archeological department.

**3.5.4 How does the College encourage the faculty to utilise the expertise for consultancy services?**

Institute encourages faculty by sharing the revenue generated, considering the remission of work load, reimburse the TA/DA incurred and also provides on duty leave.

**3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.**

Consultancy worth of Rs. 40 Lakhs has been generated in the last four years. The details are given below.

<i>Consultancy Works carried out last five years</i>					
<b>Sl. No.</b>	<b>Staff Involved</b>	<b>Name of the Client Organization</b>	<b>Consultancy service offered</b>	<b>Letter no. and Date</b>	<b>Revenue Generate (Rs.)</b>
1	Head, CED & All staff	ICE students	Contact Classes for ICE students	84974, 25-9-2012	1800
2	Head, CED & All staff	Institute of civil engineers	Contact Classes	84974, 25-10-2012	73500





			for students		
3	Head, CED & All staff	AMICE & T-Engg. Students	Contact classes	79663, 25-6-12 79664, 25-6-12 79834, 29-6-2012 79835, 29-6-2012	60700
4	Head, CED & All staff	JPNCE Contact Class work	Contact classes	712464, 10-1-2011 99222, 2-8-2010, RTGS from Canara Bank, Dt: 29-5-2011, 99222, 2-8-2010 52474, 20-1-2011	3,62,800
5	Head, CED & All staff	KSRTIT , Moinabad Mandal,	Contact classes	55989, 6-4-2011	29000
6	Head, CED & All staff	AMICE & T-Engg. Students	Contact classes	60842, 20-6-2011 60847, 20-6-2011 60848, 20-6-2011 60849, 20-6-2011	88300
8	Prof.SSVC	Ultra Tech cement ltd	Field & Laboratory Testing	9416 dt. 15/10/2014 & 15878, 2-12-2014	48,000
9	Prof SSVC	Kasat Stone Industries	Testing of Ballast	112987, 18-11-13	4000
10	Prof.SSVC, Sri.PSR	Raji Reddy Industries	Surveying Field Work	79585, 19-6-12	25000
11	Sri SSVC	M/s.Induri Traders	Cement Bricks	60599 , 08-06-11	225



12	Dr.KTR	Many individuals and organizations	Ground water Investigation	30688, 6-7-2015, 186, 14-7-2015 etc	1,96,000
13	Sri PSR/Sri ABR/ Sri. GBR	Lawrence & Mayo	Technical Feasibility report of the existing structure	827324, 27-11-2013	40000
14	Sri MVKR	M/s. Suraksha Shelters	Testing of cement Bricks Cubes testing	104904,20-8-13114437,22-1-14	2250
15	Sri MVKR	Apurupa Infra.	Testing of cement Bricks	104426,31-7-2013	450
16	Sri MVKR	R.V.Siva Kumar	Testing of CC Blocks	113957,23-12-13	900
17	Sri MVKR	Srinidhi Infra.Pvt.Ltd	Testing of cement Bricks	114391,21-1-2014	450
19	Sri MVKR	D.Madhu Kiran	Cubes testing	116538,14-2-14	4800
20	Sri MVKR	K. Sudhakar	Testing of concrete cubes	952 dt. 16/04/2014	450
21	Sri MVKR	Mounika Flyash Bricks	Testing of cement Bricks	81171, 27-7-2012	500
22	Sri MVKR	Sree venkateswara Lodge	Testing of cement Bricks	84006, 6-9-2012	5400
23	Sri MVKR	DEE, PIU Sub Division, Perigi	Testing of Cement blocks	63366 , 12-8-11	2400
24	Sri MVKR	M/s. Induri Traders	CC Blocks	63514 , 17-8-11	600
25	Sri MVKR	TEMPUS Infra Projects Pvt. Ltd.	Core test	64947 , 20-10-11	62045
26	Sri MVKR	KRK. Prasad	Aerocon Bricks	69069 , 22-11-11	1000
27	Sri MVKR	D.R. Industries	Cover Blocks	71268 , 01-02-12	13800
28	Sri MVKR	P. Achyata	Building	71789 ,	450



		Reddy	Blocks	16-02-12	
29	Sri MVKR	Siri Flyash Bricks,vattinag ulapally	CC Blocks	77778 , 27-04-12	450
30	Sri MVKR	Srinivas & Co. Engg.	CC Blocks	79124, 4-6-2012	500
31	Sri MVKR	M/s. Aditya Industries	PVC Cover Blocks, Laboratory work	74341 , 03-01-11, 122058 dt.4/4/2014	19000
32	Sri MVKR	M/s.Induri Traders	Cement Bricks	56063 , 7-04-11	450
33	Sri GBR	Sri. Vijaya Kumar, Ameenpur	Soil Test	16570, 27-02-2016	10000
34	Sri GBR	Mr. Rajasekhar, MBNR	Soil Test	22140, 27-03-2015	10000
35	Sri GBR	M.Kamalakar Reddy,V.N.Pally	Soil Test	105511,5-9-13	20000
36	Sri PSR/Sri ABR/ Sri. GBR	Lawrence & Mayo	Technical Feasibility report of the existing structure	827324, 27-11-2013	40000
37	Sri GBR	KUPL, Delhi	Soil Test	64405 &7-9-11	10000
38	Sri GBR	Pooja Ventures Pvt. Ltd.	Soil Test	67432 & 10-11-11	3000
39	Sri GBR	M/s. RELIXIR Pharmaceuticals Ltd.	Soil Test	71299 &2-2-12	10000
40	Sri NRDM	Legend Estate pvt.ltd	Concrete lab	26025, 4-5-2015	1000
41	Sri. TVR	G. Vidyadhar Reddy, Khanapur Village	Field Work	13530 dt. 24/11/2014 16441 164dt. 19/12/2014	10000
42	Sri.TVR	M/s. STAM Interactive Solutions Pvt. Ltd.	Video Shooting of Demo and	Ch No. 113520, 07-05-12	20000



			Experiments		
43	Sri PSR	Iswarya Green blocks	Testing of cement Bricks	102529,4-6-13	500
44	Sri PSR/Sri ABR/ Sri. GBR	Lawrence & Mayo	Technical Feasibility report of the existing structure	827324, 27-11-2013	40000
45	Sri.PSR	Mr. Venkatesh	Field Work	80486, 19-7-12	9000
46	Sri.PSR	Raji Reddy	Surveying Field Work	79585, 19-6-12	25000
47	Sri.PSR	Mr.Venkatesh	Fieldwork	80486, 19-7-2012	9000
48	Ms. TMD	Legend Estate pvt.ltd	Concrete lab	14014, 12-08-2015	1000
49	Ms. TMD	MMQ Enterprises Gandipet	Concrete lab	11973, 18-11-2015	500
50	Ms. TMD	C. Narender Reddy	Concrete lab	15341, 23-01-2016	500
51	Sri PSR	Trinity Church, Begumpet, Hyderabad	Structural and Drainage issues	5992, 11-07-2014	35000
52	Sri PK & Sri MSR	Betham B.Church,Shamshabad	Soil Test	5055 19-6-2014&5720 14-3-2014	16,000
53	Sri RLR	Function hall near Khanapur–Gandipet	land surveying	2015	10,000
54	Sri RLR	Ultra Tech Concrete	Lab work	2502 dt.24/6/2014	2000
55	Ms TMD	SS Consultancy & Construction	material testing services	08-03-2011	6000
56	Chemical Engineering Department faculty	Training programme	Dr.Reddy's Labs	April 2013	37,40,379



<i>Total</i>	<b>50,70,099</b>
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### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

#### **3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.**

The College has active NSS unit, student's professional bodies and other clubs for organizing its extension activities and outreach programmes throughout the year. A faculty member as the NSS Programme Officer, student members and student volunteers are members for extending NSS activities. Besides, the unit has an annual thrust areas plan. Time to time prior discussion is held with the committee members to chalk out the plan for its activities.

The organization of extension activities and outreach programmes during the last four years by the College are: Shramdanam and Swachh Bharath like cleaning activity in the College campus, Participation as volunteers in our institutional activities such as college Annual day celebrations, freshers' welcome, large gathering during cultural programmes, annual sports etc. in order to maintain discipline within the campus. Conducts awareness programmes like discussion/symposium on global warming, blood donation, drug abuse and women empowerment etc. Participation in health awareness programme namely 2k15 run and Women's Day celebrations, Blood donation camp, Services at orphanages and old age homes, Road safety, Anti-ragging squads, Medical camps in villages, Environmental awareness programs, Service to physically and mentally challenged people, issue of Voter ID cards to students and staff, First aid training to students and staff, Firefighting mock drills, etc. A Mega Blood Donation camp was organized in collaboration with "Akhil Bharatiya Terapanth Yuvak Parishad". Plantation drive was organized and more than 50 saplings were planted in the campus. The students have actively participated and the huge number of students have enrolled from various departments.

#### **SAHAY:**

SAHAY is the annual fest of the NSS unit of CBIT with the main motto of "helping hands are better than praying lips". The executive body, members, organizers and volunteers under the guidance of faculty incharge have successfully conducted a 10 day fest SAHAY 2012. The events conducted during this fest were road safety week, blood donation camp, voter id card enrollment, essay writing,



music by the blind (SWARAM), fire fighting, old age home service, and first aid training. The most significant event among the fest is issuing of voter ID cards with the help of Government of India to the students and staff members. These social outreach programmes have created social responsibility among the students.

### **3.6.2 How does the College promote College-neighborhood network and student engagement, contributing to holistic development of students and sustained community development?**

The institution promotes institution-neighborhood- community network and student engagement contributing to good citizenship through various clubs.

The institute management has identified the social responsibility as one of the major priorities to act upon, which is being reflected in the vision and Mission statements. Institute has always been in the forefront to undertake extension activities that would help to alleviate the suffering of all the sections in the society. The participation of the students in extension activities leads to practical experience which effectively supplements their theoretical knowledge imbining awareness of civic responsibility, social understanding, leadership, community and team building skills and facing the challenges in society.

The institute always organizes different extension activities throughout the year to engage the students in community oriented activities to develop a sense of social responsibility, service orientation and holistic development of students. NSS organizes/participates/ observes different activities/programmes as part of regular activities and special camp activities. In addition to this, college has many clubs Such as Students Activity Center, Innovation club, ASME, Entrepreneurship Development Cell (EDC), Chaitanya Bharathi Cultural Club (CBCC), CBIT – MUN, IEEE and ISTE, Communicando Literary Club, ROBOTICS Club, Street Cause, Toast masters Club, Career Guidance Cell (CGC), Society of Automotive Engg (SAE). The institute has certain innovative extension services like psychological counseling and blood donation camps. These activities contribute towards holistic development of students and also become a part of community development.

### **3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?**

The college NSS unit has programme officer/coordinator for organizing/participating in extension activities. The programme officer takes an active role regarding proper notification, programme setting-



up involving the teachers and students. Programme schedule is notified in the display board and also circulated in the class room in advance and propagated among the students. The students are motivated to participate in such activities. Students and faculty members participate actively in extension activities organized by units like blood donation camp, tree plantation, awareness rallies with placards. The faculty also speak on various extension activities and their importance in various NSS camps and on other platforms.

Some of the following NSS events conducted are:

- NSS UNIT of CBIT is organized exclusively by freshmen- events like Road Safety quotations, Quiz competition, Best out of waste etc. in the month of January 2015.
- NSS UNIT represented our college in the Safety Run organized by Cyberabad Police Department at Necklace Road in the month of January, 2015.
- NSS UNIT organized Safety week in the month of March 2015,
- Under the guidance of NSS Student President U.Varsha, civil 3/4, the Unit organized safety run in the college premises .

**Anti-ragging Awareness Campaign:** The Anti-ragging Awareness campaign was conducted on 22<sup>nd</sup> September 2015 in collaboration with CYBERABAD POLICE. The main aim of this program was to educate the students on how obscene the effects of ragging could be on a student. The officials have discussed the issues of anti-ragging.

**Blood Donation Drive:** The LIONS CLUB of jubilee Hills has conducted a blood donation drive on 23<sup>rd</sup> September 2015. Many students came forth to donate blood which was in turn given to NTR Blood Bank. The event was a huge success collecting approximately 300 units. The students and staff of CBIT can avail blood in emergency situations 24/7 for free of cost at NTR Blood Bank.

**Health Camp by DOCTOR 'C' Organization:** A Health camp was held on 30<sup>th</sup> September 2015 for CBIT staff in collaboration with DOCTOR 'C' organization. The health camp included various diagnostic tests such as Diabetes level, Obese level, Blood Pressure, Blood test.

**Legal Awareness Campaign:** The legal awareness campaign was organized along with Metropolitan Magistrate, Rajendra Nagar on 31<sup>st</sup> October 2015. The incentive of this campaign was to collect anti-ragging affidavits "ANTI RAGGING UNDERTAKING BY THE STUDENT".



The officials investigated the students who attended the campaign in high spirits on anti ragging, citing realistic examples.

**Run for Unity:** The birthday of Sardar Vallabhai Patel was celebrated on 31st October 2015 by conducting a run for unity, safety and strength in the premises of CBIT. The NSS body along with CBIT students took part in the run with keen interest and took a pledge for the same.

**Awareness Campaign on Voting:** This Campaign was conducted along with GHMC Election Authorities on 22nd January 2016. The main aim of this campaign is to kindle the importance on voting and to increase the voting percentage. There was an active participation by the students who expressed their views on the present scenario without any hesitation.

**Swachh Bharat:** This program is conducted every Saturday from 3 pm to 4 pm which is organized by the college management with the involvement of NSS body in the college premises.

**As a part of PARIVRITA club:**

In order to live sustainably, Environmental education has been introduced within college systems. We enhance this by providing every person with opportunities to acquire knowledge, attitudes, commitment and skills needed to protect and improve the environment. In this attempt, our environmental club “PARIVRITA” dedicates itself to involve students in environmental activities and to create awareness amongst public regarding environmental issues.

**3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under-privileged and most vulnerable sections of society?**

The vulnerable sections are those who face discrimination include women, scheduled castes, scheduled tribes, children, aged, disabled, people living with HIV/AIDS etc. The College organizes activities which includes Women’s day on 8th March every year. Seminars/Guest lectures are organized on the eve of this day for empowerment of Women. IEEE student chapter organized an event called ' TRANSFORMING SCHOOLS' on 19th August 2015 at KHANAPUR GOVERNMENT SCHOOL. The main objective of the event was to interact with the students and hold competitions which will bring out the creativeness of the students and help them to showcase their skills. Shri.C.V.Anand, the Commissioner of police, Cyberabad, Khanapur Sarpanch and the teachers in the school addressed the student gathering. spoke a few words regarding the importance of education and keeping the surroundings clean and green.





Many above said activities are taken up to ensure social justice and to empower the under-privileged, vulnerable sections of society.

**3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.**

A mega blood donation camp was organized by the NSS Unit, for this Institute has received appreciation from LIONS CLUB for the humanitarian gesture.

**3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?**

The extension activities help complement and supplement the learning outcomes beyond the class room and create awareness among the young citizens about the dynamics of the society which they face in near future. Apart from this, self learning, team work, constructive use of knowledge to benefit the society are some other outcomes.

Extension activities also aimed at inculcating values such as: Social responsibility, Ethics and Human values, societal behavior, communication with community, Team work and Team building.

**3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College which have encouraged community participation in its activities.**

The College and local community share a very good rapport and are in constant touch with each other. Some of the major initiatives undertaken by the college involving various communities are as follows:

**Blood Donation Camp**

The NSS unit of the college has organized blood donation camp in the college premises regularly in coordination with the District Blood Bank.

**Health Awareness Programmes**

The NSS unit of the college has organized various talks by expert doctors of Gomati District Hospital and NGOs for generating awareness about drug abuse, HIV/AIDS, global warming etc. The unit organized an awareness programme for Diabetes and Health Check-up.



The NSS unit participates in various important national rallies with community organizations/clubs to generate awareness among the community about road safety and environmental awareness.

Introduction of special electives such as Human values and Professional Ethics in the curriculum ensures involvement of students in the outreach activities.

**3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Faculty incharge of NSS unit will ensure the student participation in the programmes planned. Anti-Sexual Harassment Committee encourages the participation of women students in various activities. The institute motivates the students to involve in various social movements/ activities through numerous activities organized by NSS unit. Through NSS unit they learn to initiate social movements/activities and become responsible citizens of the country. All departments and various clubs organize a number of seminars/ workshops/ discussions enabling them to exposure to current societal problems and generate awareness regarding their roles and responsibilities in society.

**3.6.9 Give details on the constructive relationships (if any) with other institutions in the nearby locality in working on various outreach and extension activities.**

Blood Donation camp is organized every year in collaboration with "Akhil Bharatiya Terapanth Yuvak Parishad", in association with Lions Club and NTR blood bank, Jubilee hills, Hyderabad. Health check up camp was organized for the faculty in association with Doctor'C' organization, Hyderabad. Issue of Voter Id cards and Aadhar cards arranged for staff in association with local Government authorities (AERO office, GHMC, R.R dist). These programmes create awareness among people in the nearby locality. IEEE student chapter organized an event called ' TRANSFORMING SCHOOLS' on 19th August 2015 at KHANAPUR GOVERNMENT SCHOOL. The main objective of the event was to create awareness among school children's about social activities.

**3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/ community development during the last four years.**

A mega blood donation camp was organized by the NSS Unit, for which, the institute has received appreciation from LIONS CLUB for the humanitarian gesture. Receive appreciation from Khanapur Villagers for organizing social awareness activities in their school



### **3.7 Collaboration**

#### **3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the College benefitted academically and financially because of collaborations?**

The institute has several collaborations with national and international important agencies that helped placing itself on the global map as a premier institute of higher education. These have helped the Institute, directly or indirectly to benefit academically and financially.

Institute has signed many MoUs with Institutions for collaborative research and advanced trainings.

RCI, DRDO Hyderabad has sanctioned a research project entitled "Performance Evaluation of IRNSS in the Context of Position and Velocity". NCRC Lab established in collaboration with SAC, ISRO. These are the benefits accrued from collaboration with SAC, ISRO, Ahmedabad. Collaboration with Dr.Reddy's Labs resulted in knowledge sharing and training programme by name "Certification course on Pharma Process Technology", conducted for executives of Dr. Reddy's Labs.

The college is actively collaborated with many agencies which are listed in section 3.7.3. The participation of students and faculty in the programmes organized under these activities have provided a good platform to showcase the talents and strengths at national level on academic front. Training programs organized in collaborations with various collaborative organizations were contributed for benefiting academically to upgrade the knowledge levels and to fill the gap between the industry and institute. These resulted in introduction of industry oriented electives in the curriculum.

#### **3.7.2 Mention specific examples of, how these linkages promote**

- \* Curriculum development
- \* Internship, On-the-job training
- \* Faculty exchange and development
- \* Research, Publication
- \* Consultancy, Extension
- \* Student placement
- \* Any other, please specify



S.No	Nature of linkages/ Activity	Organization	Beneficiaries	Facilities enhanced
1	Curriculum development/enrichment	Osmania University	Teaching Learning Practice	Curriculum
2	Internship/ On-the-job-training	BHEL, SAC, Dr. Reddy's Labs, ELICO and etc.,	Students, labs and faculty	Internship, Industrial visits and training programs
3	Faculty exchange and professional development	IUCEE	Students and faculty	Knowledge sharing
4	Research, Publication	SAC-ISRO, DRDO, DST etc.,	Faculty and students	Publications, Technical reports and conferences and workshops. To establish research Lab and computing facilities
5	Consultancy	Dr. Reddy's Lab, GE and etc.,	Institute, staff and students	Revenue generation
6	Extension	Lions club, Doctor C and etc.,	Staff and students	Social services, Clean and green
7	Student Placement	CTS, WIPRO, INFOSYS and etc.,	Students	Placements
8	Twinning Programs	Wolverhampton University, Wolverhampton, UK.	Students	New programs
9	Introduction of new courses	Osmania University	Institute	Introduce new Courses

The industry-institution-community interactions have contributed towards enhancing the number of internships, placement services. IIPC is established to promote industry institute interaction. Under this banner many courses/guest lectures/seminars are conducted by involving industry experts. Six MODROBS projects are sanctioned from AICTE, New Delhi to modernize and upgrade the different labs in various departments.

**3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance/other universities/ industries/ corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?**

Some of the MoUs active in the last five years are mentioned below:

S.NO	MOU	MOU Date	Objectives: Teaching Learning, Research and Development activities
1	SMART BUILT PREFAB PVT LTD, HYDERABAD	09/12/2015	Cost effective and innovative prefab solutions for various social infrastructure building and prefab solutions for industrial



			building.
2	ORACLE (WORKFORCE DEVELOPMENT PROGRAM)	04/02/2016	Training on oracle products leading to OCP certification. Enable participating educational institutions to provide training to students in the campus
3	PEGA UNIVERSITY CONNECT PROGRAMM	02/11/2015	Pega system training programme
4	HEXAGON CAPABILITY CENTRE INDIA PVT.LTD, HYDERA BAD	29/09/2015	Provides training to a few faculty and students for adequate acclimatization and exposure to the latest nuances
6	NEN (National Entrepreneurship Network) (Wadhvani), BANGALORE	01/04/2016	To develop impactful programs, people capacity, institutional and organizational structures and policies within the institute partner for entrepreneurship development towards the goal of creating entrepreneurial students, student entrepreneurs, and new entrepreneurs
7	Cybermotion Technologies Pvt.Ltd, HYDERABAD	25/04/2016	Core competency in research, and it will complement our strengths, Grid tie inverter with PLL control, Remote monitoring at server end (IOT), finding comfort level of an automobile ride and Android phone based Image Processing
8	BYNDR TECHNOLOGIES INDIA PVT.LIMITED, Ramanthapur, Telangana	01/03/2016	Integration of Licenses to current information systems and data into the company system, as well as cooperating with the gathering of Licence Data
9	Global business incubator India Private limited, Gollapali, Krishna District, Andhra Pradesh	06/04/2016	Operate a technology business incubator services to all the faculty and students associated.
10	GLOBAL EDUCOM (Guiding Young Leaders), Hyderabad	01/04/2016	Guiding young leaders help students discover their career interest, goals, skills, decision-making process & personality type
11	ICICI Bank, Mumbai	13/11/2015	To encourage and promote talent in premier educational institutions with a view to bring forth new ideas and innovations which can be applied in the banking/finance industry and help in their commercialization.
12	AMD Research & Development Center India Pvt.Limited,	14/10/2015	Students chosen for Co-Ops are in good standing at their school or university, Co-Ops must be able to work full-time during



	Hyderabad		entire period
13	GLOBAL TREE (Unfolding Overseas Opportunities), Begumpet, Hyderabad	09/09/2015	Providing International Education and Career guidance to the students of the Institute. This service will help students understand the opportunities available to them to pursue their higher studies globally.
14	SPACE APPLICATION CENTRE Indian Space Research 5 Organization, Ahmedabad	12/11/2014	To carry research on Navigation and communication
15	Computer Sciences Corporation India Private Limited, Ramapuram, Chennai	25/09/2014	Identifying talents available in the Institutes across India and imparting them in the training so as to equip them to handle the professional expertise and expose them to corporate work environment
16	Dr.Reddy's Laboratories Limited, Hyderabad	30/03/2013	Imparting Induction Training Programmes
17	Unisys Innovation Labs India Pvt.Limited	30/04/2013	Imparting practical Industry training to students and industry exposure to the teaching faculty and provide materials, training through webinars, seminars', workshops, project internships or research internships to students and faculty
18	IBM (webTek Labs Pvt. Ltd ,New Delhi	15/08/2013	DB2 Associate workshop conducted by Vinod Patidar for B.E/B.Tech 3 & 4 year, M.Tech/MCA students
19	Confederation of Indian Industry (CII), Hyderabad	13/11/2013	Amu information assistance
20	International Technological University	22/10/2014	ITU Master's Degree Programs
21	UMASS (University of Massachusetts, Lowell)	26/01/2015	ICTIEE 2016 (IUCEE Consortium for 2016 and providing Institutional Sponsorship for the Third International Conference on Transformation in Engineering
22	AUBURN UNIVERSITY The Alabama Agricultural Experiment Station and PRATHISTA INDUSTRIES LIMITED	23/01/2015	Exchange of scientific and technical staff, exchange of students and staff, conduct joint research activities, participation in seminars and meetings, Special short-term training programs etc.
23	Infosys, Bangalore	30/11/2012	Expectations in the campus connect program partnership
24	CSIR-SERC (Structural Engineering Research	09/07/2012	Formalization of a mechanism of thesis guidance for post -graduate work of a few selected students, provision for exchange of



	Centre),Csir Campus ,Taramani,Chennai, Tamilnadu		scientific and technical information, current and future R & D
25	Cognizant Technology Solutions India Pvt.Ltd	04/08/2011	Established Innovation Lab to supplement research and development activities
26	MEERA FIBRETEK PVT.LTD (MFPL), HYDERABAD	10/02/2011	Focus of the Research areas is on the 'FRP Applications in Civil Engineering Sector
27	ERICSSON	20/09/2010	Imparting training to the seventh semester students of Electronics & Communication trade of the Institute. This training would help students understand the application of technology better
28	Cognizant Technology Solutions India Pvt.Ltd, Chennai	31/08/2007	Campus Relationship management
29	Wipro, Bangalore	18/04/2005	Fostering closer collaboration between the Software Industry and academic Institutions
30	Tata Consultancy Services Limited, Mumbai	27/09/2006	Defining the areas of cooperation, benefiting both the Institute and TCS
31	TECUMSEH PRODUCTS INDIA PRIVATE LIMITED OR TECUMSEH PRODUCTS COMPANY, USA OR AFFILIATED COMPANIES PROPRIETARY INFORMATIONS	12/03/2015	Knowledge Sharing
32	M2 technologies pvt.ltd	20/03/2013	It is on structural core materials, structural sandwich panels. It will provide all the technical details and also provide the materials for testing.
33	BPL Engineering Ltd, Hyderabad	24/02/2003	The detailed drawings of the compressor and its components are to be supplied along with one compressor by BPL
34	DEFENCE METALLURGICAL RESEARCH LABORATORY, HYDERABAD	17/06/2002	Centre for Excellence in the field of "CAD/CAM, Simulation and Rapid Prototyping". Establishing near-net-shape processing technology e.g., super plastic forming
35	InfoTech Enterprises Limited (IEL), Hyderabad	29/06/2001	Training on GIS,AutoCAD, Smallworld and Micro station, Industry Institute relationship
36	NONFERROUS MATERIALS TECHNOLOGY DEVELOPMENT	07/05/2001	NFTDC has identified CBIT as a Centre for Excellence in CAD Analysis



	CENTRE (NFTDC), HYDERABAD		
37	CENTRAL INSTITUTE OF TOOL DESIGN (CITD), HYDERABAD	27/02/2001	CITD Coordinates and actively involves in all the functions of centre of Excellence.
38	NANDURI SOFTWARE SOLUTIONS PvT.Ltd(NSS), Hyderabad	18/02/2000	NSS requires assistance in the areas of CAD/CAM and Analysis Packaged for Training and Consultancy.
39	BDL	03/05/2001	CBIT established "Center of Excellence" like CNC m/cing, CAD/CAM forming regarding this collaboration.

All the above mentioned MoUs fulfilled their objectives. The Institute also has other interactions / collaborations with the following companies for supporting student projects and internships:

S.No	Name of the Company/ Organization
1.	CITADEL Research & Solutions Ltd.
2.	Cyber Technologies Ltd
3.	Vijay Electricals Ltd.
4.	Composite Material Technologies
5.	General Electrical Company
6.	Sri Venkateswara Engg. Industries
7.	Himalaya Electricals
8.	BHEL
9.	ELICO
10.	Voltas
11.	ICI Paints
12.	APSFC (Andhra Pradesh State Financial Corporation)
13.	APREGS (Andhra Pradesh Rural Employment Guarantee Scheme )
14.	JPNCE( Jayaprakash Narayan College of Engg.)
15.	HBL
16.	HIL
17.	Institution of Electrical computer Engg.
18.	Accenture
19.	Mahindra & Mahindra
20.	EdCIL Ltd





21.	Microsoft
22.	Missouri-Rolla University Science Technology, USA

The above said MoUs have contributed towards obtaining the sponsored research projects from funding agencies such as UGC, DST, AICTE, DRDO Labs, etc., MoUs also helped to enhance the number of publications of the institute. With the result of MoUs, the institute benefited in many folds like knowledge sharing, student internships, student projects and also in organizing training programs/ seminars/ guest lecturers/ workshops/ conferences/ intensive courses and finally in campus placements. Involving persons from the collaborative industry to Board of Studies and Academic Council as members, helped in design & development of curriculum and syllabi which makes the students industry ready.

#### **3.7.4 Have the College industry interactions resulted in the establishment/creation of highly specialized laboratories facilities?**

The institute has established the following infrastructure facilities with the help of industry interaction.

Cognizant Technology Solution (CTS) financially supported to the extent of Rs. 6,00,000 for establishing an Innovation lab.

NCRC Lab is established with MoU of SAC, ISRO Ahmedabad.



## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

#### **4.1.1 How does the College plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

The College plans and ensures adequate availability of physical infrastructure and its optimal utilization.

Increase in the intake of students from 962 (UG+PG) in 2011-12 to 1394 (UG+PG) in 2015-16 has also created infrastructure in terms of

- Increase in the number of classrooms from 60 to 70
- Improvement in lab facilities from 80 to 95
- Increase in the number of computer systems from 924 to 1440
- Creation of additional English labs 1 to 4
- Improvement in sports facilities by creating new facilities like indoor stadia
- Increase of mineral water plant capacity from 1000 lph (one plant) to 4000 lph (4 plants)
- Installation of solar panels
- Built up of new blocks (N-block, Sports complex, PG-block extension and R&D building)
- Increase in the number of student buses from 28 to 36

Meticulously drafted timetables in all the departments ensure that the resources like classrooms, computer labs, English labs, and other common labs are optimally utilized in accordance with the AICTE norms.

#### **4.1.2 Does the College have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

The institute follows a positive approach towards creation and enhancement of infrastructure. The Governing Body of the institute is committed in providing state of the art facilities in the institution. The Governing Body analyses the vision-mission statement, increasing intake of students, and feedback obtained from stake holders like parents, employees, alumni and students - to prepare a strategic plan for creation and enhancement of its infrastructure which is in line with the curriculum. Necessary budget is allocated and the regular institute procedures are followed for execution of its plan. To materialize this policy, the following goals are identified:

- To modernize laboratories
- To Automate administrative and academic sections
- To strengthen departmental libraries



- To develop e-classrooms
- To create adequate staff quarters, girls' hostels and boys' hostels
- To construct a state-of-the-art auditorium with a seating capacity of 1500
- To construct an outdoor stadium with a seating capacity of 30,000

In the past four years, new infrastructure has been created for the following:

- Controller of Examination and Spot valuation Center
- Exclusive R&D building
- Extended facility for sports and games
- Additional block for academic activity

**4.1.3 Does the College provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?**

The College provides all the departments with facilities like staff rooms, exclusive office room for Head of the Department. Sufficient waiting halls with rest rooms in every building for girl students are provided. Separate rest rooms for male and female staff and students are also available.

**4.1.4 How does the College ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?**

The physically disabled are equally treated in the institute. It ensures suitable special arrangements for seating during the time of examinations. Students with writing disability are provided with scribe/writer. The Institute provides facilities viz. ramp, wheel chairs. One entrance of every building on the campus leads to ramp and elevator.

**4.1.5 How does the College cater to the residential requirements of students? Mention**

- \* Capacity of the hostels and occupancy (to be given separately for men and women)
- \* Recreational facilities in hostel/s like gymnasium, yoga center, etc.
- \* Broadband connectivity / wi-fi facility in hostel/s.



## Hostel Facility

Facility	Hostel for Boys	Hostel for Girls
Availability of the Hostel	Yes	Yes (Private)
Rooms available	106	40
No. of accommodated students	600	110

- **Recreational facilities, gymnasium, yoga center, etc.** –Institute facilities are very close to the hostel premises
- **Computer facility including access to internet in hostel** – Institute facilities are available beyond the college hours, added to this round the clock Wi-Fi availability is ensured in the hostel.
- **Library facility in the hostels** –The institute facilities are very close to the hostel
- **Internet and Wi-Fi facility** – Available round the clock
- **Recreational facility-common room with audio-visual equipment** – A common room is available with television
- **Constant supply of safe drinking water**– An exclusive RO plant of 1000 lph capacity is available for the students in the hostel and for the staff (of hostel) residential quarters whose quality is periodically monitored as per ISI standards

### 4.1.6 How does the College cope with the health related support services for its students, faculty and non-teaching staff on the campus and beyond?

A health center equipped with four beds and basic necessary health aids is available during the working hours from 9:40 am to 4:15 pm, with a medical officer and a staff nurse.

All the regular staff of the institution are covered under a group insurance policy where the premium is subsidized to the extent of 80% for non-teaching staff and 50% for teaching staff.

### 4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?

Facilities for sports and cultural events, extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc:

S.No	Game	Number
<b>Outdoor Facilities</b>		
1.	Athletics	200m Track
2.	Basketball – Concrete court with fiber boards	1 Court



3.	Cricket	2 Fields
4.	Football	1 Field
5.	Throwball	1 Court
6.	Volleyball	2 Courts
7.	Kabaddi	1 Court
8.	Indoor auditorium	01
9.	Open air auditorium	01
10.	Assembly hall	01
<b>Indoor Facilities</b>		
1.	Badminton – Wooden flooring	2 Courts
2.	Carroms	15 boards
3.	Chess	20 Nos
4.	Table tennis	7 Tables
5.	Tennikoit	2 Courts
6.	16-Session multipurpose Gym	1 No
7.	Commercial Motorized Treadmill	1 No
8.	Commercial Cable Cross Over	1 No
9.	Elliptical Cross trainer Cardio Machine	2 Nos
10.	Multi press	1 No.
11.	Commercial Spin bike	2 Nos
12.	Dumbbell rack , Weight training rods, plates and dumbbells	-
13.	Aerobics & Yoga – Steppers, Gym balls, yoga mats, stretch bands, Spin bike, toning bands and skipping ropes	-

- Computer Assisted Language Learning Lab (CALL) is equipped with 33 computers loaded with Hi Class 4.1 R activity platform and K-VAN Solutions software to enhance pronunciation and phonetic skills as part of undergraduate curriculum
- Interactive Communication Skills Lab (ICS Lab) enables students to express themselves fluently and appropriately in social and professional contexts and provides techniques for preparing and delivering a presentation. The lab also facilitates practicing interview skills via an interpersonal encounter similar to real life situation, to understand and communicate various forms of argument effectively, to develop the ability to analyze, evaluate, construct and refute arguments.
- Soft skills and Employability Enhancement Labs (SS&EE Labs) for students' professional and holistic development
- Students activity Center, Innovation Lab, Open Air Auditorium, Language Laboratory, waiting halls (for Girls exclusively), Health Centre (Medical facilities) are also available. Individual spaces are allotted for ASME, ISTE, Entrepreneurship



Development Cell (EDC), Chaitanya Bharathi Cultural Club (CBCC), CBIT – MUN, IEEE CBIT, Communicando Literary Club, NSS, ROBOTICS Club, EWB club, Street Cause, Toast masters Club, Career Guidance Cell (CGC), Society of automotive Engg. (SAE)

## **4.2 Library as a Learning Resource**

### **4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?**

There is an Advisory Committee for the Library.

- Composition of the Advisory Committee
  - Principal - Chairman
  - Deans - Member
  - HODs - Member
  - Librarian - Convener
- The Library Advisory committee helps the librarian to create new facilities and initiate new services for the benefit of the user.

### **4.2.2 Provide details of the following:**

- \* Total area of the library (in Sq. Mts.)
  - \* Total seating capacity
  - \* Working hours (on working days, on holidays, before examination days, during examination days, during vacation)
  - \* Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
  - \* Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection)
- 
- Total area of the library (in sq. meters.): 1,841 sq.m
  - Total seating capacity : 150 nos.
  - Working hours (on working days, on holidays, before examination days, during examination days, during vacation)  
Library Working Hours
  - Working days : 09:30 am to 7:00 pm
  - On Holidays : Remains closed
  - Before Examination days : 09:30 am to 7:00 pm



- During the Examination Days : 09:30 am to 7:00 pm
- Vacation : 09:30 am to 4:00 pm
  
- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) – It is located in an exclusive building with an area of 18,500 sft. spread over two floors (ground & first).
  - Ground Floor accommodates of :
    - Information Desk
    - Librarian Room
    - Reprographic (Xerox) Room
    - News Papers Reading Facility
    - Reading area
    - Stack Area ( Circulation Books)
    - Circulation Counter
    - OPAC Systems
    - Acquisition Section
  
  - First Floor accommodates of :
    - Reference Books
    - Current Journals
    - Reading Area
      - Individual reading carrels
      - Discussion Rooms for Group Activity
      - Relaxed Reading Environment with comfortable Reading Facility.
  
  - IT Zone for Accessing E-Resources Located in First Floor)
    - ELRC ( Electronic Learning Resource Centre)
      - Exclusive 20 HP i7 Systems with 21” Monitors.
      - Provided exclusive Server to access Online resources
    - Internet and E-Journals Accessing Room
      - Provided INTERNET Facility
      - Pentium Computer to access E.Journals.
    - Exclusive Library Website.
  
- Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently abled users and mode of access to collection



Yes, provided all the necessary guidelines and instructions to Access the resources including:

- Open Access Method of Stacks with Location details.
- Displayed clearly laid Floor Plans
- Displayed all the available Resources
- Displayed Step-by-Step Access Method
- Displayed Dos & Don't in the Library
- Provided Fire Extinguishers

#### 4.2.3 Give details on the library holdings Total No.

- a. Print
- b. (Books, back volumes and thesis)
- c. Non Print (Microfiche, AV)
- d. Electronic (e-books, e-Journals)
- e. Special collection
- f. (eg. Text book, Reference books, standards, patents)

Library Holdings (Total Number)	2012-13	2013-14	2014-15	2015-16
Text books	3541	3722	1813	1570
Reference Books				
Journals/ Periodicals	173	150	149	139
e-resources	3000+	3500+	4000+	5000+

#### 4.2.4 What tools does the library deploy to provide access to the collection?

- \* OPAC
  - \* Electronic Resource Management package for e-journals
  - \* Federated searching tools to search articles in multiple databases
  - \* Library Website
  - \* In-house/remote access to e-publications
- \* **OPAC:** Online Public Access Catalogue (OPAC) has been provided, which can be accessed from any of the computer connected in the campus LAN to know the status of the book.
- \* **Federated searching tools to search articles in multiple databases:**





- \* The institute is subscribing for Federated Search tool i.e. **Kimbus**, to search the articles from multiple databases.
- \* **Library Website:**
- \* The institute has an exclusive Library website: <http://library.cbit.ac.in>
- \* **In-house/remote access to e-publications**
- \* The institute provides access to e-publication by opting IP based access method for in-house access. For remote access we are using cloud computing technology through **Kimbus** software.

#### **4.2.5 To what extent is the ICT deployed in the library?**

- \* Library automation
- \* Total number of computers for public access
- \* Total numbers of printers for public access
- \* Internet band width speed    2 mbps    10 mbps  
1gb (GB)
- \* Institutional Repository
- \* Content management system for e-learning
- \* Participation in Resource sharing networks/consortia    (like Inflibnet)

##### **Library automation**

CBIT Library & Information centre automated its housekeeping operations by using NewGenLib: An integrated Library automation software.

##### **Total number of computers for public access**

In the Library premises 35 computers are provided for public access

##### **Total numbers of printers for public access**

5 Printers provided for the public access.

##### **Internet band width/ speed    □2mbps    □10 mbps    □1 gb (GB)**

(100 + 30) mbps Internet band width / speed.

##### **Institutional Repository**

The institute initiated the process of creation of Institutional Repository by using Dspace open source software.

##### **Content management system for e-learning**

We have an exclusive Server with Content Management Software for e-learning. This facility enables the staff and students to access e-learning resources such as NPTEL Lectures, MIT Lectures etc.



#### **Participation in Resource sharing networks/consortia (like Inflibnet)**

Library & Information centre is part of Resource sharing Networks such as NLIST-INFLIBNET and AICTE-INDEST.

#### **4.2.6 Provide details (per month) with regard to.**

- \* Average number of walk-ins
  - \* Average number of books issued/returned
  - \* Ratio of library books to students enrolled
  - \* Average number of books added during last three years
  - \* Average number of login to OPAC
  - \* Average number of login to e-resources
  - \* Average number of e-resources downloaded/printed
- 
- \* **Average number of walk-ins** - 900 – 1000 Users per day
  - \* **Average number of books issued/returned-** 500-600 Books (per day)
  - \* **Ratio of library books to students enrolled** - 1:6 Ratio
  - \* **Average number of books added during last three years-** 2700 books
  - \* **Average number of login to OPAC** - 300-400
  - \* **Average number of login to e-resources** - 50-75
  - \* **Average number of e-resources downloaded/printed-** 100 downloads per month
  - \* **Number of information literacy trainings organized**—Information Literacy training programs were arranged to the staff and students based on the assessment level of skill of the users. Depending on the need, every year 3-4 programs are arranged for the users.

#### **4.2.7 Give details of the specialized services provided by the library**

- \* Manuscripts
- \* Reference
- \* Reprography
- \* ILL (Inter Library Loan Service)
- \* Information Deployment and Notification
- \* OPAC
- \* Internet Access
- \* Downloads
- \* Printouts
- \* Reading list/ Bibliography compilation



- \* **In-house/remote access to e-resources**
- \* **User Orientation**
- \* **Assistance in searching Databases**
- \* **INFLIBNET/IUC facilities**
  
- \* **Manuscripts-** CBIT Library & information centre is not having the collection of Manuscripts.
  
- \* **Reference-** Library reference services are extended to the users as per the requirement and need.
  
- \* **Reprography-** A separate reprography facility is provided for the benefit of the users. Users can take the photocopy of the required information with permission of the library staff.
  
- \* **ILL (InterLibrary Loan Service) -** Library & Information centre provides the material / books on inter l
  
- \* **Information deployment and notification (Information Deployment and Notification) -**Information uploads are communicated to the Users through emails, blog, website and bulletin board.
  
- \* **OPAC:** Online Public Access Catalogue (OPAC) has been provided, which can be accessed from any of the computer connected in the campus LAN to know the status of the book.
  
- \* **Internet Access: Internet with** (100 + 30) mbps band width speed is provided
  
- \* **Download -**Downloads the required information and stores in the local server for the benefit of the users. Library downloads the required information from the websites and databases for the benefit of the users.
  
- \* **Printing -** There is a facility to print the required information
  
- \* **Reading list/ Bibliography compilation -** Reading List will be prepared and communicated to the users.
  
- \* **In-house/remote access to e-resources -** Library provides the facility of in-house and remote access to the e-resources for the benefit of the users.



- \* **User Orientation** - Library conducts the user orientation and awareness programs to inform/familiarize the library facilities/infrastructure, collection, resources and information services.
- \* **Assistance in searching databases** - Library conducts special training programs to make them familiarize to know various searching tools to retrieve the required data from the databases. Library staff also train/help the users in searching the databases.
- \* **INFLIBNET/IUC facilities-** Library is a member of NLIST Program of INFLIBNET-UGC

**4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.**

During the Year	:	2014-15
Books Budget	:	Rs. 8,33,086
<b><u>Journals Budget</u></b>		
E-Journals	:	Rs. 21,30,600
Print Journals	:	Rs. 15,000

Library holdings	Year -1(2012-13)		Year- 2(2013-14)		Year-3 (2014-15)		Year-4(2015-16)	
	Number	Total Cost in Rs.	Number	Total Cost in Rs.	Number	Total Cost in Rs.	Number	Total Cost in Rs.
Text books	3541	13,31,661	3722	14,82,901	1813	8,33,086	1570	6,49,027
Reference Books								
Journals/ Periodicals	173	16,000	150	15,000	149	15,000	139	28,000
e-resources	3000+	15,50,000	3500+	18,50,000	4000+	21,30,600	5000+	23,60,072
Any other (specify) Racks, Binding etc.		9,59,000		11,00,000		2,00,000		8,00,000

**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.**



Library gets feedback from its users. Users' feedback is collected in two methods,

**First method:** Feedback is collected by the college authorities from all the students through automation process.

**Second method:** Feedback is collected by the Library during the semester and also at the end of the course while giving "No-due Certificate".

The contents of the feedback will be analyzed and necessary steps will be initiated for the improvement of the facilities and services as per the expectations of the user.

#### **4.2.10 List the infrastructural development of the library over the last four years.**

The following is the list of infrastructural developments of the library over the last four years

- Establishment of exclusive e-Learning Resource Centre with 20 i7 HP systems with 21" monitor to access e-lectures of IITs, MIT, etc.
- Addition of 15 Godrej racks to accommodate newly added books

#### **4.2.11 Did the library organize workshop/s for students, teachers, non-teaching staff of the College to facilitate better Library usage?**

Library Staff provides the support to the students and teachers in locating the books, journals and other material. Staff will guide the students about the available resources for their requirement. They also train the staff & students to identify, search and retrieve the required information from the available information sources such as books, journals and databases.

For visually challenged persons, institute library & information centre provides the multimedia computers to hear the video lectures of experts. For physically challenged persons, Library staff helps to locate and issue the required information on their request.

### **4.3 IT Infrastructure**

#### **4.3.1 Does the College have a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?**

The College has a comprehensive IT policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management



#### 4.3.2 Give details of the College's computing facilities (hardware and software).

- \* Number of systems with configuration
- \* Computer-student ratio
- \* Dedicated computing facility
- \* LAN facility
- \* Wifi facility
- \* Propriety software / Open source softwares
- \* Number of nodes/ computers with internet facility
- \* Any other

##### **Number of systems with configuration**

The total number of systems available is 1440 - i3, i5 and I7 processor systems of HP ands DELL make

**Computer-student ratio** : 1 : 3.75

**Dedicated computing facility** : Available

**LAN facility** : Available

**Wi-Fi facility** : Available

##### **Propriety software / Open source software's:**

Some of the propriety software available are: Microsoft Windows 2008 and 2012 servers-OS, Microsoft Windows 7, 8.0, 8.1 & 10, Microsoft Office 2007, 2010, Office 365, Oracle 11g, MATLAB 14, Rational Rose, Multi-sim, Informatica, RHEL6ES and Open source softwares are, Fedora, Ubuntu, Centos.

- \* **Number of nodes/ computers with internet facility**
- \* **Any other**

##### Central Computing Laboratories

<b>Computing Lab</b>	<b>Space</b>	<b>No. of Computers</b>	<b>Usage/ Timings</b>
Programming Lab (C, C++)	384 Sq. m.	70	9.40 am to 4.05 pm
Resource Center (Internet)	140 Sq. m.	66	9.30 am to 6.00 pm



The Departments of CSE, IT and MCA have 14 computer labs and each of the other 7 departments have exclusive computer centers with latest software

#### **4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

As the Institution has become autonomous, keeping in view the increasing intake, programs and also the technology etc, it plans to acquire more computers and related infrastructure with upgraded hardware and software.

Its short term goals include establishment of Electronic classrooms, thorough automation of all administrative and academic sections to become self-sufficient. Added to this many laboratories are also being modernized to ease the tasks of data retrieval and processing.

#### **4.3.4 Give details on access to online teaching and learning resources and other knowledge, and information provided to the staff and students for quality teaching, learning and research.**

The institute encourages ICT backed teaching learning practices to promote innovation and effective learning. The strategies adopted in this direction are:

- Prompt access to e-learning resources is ensured through free high speed internet connectivity (100+30 Mbps), Wi-Fi connectivity for all departments
- Adequate number of internet enabled systems is made available in the libraries, departments, labs and classrooms for the easy access to e-learning resources.
- INFLIBNET , DELNET facilitate access to e-journals
- Multi-media learning is facilitated through an e-classroom with an LCD, speakers and projectors.
- Students are informed about available open e-resources like MIT, NPTEL, MOOCS, NMEICT, QEEE sessions etc, to widen the access to virtual class rooms.

#### **4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.**

Institute is equipped with e-classrooms and other class rooms equipped with LCDs such that the learning processes become more interactive. Faculty is encouraged to develop and use computer-aided teaching and learning processes. Faculty develops computer based teaching material like presentations, which are shared with the students



to carry out learning. Online resources like QEEE, NPTEL and MOOCS are also available.

Students from all departments are required to attend QEEE programmes – A classroom equipped with state of the art facilities like large screen, multimedia facilities and a dedicated high bandwidth internet connection is provided for this purpose.

A coordinator from each department will monitor the activities of the respective department students. Professors and other faculty from institutes like IITs deliver lectures online and real time which also facilitates interaction. Institute incurred a cost of Rs.5,00,000 for creating this facility.

#### **4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?**

- Every department has an exclusive computer center with latest software and high speed internet, required for the preparation of teaching material. Apart from this the departments are also given laptops, Smart Board, Document camera, printers and other accessories for making and presenting computer aided teaching material.
- All the departments have sufficient enough classrooms equipped with LCDs.
- In e-classrooms, computer is connected to internet for any ready reference in pictorial representation, where in the faculty use internet directly in the class room situation.

#### **4.3.7 How are the computers and their accessories maintained? (AMC, etc.)**

Computers and their accessories are maintained as follows:

- Computers and related Infrastructure maintenance is looked after by CMG (Computer Maintenance Group) in coordination with Departments of Computer Science and Information Technology. CMG resolves the issues related to computers, which are received from various departments.
- During the Warranty period, CMG ensures that the suppliers attend to the issues and beyond the warranty period, CMG personnel themselves fix the issues reported.
- CMG also handles need based installation of computer facilities all throughout the college.
- Internet servers and biometric facilities and related upkeep services are maintained by CSE department.





**4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of?**

As of now National Knowledge Network connectivity is offered only to Government colleges.

**4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?**

**Budget and expenses for IT infrastructure (Rs. in lakhs)**

Item	Budget in 2015-16	Expenses in 2015-16	Budget in 2014-15	Expenses in 2014-15	Budget in 2013-14	Expenses in 2013-14	Expenses in 2012-13
Computers and related infrastructure	170.00	144.57	100.00	0.37	130.00	151.72	34.26

**4.4 Maintenance of Campus Facilities**

**4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

The college has a senior teaching staff designated as Maintenance In-charge who oversees the maintenance of buildings, classrooms and laboratories and other infrastructural facilities, with the help of a fulltime maintenance supervisor.

Adequate in-house staff is employed to meticulously maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Classrooms, staffrooms, seminar halls and laboratories, washrooms and the green cover, etc. are maintained by the non-teaching staff assigned for each job.

Optimum working condition of all properties/ equipment on the campus is ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of generators, elevators, air conditioners, CCTV cameras and RO plants. The institute also has trained in-house electricians and plumbers.

**Project office:**

A professional Civil Engineer holds the project office that is responsible for creating infrastructure and carrying out engineering works.



#### **4.4.2 Does the College appoint staff for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained? Give details.**

The institute appoints regular and contract staff for regular maintenance and repair and upkeep of infrastructure and other facilities. Maintenance staff is allotted for various jobs under the following categories:

##### **Buildings and Infrastructure:**

Buildings and related facilities' maintenance is undertaken by the Project office. Based on frequent monitoring of the facilities and the complaints received, timely action is rendered to resolve the problems.

This department also deals with the AMCs for all the elevators, RO plants' maintenance and water quality monitoring, fixing and repairs related to LCDs and screens, replacing spoiled black boards and white boards. Broken glass panes of windows in classrooms and elsewhere are also replaced periodically.

##### **Electrical Facilities:**

- Services of electrical maintenance wing of the Institute are monitored by Maintenance Department. This wing attends to all the electrical related complaints from other departments.
- They also perform regular checks in classrooms and elsewhere to ensure that all lights, fans, ACs are working in proper condition. Problems noticed are rightly fixed.
- This wing looks after the generators and related supplies and ensures immediate backup supply in case of power breakdown.

##### **Laboratories:**

- Regular maintenance check of equipment is carried out in all the laboratories. As per the requirement, minor repairs are carried out by the lab assistant & faculty member. Major repairs are outsourced by following the procedure of the institute.
- Breakdown register is maintained in the laboratories. Necessary accessories and glassware are timely replaced.

##### **Computers and Related Infrastructure:**

- Computers and related Infrastructure is looked after by CMG (Computer Maintenance Group) in coordination with Departments of Computer Science and Information Technology.
- CMG resolves the issues related to computers, which are received from various departments.
- During the Warranty period, CMG ensures that the suppliers attend to the issues and beyond the warranty period, CMG personnel themselves fix the issues reported.



- CMG also handles need based installation of computer facilities all throughout the college.
- Internet and biometric facilities and related upkeep services are maintained by CSE department.

**Other Facilities:**

Other facilities which are frequently monitored and maintained by Maintenance Department are:

- Plumbing concerns
- Regular cleanliness of all the buildings and Toilets
- Supply of raw water to RO plants
- Pest control treatment and monitoring
- Gardening and watering plants
- Basic supplies for campus maintenance



## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

#### **5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?**

##### **Student counseling:**

- The college provides academic supportive environment to the students to continuously motivate them for progression.
- Dean of student affairs takes care of general issues of the students.
- A group of students are attached to a faculty Counselor in each department after admission to follow up their progression in studies as well as provide necessary emotional support in case of slow learners or those having difficulty in adjusting to the new environment.
- The counselor will be in continuous contact with the students as well as their parents throughout their course of study for guidance and advice in building up their career.
- A separate Career Guidance Cell to guide the students for placements and higher studies.
- Training and Placement cell takes care of the employment opportunities for eligible students.
- The Physical Education Department strives to identify talent in sports and extra-curricular activities and encourage the students to outshine in their field without affecting the academics
- Technical and motivational talks by eminent personalities from industry and academia to promote professional, ethical and value based culture among students.

#### **5.1.2 What provisions exist for academic mentoring apart from classroom work?**

- Student chapters of professional societies
- Publication of technical magazine
- Conduct of competitions, participation in curricular, co-curricular activities
- Performance review of students by respective counselors
- Remedial classes for slow learners

#### **5.1.3 Does the College provide personal enhancement and development schemes for students? If yes, describe techniques employed e.g., career counseling, soft skill development, etc.**



- **EDC and IIPC:** These centers are funded by AICTE initially and maintained by the college for continued interaction with industry for academic and employment enhancement of students in order to train them as job providers than job seekers.
- **Career Guidance:** Career Guidance Cell guide students for campus placements, higher studies in India and abroad.
- **Innovation Club:** The club encourages students to explore their creativity and innovative skills in a competitive way
- **Communication Development:** Advanced English Communication Lab is included in UG Curriculum to improve communication Skills.
- Students are encouraged to present papers in the national and international journals/ conferences.
- **Finishing School:** A finishing school on campus is training students to make them industry-ready with necessary skills.
- **Professional Ethics:** Professional ethics subject is introduced in the curriculum to inculcate morals and ethics to be followed in the profession.
- **NSS Unit:** A NSS Unit functions in the college to generate a sense of voluntary service towards societal needs among the student community.
- **Communicando:** It is the literary club of CBIT. The club also runs the exclusive students' newspaper, 'Transcendent' with three editions per semester.
- **CBIT-MUN:** A model United Nations Initiative for the first time of its level in the city of Hyderabad, under the Literary Club of CBIT, Communicando. The CBIT MUN trains people to participate in MUNs and improve their debating skills, social awareness, general knowledge, etc. The people with the best performance get selected as the Executive Board of CBIT MUN.
- **Google Student Club**  
The Google Student Club at CBIT, Hyderabad is a platform that provides opportunities to students to improve their skills in technical and marketing areas. This club aims at conducting many throughout the year in the campus.
- **IEEE and ISTE students Chapters:** These are formed with the spirit of providing students with resources and contacts needed for the enhancement of their professional development. It provides friendly competitions, tours of cutting-edge facilities and a venue to meet and speak with some of the most important working professionals.
- **Robotics Club:** It is a fraternity, not just a group but a fraction of students whose passions dwell in beholding wires and metal beget a



machine that has a brain of its own. The Club offers indispensable guidance, workshops and tutorials along with tools, equipments, components and workspace.

- **Toastmasters Club:** The main objective of this club is to cater to the needs of its members on the important elements of communication such as Learning, Speaking, Reading & Writing (LSRW)

**5.1.4 Does the College publish its updated prospectus and handbook annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?**

The institution publishes its updated information brochure annually, which is also displayed on the institute's website.

The information provided constitutes:

- Genesis and growth of the institution
- Courses offered
- Department wise faculty details
- Infrastructure details
- EAMCET ranks of students admitted during the previous year
- Overall results of out-going students of the previous year
- Research activity
- Computational facilities
- Details of Library and Information Center
- Consultancy services
- Industry Institutional Interaction
- Placements for previous 5 years
- Sports facilities
- Student chapters and club activities
- Developmental plan for the next three years

**5.1.5 Specify the type and number of scholarships / freeships given to students (UG/PG/M.Phil/Ph.D./Diploma/others in tabular form) by the College Management during the last four years. Indicate whether the financial aid was available on time.**

S.No	Category	2015-16		2014-15		2013-14		2012-13	
		No.of Students	Tuition Fee and Special Fee (Rs. In Lakhs)	No.of Students	Tuition Fee and Special Fee (Rs. In Lakhs)	No.of Students	Tuition Fee and Special Fee (Rs. In Lakhs)	No.of Students	Tuition Fee and Special Fee (Rs. In Lakhs)
1	SC	364	362.52	350	296.49	294	188.93	260	132.20



2	ST	181	185.91	155	135.7	132	89.78	107	56.64
3	BC	926	683.67	847	604.2	760	369.52	687	315.19
4	EBC	511	434.73	500	393.65	430	263.13	356	188.82
5	Disabled (PHC)	7	5.14	3	1.03	5	1.7	6	01.97
6	Minority	125	78.87	126	80.81	133	60.4	120	51.21
7	Merit Cum Means Based Scholarship			-	-	3	0.6	1	00.20
8	* GATE	39	58.03	81	77.76	113	108.48	96	92.16
	<b>TOTAL</b>	<b>114</b>	<b>1750.84</b>	<b>2062</b>	<b>1589.64</b>	<b>1870</b>	<b>1082.54</b>	<b>1633</b>	<b>704.02</b>

**Note:** GATE Students Scholarship amount is credited directly online to the Students' bank account. Scholarship amount is disbursed to the students as and when it is received from the Government.

TEQIP: One or two students every year, in each PG program, who qualify PGECET are provided with financial assistance in the form of teaching assistantships based on the funds available

**5.1.6 What percentage of students receives financial assistance from state government, central government and other national agencies? (e.g., Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)**

Around 50% of the UG students (belonging to SC, ST, BC, EBC, Physically Disabled (PHC) and Minority sections) are receiving scholarships from the State Government every year.

The % of PG students receiving GATE scholarships is given below:

Year	2015 - 16	2014 - 15	2013 - 14	2012 - 13
% of students	18	29	36	37

One or two students every year, who qualify PGECET in each PG program are provided with financial assistance, in the form of Teaching Assistantships, based on the TEQIP funds.

**5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?**

International student cell is not required as the college does not have many international students as of now. However, need based assistance is provided.



### 5.1.8 What types of support services are available for

- \* overseas students
- \* physically challenged / differently abled students
- \* SC/ST, OBC and economically weaker sections
- \* students to participate in various competitions/ conferences in India and abroad
- \* health centre, health insurance etc.
- \* skill development (spoken English, computer literacy, etc.,)
- \* performance enhancement for slow learners / students who are at risk of failure and dropouts
- \* exposure of students to other institutions of higher learning/ corporates/business houses, etc.
- \* publication of student magazines

**Overseas Students** - Students from non-English speaking countries are assisted with special classes to improve their English speaking skills, so that they can comprehend other subjects. The undergraduate curriculum is also designed to suit the requirements of such students. Institute also provides need based counseling if required.

**Physically challenged / differently abled students** -It ensures special arrangements for seating during the time of examinations. Students with writing disability are provided with scribe/writer. The Institute provides facilities viz. ramp, wheel chairs and at least one entrance of every building on the campus leads to ramp and elevator.

**SC/ST, OBC and economically weaker sections**– this section of people receive financial support like tuition fee reimbursement, scholarships from the State Government. The Government is also in the process of bringing back the policy of funding them to cater to their books and other study material. Alumni association also identifies and provides financial support to economically weaker students.

**Students to participate in various competitions/ conferences in India and abroad**–Students are provided with full financial support to meet their expenses for travel, accommodation and documentation charges for paper presentations. Special need based training or assistance is also given by the staff, if required.

**Health centre, health insurance etc.** -A health center equipped with four beds is available during the working hours from 9:40 am to 4:15 pm, with a medical officer and a staff nurse, who provides necessary First-aid and Emergency medical services. Students are not covered





under health insurance policies.

**Skill development (spoken English, computer literacy, etc.)** - Curriculum is so designed that courses like English Language Laboratories and Soft Skills and Employability Enhancement aims to cover various aspects like group discussions, resume packaging, mock interviews, professional etiquette, academic ethics and value systems, elements of effective presentation, personality development, stress management and corporate culture to make their transition smooth from campus to corporate. Apart from these, need based workshops are also conducted.

**Performance enhancement for slow learners / students who are at risk of failure and dropouts”-** Class wise faculty coordinators identify the slow learners based on their classroom observation and their sessional marks. They are counseled to identify their problems and accordingly

- More elaborate and simplified information is provided to them
- Physical and manipulative activity based learning is provided wherever possible(flow-sheets, crosswords, skits, demonstrative pictures)
- Teacher’s pace is slowed down, if necessary
- Information is provided in small bits and bytes
- Remedial classes are organized
- More hands on assignments are given and errors are redone correctly
- Close monitoring and personal counseling of the students is done to identify their problems and resolve them in time.

**Exposure of students to other institutions of higher learning/ corporates/business houses, etc.**

- The institute encourages and supports the students to attend Internship programs in various industries, short term research assistant programs at NITs and IITs (Eg: IIT Chennai).
- The Institute also ensures that all the students are taken for at least one industrial visit, which is also a part of curriculum. Such activities,
- Help students gain first hand information regarding functioning of the Industry
- Provides an opportunity to plan, organize and engage in active learning experiences both inside and outside the classroom
- Provides an insight into the real working environment of the Industry
- Helps to enhance their interpersonal skills and communication



skills

- Helps to understand the do's and don'ts of the industrial practice

**Publication of student magazines-** The students receive necessary financial support, and are duly rewarded (with certificates), which is an added credit to their profiles.

**5.19 Does the College provide guidance / coaching classes for Civil Services, Defense Services, NET/SLET and any other competitive examinations? If yes, what is the outcome?**

- The institute library is well equipped with periodicals, competitive examination books and other required materials for preparation.
- Computer labs with internet and Wi-Fi are provided to students beyond the class hours to facilitate preparation for the competitive exams.
- Career Guidance Cell, in coordination with Training and Placement Office also facilitates guest lectures to bring awareness about various career options to the students through such competitive exams.
- Valuable suggestions and support is extended by the faculty, as and when required.
- Activities like mock group discussions, quizzes, spoken English exercises also help the students for preparation.

**CIVIL**

Student Progression	No. of Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	2	1.7	0	0	2.7
CAT	0	0	0	0	0
TOEFL/IELTS	0	3.4	0	5.1	4.4
GRE	0	3.4	0	5.1	4.4
GMAT	0	0	0	0	0
Civil Services	0	0	0	0	0
Other services	Nil	3.4	Nil	3.4	5.3

**CSE**

Student Progression	No. of Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	05	--	--	01	14
CAT	--	--	--	--	--
TOEFL/IELTS	--	--	--	--	--
GRE	--	--	--	--	--



GMAT	--	--	--	--	--
Civil Services	--	--	--	--	--
Other services	--	--	--	--	--

### EEE

Student Progression	No. of Students qualified for various competitive				
	2010-11	2011-12	2012-	2013-14	2014-15
GATE	20	21.21	23.4	25.39	18.57
CAT	7.6	3	9.375	5.405	1.4
TOEFL	4.6	10.6	9.375	6.76	2.85
GRE	6.1	15.15	14	20.27	4.29
GMAT/IELT	-	1.5	-	-	-
Civil Services	-	-	-	-	-
Other services	-	-	4.7	7.9	-

### ECE

Student progression	No. of Students qualified for various competitive exams					
	2010-	2011-	2012-	2013-14	2014-15	2015-16
GATE	4	2	10	15	4	22
CAT	-	-	-	-	-	-
TOEFL	-	-	-	-	-	-
GRE	2	7	-	-	-	25
GMAT	-	-	-	-	-	-
Civil	-	-	-	-	-	-
Other	-	-	-	-	-	-

### Mechanical

Student progression	No. of Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	-	-	-	-	24
CAT	-	-	-	-	-
TOEFL	-	-	-	02	05
GRE	-	-	03	09	08
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	-	-	-	-

### IT

Student progression	No. of Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	1.51	1.33	-	-	-
CAT	1.51	1.33	1.56	-	-
TOEFL	-	-	-	2.85	-



GRE	-	5.33	9.37	11.42	5.40
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	-	-	-	-

### Chemical Engineering

Student progression	No. of Students qualified for various competitive exams					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
GATE	6	12	14	16	10	7
CAT	-	01	-	01	-	01
TOEFL	-	-	-	11	13	14
GRE	-	-	-	11	13	14
GMAT	-	-	-	-	-	-
Civil	-	-	-	-	-	-
Other	-	-	-	-	-	-

### Bio-Technology

Student progression	Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	16	6	10	4	2
CAT	-	-	-	-	-
TOEFL	5	5	4	3	4
GRE	2	5	4	3	3
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	CSIR-NET(1)	-	-	-

### MCA

Student progression	Students qualified for various competitive exams %					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
GATE	-NIL-					
CAT	-NIL-					
TOEFL	-NIL-					
GRE	-NIL-					
GMAT	-NIL-					
Civil Services	-NIL-					
Other services	-NIL-					

### 5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

- \* additional academic support, flexibility in examinations
- \* special dietary requirements, sports uniform and materials
- \* any other



All the eligible students receive State Government scholarships and fee reimbursement through the Institute.

Emergency health care facility, student hostels, free internet and Wi-Fi facility, student transport facility are provided to the students

**5.1.11 Does the College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?**

- Placement Cell of the Institute offers a structured mechanism for career guidance and placement of its students
- Established in 1996 with a major motto of creating career opportunities for promising CBIT students and serve as an interface between the students and the Corporate.
- It provides an extraordinary campus arrangement that motivates and empowers students. Apart from bringing a varied list of recruiters to the campus, it also organizes talks, study abroad seminars, internship opportunities and workshops for the Collective student body. It has an unmatched record of guiding young CBITIANS find their dream career.

Objectives:

1. To equip students with employability skills
2. To empower students with communicative abilities
3. To enrich students with leadership qualities
4. To enable students tackle the interviews with ease
5. To equip students with life coping skills
6. To enable students to land up in the right job

**5.1.12 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus annually for the last four years).**

**Department wise Placement Details (UG, in %)**

S.No.	Branch	2015-16	2014-15	2013-14	2012-13
1.	ECE	88	90	82	86
2.	PRODUCTION	68	62	62	75
3.	IT	85	94	80	86
4.	BIO-TECH	50	63	52	61
5.	CIVIL	53	54	53	64
6.	CSE	86	93	92	89
7.	EEE	84	71	67	67



8.	MED	64	68	67	71
9.	CHEM	48	52	42	69
<b>Overall Placed %</b>		<b>72</b>	<b>75</b>	<b>72</b>	<b>77</b>

#### Department wise Placement Details (PG, in %)

S.No.	Branch	2015-16	2014-15	2013-14	2012-13
1.	MT-CSE	14	40	45	29
2.	ME-ECE	18	24	17	56
3.	ME-EEE	13	23	13	53
4.	CAD/CAM	42	8	7	-
5.	ME-STR	-	-	-	17
6.	MT-CN&IS	14	14	-	-
7.	ME- ES& VLSI	67	31	25	-
8.	ME THERMAL	11	17	17	-
9.	MCA	30	28	29	57
10.	MBA	20	-	31	83
<b>TOTAL</b>		<b>24</b>	<b>14</b>	<b>26</b>	<b>50</b>

#### List of Employers

S.No	List of Companies
1.	Accenture
2.	Accolite
3.	Apoorva IT Solutions Pvt. Ltd.,
4.	ATOS
5.	Bank of America
6.	Biological E.Limited
7.	CA Technology
8.	Callidus Cloud
9.	Capgemini
10.	Capital IQ
11.	CDK Global
12.	Cognizant
13.	Deloitte
14.	Deloitte Intern
15.	Deloitte Tax (MBA)
16.	Dupont - Internship
17.	eHELIUM
18.	Electronics Arts - Internship
19.	FMC Technology
20.	Hexagon
21.	Hexagon - internship
22.	HIL



23.	HSBC
24.	HUL
25.	Hyundai
26.	Hyundai Mobis
27.	Infosys
28.	INSPIRAGE
29.	INVESO (MBA)
30.	JARO EDUCATION SOLUTIONS (MBA)
31.	JP MORGAN
32.	JP MORGAN (CODE FOR GOOD)
33.	L&T METRO RAIL
34.	MRF MBA
35.	MYCLASSBOARD (MBA)
36.	Nayan Hardware Pvt Ltd.
37.	NCR corporation
38.	NEKTAR THERAPEUTICS
39.	Next Education Indian Pvt Ltd.
40.	Oracle
41.	PEGA systems
42.	PROGRESS SOFTWARE - INTERNSHIP
43.	RIKTAM
44.	RIKTAM - Internship
45.	Riktam Technology Consulting Pvt. Ltd
46.	STRATAGEM Solutions
47.	Sunera Technologies Pvt. Ltd.
48.	Thinktankers Internship
49.	Unistring Tech Solutions Pvt Ltd, (INTERNSHIP)
50.	United Health Group (UHG)
51.	UURMI Systems (Internship)
52.	Verity Knowledge Solutions(MBA)
53.	VISA INC
54.	WIPRO
55.	Zomato

**5.1.13 Does the College have a registered Alumni association? If yes, what are its activities and contributions to the development of the College?**



The institute has a registered Alumni Association.

**Activities and Major Contributions:** Alumni Association, under the title of CHAITANYA SMRUTHI

- Organizes reunions on December 25<sup>th</sup> of every year
- Conducts "Carpediem", the biennial Techno-Cultural fest of the institute
- Also deliver guest lectures and mentor the students on their visits to the Institute
- Alumni association also helps the economically backward students through financial assistance.
- They also donate books to the department libraries
- Their constructive feedback contributes to the improvement of infrastructure facilities, meticulous curriculum planning, etc., for the overall academic excellence of the institute.

**5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.**

It is constituted by distinguished professors and the Principal of the institute. The committee has formulated the policy on matters coming under the scope of the unit and the modalities for dealing such matters and its authority. No, serious issues have been reported until now.

**5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?**

Institute has constituted an anti-sexual harassment committee comprising of senior faculty, which is bound to resolve sexual harassment cases. It was constituted on 08-07-2013 and reconstituted on 05-01-2016. No, serious issues have been reported to the committee.

**5.1.16 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

- There is an anti-ragging committee constituted by the Institution, comprising the Principal, senior teaching staff, women staff, non-teaching staff, distinguished parents and student representatives.
- The committee takes necessary action to prevent ragging and in case of the same, timely action is rendered and also has the rights to take "SPOT DECISION" in case of urgency.





- The committee frames a timetable for the college staff for anti-ragging duty in the areas such as, bus bays around the college, boys and girls hostels, canteen, sports complex, parking lots and also college premises.
- In the past four years 18 cases have been reported. Sub committees have been set up to probe into the issues.
- After the investigation, the guilty have been punished in the form of fine, suspension, counseling to the students in the presence of their parents, depending on the intensity of the case reported.

**5.1.17 How does the College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation, etc. ?**

The College elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co-curricular activities, research, community orientation, etc by obtaining constructive feed back on faculty, curriculum and other infrastructural facilities etc.

**5.1.18 What special schemes/mechanisms are in place to motivate students for participation in extracurricular activities such as sports, cultural events, etc?**

Students receive necessary financial support in the form of

- Travel and accommodation allowances
- Infrastructure facilities like computers, internet, lab facilities, stationary, etc.
- Printing and postage charges
- Need based training or preparation by the faculty

**5.1.19 How does the College ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities? Provide details of sports and cultural activities in which such efforts were made?**

The College ensure participation of women in ‘intra’ and ‘inter’ institutional sports competitions and cultural activities by providing all the necessary infrastructure facilities by paying TA/DA for out side programmes. To support in sports a women assistant physical director has been recruited. The college has a cultural club with all the necessary facilities to encourage with the support of women faculty members.



## 5.2 Student Progression

### 5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the College compare itself with the performance of other autonomous Colleges/universities (if available)

Details are programme-wise success rate of the College for the last four years are provided in 2.6.4.

### 5.2.2 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the observed trends.

#### Department wise student progression CIVIL

Student Progression	Percentage (%)				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	2%	7%	0%	8.5%	7%
PG to M.Phil.	NA	NA	NA	NA	NA
PG to Ph.D.	Nil	Nil	Nil	Nil	Nil
Employed • Campus selection	98%	76%	57%	53%	54%
Other than Campus recruitment	Nil	3.4%	Nil	3.4%	5.3%

#### CSE

Student progression		Against % enrolled	
UG to PG		15	
PG to M.Phil.		-	
PG to Ph.D.		1	
Ph.D. to Post-Doctoral		-	
<b>Employed</b>			
Campus selection			
Academic Year	Total Students	No. of students placed	% of students
2014-15	130	118	90
2013-14	123	113	91
2012-13	117	102	87
Other than campus recruitment		10%	



Entrepreneurship/Self-employment	1%
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### EEE

Student progression	Percentage (%)				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	9.2	9	15.625	33.3	7.14
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	5.5	-	-	-	-
Employed • Campus selection	72	74	64	66.6	68.5
Other than campus recruitment	-	-	4.7	1.5	-

### ECE

Student progression	Percentage (%)					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	>8%	>7%	>14%	>14%	>8%	>12%
PG to M.Phil.	-	-	-	-	-	-
PG to Ph.D.	-	2%	-	-	1%	2%
Employed • Campus selection	82.26	87.50	72.43	68.30	75.40	71.06
Other than campus recruitment	--	--	--	--	--	--

### Mechanical

Student progression	Against % enrolled
UG to PG	20 (To pursue MS Programs)
PG to M.Phil	- N. A -
PG to Ph.D	1
Ph.D. to Post-Doctoral	- N. A -
Employed	
Employed • Campus selection	80%
Employed • Other than campus recruitment	10%
Entrepreneurship/Self-employment	-Nil-



## IT

Student Progression	Percentage (%)				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG			4.68	21.42	4.05
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-
Employed Campus selection	89.3	78.6	81.2	62.8	87.8
Other than campus	-	-	-	-	-

## Chemical Engineering

Student Progression	Percentage (%)					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	13.3	18.4	25.4	30.7	17.8	10.6
PG to M.Phil.	-	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-	-
Employed Campus selection	60	80	70	43	64	48
Other than campus recruitment	18	9	2	8	2	-
Entrepreneurship/Self- employment	2	3	-	2	2	2

## Bio-Technology

Student Progression	Percentage(%)				
	2010-11	2011-12	2012-13	2013-14	2014-15
UG to PG	0.16%	0.28%	27%	0.14%	0.21%
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	3	-	-
Employed Campus selection	81%	73%	53%	50%	56%
Other than campus recruitment	-	-	-	-	-

## MCA

Student progression	Percentage (%)
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	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	Not Applicable					
PG to M.Phil.	-Nil-					
PGtoPh.D.	-Nil-					
Employed Campus selection	40	43	37	15	14	12
Other than campus recruitment	Not Available					

### 5.2.3 What is the Programme-wise completion rate/dropout rate within the time span as stipulated by the College/University?

#### Programme wise completion rate (2011-2012 to 2015-2016) (Pass Percentage)

S. No	Course	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
<b>Under Graduation</b>						
1	B.E (Civil)	89	92	87	93	93
2	B.E (CSE)	97	93	92	98	98
3	B.E (EEE)	89	95	97	99	100
4	B.E (ECE)	93	96	99	98	97
5	B.E (Mechanical)	100	94	84	94	99
6	B.E (IT)	91	94	89	93	98.18
7	B.E (Production)	85	86	83	91	96.23
8	B.Tech (Chemical)	94	91	71	92	87.5
9	B.Tech (Bio-Tech)	93	88	77	90	92.25
<b>Post Graduation</b>						
1	M.E(Civil)Structural Engg.	46	45	48	52	-
2	M.E(Civil)Earthquake Engg.	-	-	-	40	56
3	M.Tech(CSE)	67	86	83	80	70
4	M.Tech(IT)-Computer Network and Information System	-	-	-	80	100
5	M.E(ECE) Communication Engg.	67	78	94	89	69
6	M.E(ECE) Embedded System and VLSI	-	-	78	94	92
7	M.E(Mech)-Thermal Engg.	-	-	88	92	92
8	M.E(Mech)-CAD/CAM	20	70	80	74	92
9	M.E(EEE) Power	67	61	72	81	78



	Electronics					
10	MBA	100	90	96	79	87
11	MCA	88	93	95	88	88

#### Dropout rate

YEAR	B.E/B.Tech	M.E/M.Tech	MBA	MCA
2010-2011	0	3	3	3
2011-2012	4	4	1	1
2012-2013	2	3	2	4
2013-2014	1	4	7	0
2014-2015	9	0	1	0
2015-2016	8	0	0	0
<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>14</b>	<b>8</b>

**5.2.4 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, GATE/CAT/GRE/TOFEL/GMAT/Central/State services, Defense, Civil Services, etc.**

#### CIVIL

Student Progression	No. of Students qualified for various competitive exams %				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	2	1.7	0	0	2.7
CAT	0	0	0	0	0
TOEFL	0	3.4	0	5.1	4.4
GRE	0	3.4	0	5.1	4.4
GMAT	0	0	0	0	0
Civil	0	0	0	0	0
Other	Nil	3.4	Nil	3.4	5.3

#### CSE

Student Progression	No. of Students qualified for various competitive exams %				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	05	--	--	01	14
CAT	--	--	--	--	--
TOEFL	--	--	--	--	--
GRE	--	--	--	--	--
GMAT	--	--	--	--	--
Civil	--	--	--	--	--
Other	--	--	--	--	--

#### EEE

Student	No. of Students qualified for various competitive exams %
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Progression	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	20	21.21	23.4	25.39	18.57
CAT	7.6	3	9.375	5.405	1.4
TOEFL	4.6	10.6	9.375	6.76	2.85
GRE	6.1	15.15	14	20.27	4.29
GMAT	-	1.5	-	-	-
Civil	-	-	-	-	-
Other	-	-	4.7	7.9	-

### ECE

Student progression	No. of Students qualified for various competitive exams %					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
GATE	4	2	10	15	4	22
CAT	-	-	-	-	-	-
TOEFL	-	-	-	-	-	-
GRE	2	7	-	-	-	25
GMAT	-	-	-	-	-	-
Civil	-	-	-	-	-	-
Other	-	-	-	-	-	-

### Mechanical

Student	No. of Students qualified for various competitive exams				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	-	-	-	-	24
CAT	-	-	-	-	-
TOEFL	-	-	-	02	05
GRE	-	-	03	09	08
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	-	-	-	-

### IT

Student	No. of Students qualified for various competitive				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	1.51	1.33	-	-	-
CAT	1.51	1.33	1.56	-	-
TOEFL	-	-	-	2.85	-
GRE	-	5.33	9.37	11.42	5.40
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	-	-	-	-

### Chemical Engineering

Student progression	No. of Students qualified for various competitive exams %					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16



GATE	6	12	14	16	10	7
CAT	-	-	-	-	-	-
TOEFL	-	-	-	-	-	-
GRE	-	-	-	-	-	-
GMAT	-	-	-	-	-	-
Civil	-	-	-	-	-	-
Other	-	-	-	-	-	-

### Bio-Technology

Student progression	Students qualified for various competitive exams %				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	16	6	10	4	2
CAT	-	-	-	-	-
TOEFL	5	5	4	3	4
GRE	2	5	4	3	3
GMAT	-	-	-	-	-
Civil	-	-	-	-	-
Other	-	CSIR-NET(1)	-	-	-

### MCA

Student progression	Students qualified for various competitive exams					
	2010-	2011-12	2012-13	2013-14	2014-15	2015-16
GATE	-NIL-					
CAT	-NIL-					
TOEFL	-NIL-					
GRE	-NIL-					
GMAT	-NIL-					
Civil Services	-NIL-					
Other services	-NIL-					

#### 5.2.5 Provide details regarding the number of Ph.D/D.Sc./D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.

Not applicable as the institute does not offer these programmes.

### 5.3 Student Participation and Activities

#### 5.3.1 List the range of sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.





### List of Sports and Games

S.No	Game	Number
<b>Outdoor Facilities</b>		
1.	Athletics	200 m Track
2.	Basketball – Concrete court with fiber boards	1 Court
3.	Cricket	2 Fields
4.	Football	1 Field
5.	Throwball	1 Court
6.	Volleyball	2 Courts
7.	Kabaddi	1 Court
<b>Indoor Facilities</b>		
1.	Badminton – Wooden flooring	2 Courts
2.	Carroms	15 boards
3.	Chess	20 Nos
4.	Table tennis	7 Tables
5.	Tennikoit	2 Courts
6.	16-Session multipurpose Gym	1 No
7.	Commercial Motorized Treadmill	1 No
8.	Commercial Cable Cross Over	1 No
9.	Elliptical Cross trainer Cardio Machine	2 Nos
10.	Multi press	1 No.
11.	Commercial Spin bike	2 Nos
12.	Dumbbell rack , Weight training rods, plates and dumbbells	
13.	Aerobics & Yoga – Steppers, Gym balls, yoga mats, stretch bands, Spin bike, toning bands and skipping ropes	

The Physical education department organizes a sports fest “AURA” as part of “SRUTHI” (organized by Cultural Club) as part of cultural fest of the institution every year in the month of Feb-March to encourage the students to participate in Sports and extra-curricular activities.



## **Cultural and Other Extracurricular Activities**

### **ASME Chapter**

It is a technical club of mechanical department which enhances technical, professional and networking skills of student. Since its inception, it has scaled very great heights in both national and international competitions. The club is currently working to maintain the same momentum in SPDC-2016 at VIT.

### **Chaitanya Bharathi Cultural Club (CBCC)**

Chaitanya Bharathi Cultural Club is bestowed with the privilege of organizing the annual cultural fest of CBIT by the name 'SHRUTHI'-a three day fest. The club gives an opportunity to every individual in the fields of Art, Music, Dance and many more. Culture, heritage and Art are the personified signatures of civilization and lifestyle. To become better connoisseur of art and develop optimism are additional subtle feelings conveyed by this club.

### **Communicando**

It is the literary club of CBIT. The flagship events are 'Literati' and CBIT Model United Nations, Literati is the first exclusive literary festival organized annually. The fifth edition had 1200 participants from various colleges across the country. The CBIT Model United Nations is one of India's largest student-run conferences. The club also runs the exclusive students' newspaper, Transcendent with three editions per semester.

### **CBIT-MUN**

A Model United Nations Initiative for the first time of its level in the city of Hyderabad, under the Literary Club of CBIT, Communicando. The CBIT-MUN is one of the most reputed ones in Hyderabad MUN circuit, and is well known in the national MUN circuit. The CBIT MUN trains people to participate in MUNs and improve their debating skills, social awareness, general knowledge, etc. The people with the best performance get selected as the Executive Board of CBIT MUN.

### **Entrepreneurship Development Cell (EDC)**

EDC was formed out of passion by the students of CBIT and it mainly concentrates on bringing out the business culture in the campus by conducting awareness drives, seminars by the young entrepreneurs in the city. Techno entrepreneurship summit was a three day fest conducted in February 2015 which stands as an epitome for the novelty in conducting events.

### **Google Student Club**



The Google Student Club at CBIT, Hyderabad is a platform that provides opportunities to students to improve their skills in technical and marketing areas. This club aims at conducting many events throughout the year in the campus.

### **IEEE Chapter**

The CBIT IEEE students Chapter was formed with the spirit of providing students resources and contacts needed for the enhancement of their professional development. It provides friendly competitions, tours of cutting-edge facilities and a venue to meet and speak with some of the most important working professionals. It is intended to provide a platform for students to display as well as enhance their skills. IEEE membership provides many programs and presents yet another chance for students to stay a step ahead on the path to their chosen fields.

### **ISTE Chapter**

The major objective of the ISTE (INDIAN SOCIETY FOR TECHNICAL EDUCATION) is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the organizations. The ISTE student Chapter would provide communication skills development, training for self-employment, guidance on job opportunities in India and abroad, arranging training in industries and visits to industry, special coaching, general counseling, etc.

### **NSS Unit**

It is an official club of CBIT. Service to mankind is its motto. The main activities of NSS unit are plantation, blood donation camp, Services at orphanages and old age homes, Road safety, Anti ragging squads, Medical camps in villages, Environmental awareness and programs, service to physically and mentally challenged people, issue of Voter ID cards to students and staff, first aid training to students and staff, Fire fighting mock drills.

### **Robotics Club**

It is a fraternity, not just a group but a fraction of students whose passions dwell in beholding wires and metal beget a machine that has a brain of its own. The Club offers indispensable guidance, workshops and tutorials along with tools, equipments, components and workspace. The family meets periodically to discuss over matters such as the management of the workspace, workshops, projects and competitions.

### **Society of Automotive Engineering (SAE)**



SAE promotes careers and excellence in engineering as it encompasses all aspects of the automotive industry including research, design, manufacturing, testing, developing, marketing, management finances.

### **Street Cause**

It is an NGO comprising of students who intend on doing their bit for the betterment of society. Within a year from its inception in 2009, it has radically grown from being a local guild of adherents, with the objective of helping the underprivileged and the destitute in every way possible to being an internationally renowned organization. Street Cause has completed over 85 tasks. A few events have been conducted in collaboration with corporate such as Deloitte, Gold Drop Industries, Indian Red Cross Society and others. It has collaboration with organizations from various countries like United States, Ukraine, Ghana, Gambia, Liberia, Afghanistan, Bangladesh and Nepal.

### **Toastmasters Club:**

Toastmasters Club took its birth in the year 2012. Toastmasters is an International voluntary organization originated in California, USA which is 90 years old. Almost every MNC across the world has made this club as a part of their organization so that holistic development takes place amongst it's employees. We take pride in stating that CBIT is the only college to have adopted this club which includes dynamic youngsters.

The main objective of this club is to cater to the needs of its members on the important elements of communication such as Learning, Speaking, Reading & Writing (LSRW).

Toastmasters club conducts their regular, by weekly meets and exchange their knowledge in various fields, so as to provide each and every member of the club a chance to speak in every meet, which in turn helps in improving public speaking skills, get rid of stage fright and help them learn the professionalism. Special meets and conferences are conducted annually which invites a huge gathering from various MNC's, NGO's and educational institutions that imbibes team work, leadership qualities and provides a huge platform of networking across many cities.

And they say "Once a toastmaster is always a toastmaster and it's a way of life". They're passionate towards public speaking and everyone has their own mentor which lubricates the progress thereby enhancing one's professional growth. Toastmasters - where leaders are made.

### **5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extracurricular activities and cultural activities at different levels: University/**



### **State/ Zonal/National / International, etc.**

#### **Sports Achievements in the year 2015-16**

- A Ravali – 3/4 CSE – Basketball – III Place – National level women sports Competition, held at Jammu during 12<sup>th</sup> – 15<sup>th</sup> December 2015.
- A Ravali – 3/4 CSE – Table tennis – III Place – South Zone Inter University Table tennis Tournament – held at Vikramasimha University, Kavali – from 27<sup>th</sup> – 31<sup>st</sup> January 2016.

#### **Sports Achievements in the year 2014-15**

- Mr. M Chakravarthi Reddy – 1/4 ECE – Chess – 61st position with 6.5 points – Represented India in World Chess Championship under 20 years at Pune, Maharashtra from 5<sup>th</sup> October – 20<sup>th</sup> October 2014.
- Mr. M Chakravarthi Reddy – 1/4 ECE – Chess – First with 6.5 points – Represented India in Asian Youth Chess Championship under 18 years at New Delhi from 06<sup>th</sup> November – 14<sup>th</sup> November 2014.

#### **Sports Achievements in the year 2013-14**

- Dhruv Patel – 2/4 Mechanical – Inline Hockey – Silver – 51st National Roller Skating Championship – Sirsa, Hariyana from 11<sup>th</sup> – 17<sup>th</sup> Dec. 2013.
- Dhruv Patel – 3/4 Mechanical – Roller Hockey – Gold – Hyderabad district Roller skating Championship – Osmania University Cycling Velodrome on 21<sup>st</sup> & 22<sup>nd</sup> October 2014.
- Dhruv Patel – 3/4 Mechanical – Inline Hockey – Gold – Hyderabad district Roller skating Championship – Osmania University Cycling Velodrome on 21<sup>st</sup> & 22<sup>nd</sup> October 2014.

#### **Sports Achievements in the year 2011-12**

- G.Saharsh Reddy – 1/4 CSE – Badminton – Winners – in South Zone Inter University Badminton Tournament – held at VIT, Vellore from 05<sup>th</sup> – 10<sup>th</sup> January 2012.
- S.Srikanya – 3/4 ECE2 – Volleyball – Winners – 37<sup>th</sup> A.P Senior Inter District Volleyball Championship – Representing Rangareddy district – held at Sanghi school, Rangareddy district from 14<sup>th</sup> to 17<sup>th</sup> December, 2011.

### **5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?**

Feedback from students is collected on support services and through questionnaires, on the institute's web portal. Principal discusses the same with the concerned staff and suggests improvements, if needed.



#### **5.3.4 Does the College have a mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the College?**

- Departments have the practice of collecting feedback from the graduating students on various attributes and wherever possible, the suggestions are implemented. The suggestions are mainly in the areas of curriculum, sports and library facilities.
- Feedback is also collected from the graduated students in addition on the reunion day (Alumni) every year, whenever they visit the campus. Suggestions are based on their experience in the industry and are mapped with the curriculum. Wherever gaps are identified, necessary corrective measures are implemented/ incorporated.
- Suggestions are in the form of curriculum / infrastructure upgradation to suit the industry needs as it would minimize the time for adaption of new technologies to the graduating students.
- Employer feedback plays a key role in the quality of the institutional provisions. At the time of Campus Placements, Employers provide feedback to the placement office. These include upgradation of communication and technical skills of the students, innovative methodologies to be adopted to acquire these skill sets. These suggestions are communicated to the respective Board of Studies of various departments in the institute.
- Also alumni and industry representatives are in the Board of Studies of all departments. Their suggestions, data on various attributes collected in the form of feedback are collectively implemented if found suitable. This would help in the process of curriculum enhancement to make it industry ready.

#### **5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the major publications/ materials brought out by the students during the previous academic session.**

The students receive financial support, rewards (certificates) and relentless help from the faculty to publish:

CELERITAS – Annual student magazine which is a right platform to showcase their latent, inherent talent. It facilitates a creative space for the expression of new ideas and innovation. Four editions have been published since 2012.

TRANSCENDENT – College Newspaper run by COMMUNICANDO (the literary club of the institute) is released in three editions every semester. It is aimed at providing a platform for the students to voice



their opinions and to experience firsthand journalism. It includes articles on various areas like Politics, Sports, Entertainment, Technology and reviews on books, movies, blogs, gadgets etc.

**5.3.6 Does the College have a Student Council or any similar body? Give details on its constitution, major activities and funding.**

The college has a Student Council comprising of class representatives of all the sections in all the UG and PG programs, who are selected on the basis of academic merit.

**5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.**

Student representatives play a vital role in organizing the institute's Annual Cultural Fest (SHRUTHI), Organizing committee for the Institute's Annual Technical Fest (SUDHEE) and Anti-ragging committee.

SHRUTHI organizes various sports and cultural programmes and SUDHEE organizes various technical programmes in which students actively involve in planning, organizing, co-ordinating and participating.



## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

#### **6.1.1 State the vision and mission of the College.**

CBIT was established in the year 1979 and has been serving the cause of technical education by fulfilling the aspirations of all the stakeholders of the State in particular and the Nation in general.

The vision and mission of CBIT is:

**Vision** - `To be a centre of excellence in technical education and research` and

**Mission** - `To address the emerging needs through quality technical education and advanced research`.

#### **6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc.**

The stated vision and mission address the needs of the society, the students it seeks to serve, College's traditions and value orientations, vision for the future.

The college aims at grooming students as professional technocrats and managers by providing learning opportunities and infrastructure facilities to cater requirements of dynamically changing industry from time to time. This is achieved by proactive management, experienced & well qualified faculty members having good academic, industrial and research expertise, with skilled supporting staff. The mission further is monitored and measured by the following objectives:

- To provide value based technical and management education.
- To promote industry/market ready professionals through excellent innovative classroom teaching, practical training including soft skills and personality development.
- To continuously update the curriculum to cater to the needs of rapidly changing industry.
- To undertake academic research in collaboration with academic, industry and research institutes.
- To provide campus placements in reputed international and national companies for all the eligible students.
- To promote co-curricular activities among students by means of various clubs like, innovation club, Chaitanya Bharathi Cultural club (CBCC), IEEE students chapter, ISTE - CBIT local students chapter, CBIT-Toast masters club, Communicando-literary club,





CBIT-MUN, Entrepreneurship Development Cell (EDC), Industry -Institute Partnership Cell (IIPC), Google Students club, NSS unit, NCC unit, Robotics club, Society for Automotive Engineering (SAE), Street Cause, Parivritha, etc.

- To promote extra-curricular activities among students by providing state-of-the art sports complex and other related facilities
- To promote incubation centers
- To provide all the Entrepreneurial skills through EDC, IIPC, and other related programmes to transform our students as Entrepreneurs, i.e. job providers rather than job seekers - in line with the motto of CBIT- Swayam Tejaswin Bhava

The characteristics like offering requisite theoretical and practical knowledge, societal awareness of the mission statement are well incorporated in the curriculum, enabling the graduates to work for the society in their chosen area.

The mission statement expands the scope for learning, research and development, obtaining solutions which can be of immediate utility in effectively dealing with problems, the society is facing and expected to improve the quality of living in future.

Simultaneously, the mission statement offers scope for orientation to its learners to inculcate values and time tested traditions.

The mission statement also guides the policy matters and the course designers to realize needs of the future society duly assessing the emerging needs of the society, academia and the industry from time to time. The same belief is reflected in the vision statement of the institution also.

### **6.1.3 How is the leadership involved in**

- \* ensuring the organization's management system development, implementation and continuous improvement
- \* interaction with stakeholders
- \* reinforcing culture of excellence
- \* identifying needs and championing organizational development (OD)?

#### **Ensuring the organization's management system development, implementation and continuous improvement:**

The management ensures decentralization by creating Deans to help the Head of the institution in day-to-day activities at the top of a multi-tier system of administration with HoDs on the academic front.

- The management, Principal and the HoDs interact with the



parents by conducting annual meetings. The administration on its part is accessible to them at different levels for any help or guidance to benefit the students.

- The student interactions are regular for curriculum development, improvement in learning skills and counselling on career and growth as well as matters of personal interests/concerns.
- The industry interaction is of supportive and participatory nature in developing the curriculum training the student and faculty and in recruiting students.
- The societal interactions help in designing, training, assessing the moral and ethical standards the college wishes to maintain during and after studies in their interactions with society in general and industry in particular. Inviting experts from reputed institutions/universities like IITs, IIITs, NITs and industry to up-date the knowledge levels and cutting edge technologies in tune with the dynamic changing industry and enforce research culture.
- Students are encouraged, advised/guided to participate in competitive paper presentation, model making, projects etc., on the academic front as well as cultural, sports and games meets to bring out their talents and excel in their fields of interest without affecting the academics - the college students brought several laurels in this direction.
- The developmental needs are identified during the Governing Body meetings from time to time by reviewing and trying to eliminate the hurdles involved in functioning as well as furthering the progress of the institution. The process involves in resource mobilization in terms of finances, man power, expertise in the targeted directions.

A parallel system of office management exists to assist the principal in the governance in general.

The Governing Body on its part supports the college administration with timely decisions and approvals on developmental matters.

Management capacity enhancement training is being imparted to those identified as future leaders for continuing the policies.

- Management Capacity Enhancement training is provided to faculty at different cadres.



- Deans are allotted in all-important administrative areas to assist the Principal in key decision-making process in implementation of college mission and continuous improvement.
- Meetings are conducted under the leadership of the Principal with Deans and HoDs, periodically, to review the progress of ongoing works and discuss the working plan of upcoming activities.

#### **Interaction with stakeholders:**

Feedback from the stake holders at various levels is analyzed and important inputs are taken into consideration in all management decisions. Involving stakeholders like alumni, industry and faculty in curriculum design through BoS and Academic Council.

All the issues related to faculty, staff and students are discussed in the meetings of the Principal and HoDs and the same is recorded in minutes which are circulated to all the departments. The decisions taken and the issues discussed in meetings of the HoDs are informed to the faculty in the department level meetings.

Suggestions are invited from the alumni through an exclusive web portal apart from interactive sessions during alumni meets, including re-union day i.e. 25th December every year.

Enhanced interactions are facilitated through MoUs with industry in collaborative activities like training, skill development programmes in latest cutting edge technologies to cater the industry needs for faculty, technical staff and students.

Parents' feedback helps in the betterment of student amenities, socio-cultural environment and gender sensitization for maintaining a healthy academic atmosphere.

#### **Reinforcing the culture of excellence:**

The main aim of all the efforts of the college is to manifest excellence in every pursuit undertaken by the college. The Governing Body, Management, Principal, Deans, HoDs, senior faculty, etc. are always proactive in harnessing the dormant potential in the stakeholders and rejuvenate a culture of excellence in the college. The untiring efforts are reflected in the academic results, research outputs & publications, excellent academic ambience that the institution offers and the culture of dedicated services offered by the faculty and the staff.

#### **Identifying needs and championing organizational development (OD):**

The administrative structure within the institution and guiding the institution involves all the stakeholders in preparing the action



plans and goals for the short term as well as long term development of the institution. The future needs are identified through brainstorming sessions held at various levels.

At department level, the requirement of establishment of new labs and introduction of new programmes are discussed and suggested to the administration.

At college level, priority wise, the new proposals from all the departments are discussed in detail and finalized. These are presented to the Boards of studies and Academic Council and finally to the Governing Body for the final approval and implementation.

The governing body on the advice of the Head of the institution takes care of developments required time to time in the organization.

The HoD at his level, reviews with the faculty on the previous performance of the department and proposes the infrastructural and faculty needs to the principal for the coming academic and financial years.

Thus the decentralized organizational set up has been bestowed with necessary authority along with accountability as a part of leadership training as well as participation in organizational development.

The institution which started basically as an Undergraduate institution with 3 UG programmes to cater to the seekers of quality technical education has gone through several accreditation processes by NBA and NAAC, and presently stands as the most preferred self-financing institution with autonomy in the state as well as in the country.

This has resulted in the demand for admission into both UG and PG programmes which have risen to 9 and 11, respectively.

The institution is now the beneficiary of World Bank funding through TEQIP-II, S.C1.2 for up scaling PG education and research. It is also a recognized institution for research by the affiliating Osmania University. The colleges has been ranked has 71 in All Indian top 100 Engineering colleges (Research and Teaching).

Suggestions and feedback from all the stakeholders, like the students, parents, alumni, employers, etc., for improvement of institution are taken seriously and immediate steps are taken by the management of the College.

#### **6.1.4 Were any of the senior leadership positions of the College vacant for more than a year? If so, indicate the reasons.**

Senior leadership positions of the College are not vacant for more than a year.



**6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of meetings at the stipulated intervals?**

The College ensures that all positions in its various statutory bodies are filled and meetings are conducted at the stipulated intervals.

**6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.**

The college involves faculty, staff and students in developmental activities as well as its day-to-day maintenance. The HoD seeks the information and opinion of laboratory in-charges for maintenance and development of labs. The faculty members participate in the activities related to infrastructural facilities, syllabi, schedules, etc. The students' share of participation is ensured through their presence on various committees and platforms. The Head of the Institution seeks suggestions from HoDs and prepares institutional draft proposals in consultation with Deans and HoDs. Two of the senior faculty members are also members of Governing body (GB), which is the highest policy decision making body of the Institution.

**6.1.7 Give details of the academic and administrative leadership provided by the University to the College?**

University nominates members as well as its representatives on to the different statutory bodies, viz., Governing Body, Academic Council and BoS to support and guide the administrative and academic mechanisms as and when scheduled. It confers permanent affiliation and makes due recommendations to governmental agencies like state council for higher education, AICTE and UGC.

The University also approves and awards degrees for the students of the college.

**6.1.8 How does the College groom the leadership at various levels?**

Administrative and academic responsibility with accountability is distributed at various levels of decentralized organizational set up. Relevant decision making and financial powers are vested with the concerned administrators at different levels to avoid delay and simplify the management of localized issues within their domain.

Leadership training is being imparted to those identified as future leaders for carrying over the vision and mission. There is a system of time bound rotation of administrators at various levels so that there shall be no dearth of administrators/leaders in future. Also, the institute has been deputing its senior faculty members to managerial / leadership training, like Management Capacity Enhancement Programme (MCEP) to reputed management institutions like IIMs with the support of TEQIP-II.



### **6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.**

The College evolved a strategy for knowledge management

- The college has a good number of online journals and made available to the faculty and students
- Quite a few print versions where journals are not published online are made available in the reference section of the library and back volumes are issued to faculty
- A digital library caters to the needs of the students
- The library is also a member of INDEST and is headed by qualified staff in library science
- Faculty is encouraged to participate in workshops/ seminars/ conferences at national and international levels to up-grade their knowledge with current topics of interest to industry and research
- Distinguished senior academicians from within and outside the country and industry experts are invited to associate with or work in the college to provide academic leadership in research

### **6.1.10 How are the following values reflected in various functions of the College?**

- \* Contributing to national development
- \* Fostering global competencies among students
- \* Inculcating a value system among students
- \* Promoting use of technology
- \* Quest for excellence

#### **Contributing to national development**

- By training quality technical graduates and post graduates through its curriculum which is synchronized with industry needs leading to national development the students can take any responsibility and fulfil them with ethical standards
- By encouraging research and innovation leading to practical solutions to societal and strategic needs of the country.

#### **Fostering global competencies among students:**

- By inviting experts from industry and academia with international exposure to deliver technical talks, conduct training programmes, workshops as well as teach for short



periods and also involve in their research.

- By seeking to admit foreign nationals in the programmes offered by the college.

#### **Inculcating a value system among students:**

- By organizing value based motivational talks by leading personalities from different walks of life who contributed significantly to the society in promoting standards of life through their services.
- By encouraging the community service as well as partnering in the activities of prominent NGOs of the region.
- By contributing through NSS activities in brining awareness in matters of societal concern like environment, corruption, voting rights, rural activities, literacy and so on.

#### **Promoting use of technology**

- The management has taken a lead in promoting the use of technology from the campus itself.
- The college has taken its share of social responsibility in reducing carbon emission through renewable energy source like solar energy for computer labs in mechanical engineering department.

#### **Quest for excellence:**

- In pursuit of excellence in quality, the college went for accreditation by NBA and NAAC. The NBA, NAAC have been kind enough to commend the efforts of the college on various aspects with encouraging remarks
- Re-accreditations by NBA for various programmes exposes the quest of the institution for quality sustenance
- The UGC accorded the institute as first autonomous engineering college under Osmania University in 2013-14.
- The college is now having recognized centres for research by Osmania University in departments of Mechanical Engg., ECE and CSE.
- Some of the faculty are supervisors and co-supervisors and produced few PhDs.
- The faculty secured research projects from different



organizations like UGC, AICTE, DRDO, DST, etc.

- A Centre for innovation is functioning in the college to explore the innovative talents of the students.
- Faculty is encouraged for excellence by providing TA, DA, registration fee and paid leave for research publications, paper presentations, participation in seminars, workshops, FDPs, Summer & Winter schools, orientation programmes, etc.
- Students are encouraged to participate in co-curricular and extracurricular competitions as well as service oriented activities where in several prizes obtained keeping the flag of the college high at the University and institutes of higher learning.

#### **6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.**

The UGC autonomous review committee stated in its first report that autonomous status to be conferred. No further review has taken so far.

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.**

- \* Teaching and learning
- \* Research and development
- \* Community engagement
- \* Human resource planning and development
- \* Industry interaction
- \* Internationalization

The institute has a perspective plan for development and the plan is expressed in terms of long term, medium term and short term goals

#### **Long Term Goals**

- Attain Deemed to be University Status
- Centers of Excellence in Engineering, Technology & Science
- Incubation Centers
- International Placements
- Establishing Industry Chair
- Construction of Outdoor Stadium
- Lectures by Nobel Laureates





### **Medium Term Goals**

- Strengthening of Academic and R&D programmes in collaboration with reputed Universities and Industry.
- Departments to be recognized as Research Centers.
- Improving Placements in Core Sector.
- Automation of Administrative and Academic Sections.
- Establishing Consultancy Cell in each Department.
- Construction of Girls Hostel and adequate Staff Quarters.
- Strengthening EDC & IIPC.
- Construction of state-of-the-art Auditorium.
- More collaborative programmes with Foreign Universities.

### **Short Term Goals**

- To fulfill the objectives of TEQIP.
- To improve Industry Institute Interactions.
- To encourage faculty to publish technical papers in reputed journals.
- To depute more faculty for Conferences/Workshops etc.
- To obtain accreditation for all eligible UG & PG programmes.
- To encourage students to take part in National/International conferences and publish their Research work.
- To modernize laboratories.
- To strengthen departmental libraries.
- To depute supporting staff for training.
- Starting new programmes in Emerging areas.

### **Strategies to improve the quality of Teaching & Learning process:**

- Ensures transparency in the admission process by the publication of selected admission merit list on the college website and notice board before the date of admission
- Gives preference to the previous academic records of students in the admission process for getting a large number of good students
- Takes introductory classes to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice.
- Provides remedial coaching classes for academically weak, the socially-backward and economically-weaker students to enable them to cope with the programme of their choice
- Academic calendar is designed with all the planned activities and followed accordingly.
- Provides better teaching-learning facilities like good classrooms



equipped with modern teaching aids like LCD projector, white boards, etc. Labs are well-equipped with skilled supporting staff. Well-stocked Library and Information Centre with reading rooms and internet connection for an effective learning

- Faculty members are deputed to seminars, workshops, conferences, orientation programmes, refresher courses, STTPs, SDPs, FDPs, etc., to enrich their knowledge in tune with emerging technologies

#### **Strategies to improve the quality in Research & Development:**

- An exclusive R&D building is being constructed to provide sufficient space and infrastructural facilities like experimental setup, high end computers, printers, internet, discussion rooms, seminar halls, etc.
- Teachers are motivated to prepare research proposals and submit to various funding agencies
- Teachers are motivated to publish research papers in refereed journals and conferences by providing registration fee and TA/DA for paper presentation along with paid leave
- Encouragement to teachers to organize state/national level seminars/workshops/conferences/symposiums by extending financial support and infrastructure facilities
- Inviting renowned scientists and academicians for delivering talks on emerging cutting edge technologies and latest developments in rapidly changing industry scenario
- Encouraging students to attend the seminars, workshops, invited guest lecturers organized by the departments and other Colleges
- Students are also encouraged to publish papers in the International/national conference journals by paying registration fee for publication and TA/DA for presentation

#### **Strategies to improve the quality in community engagement:**

The college administration has identified the social responsibility as one of the major priorities to act upon, which is being reflected in the vision and Mission statements.

The institute always organizes different extension activities throughout year to engage the students in community oriented activities to develop a sense of social responsibility, service orientation and holistic development of students. The college has active NSS unit under the guidance of a faculty in-charge. NSS organizes/ participates/ observes different activities /programmes as part of regular activities and also special camp activities/programmes. They also take part in Independence day and Republic day celebrations in the institute aiming to develop a sense of national integration among students. Institute also



organizes skill development programme to the surrounding village peoples. Community engagement programmes are also conducted through Street Cause, a student body meant for community related activities.

### **Human resource management**

HoDs submit the faculty requirement every year before commencement of the academic year. Accordingly, the management recruits faculty through proper selection process specified by UGC/AICTE/OU.

### **Industry interaction**

An exclusive Industry and Institute Partnership Cell (IIPC) sponsored by AICTE is functioning to promote industry interaction in academics and research.

The other activities of the Cell Include:

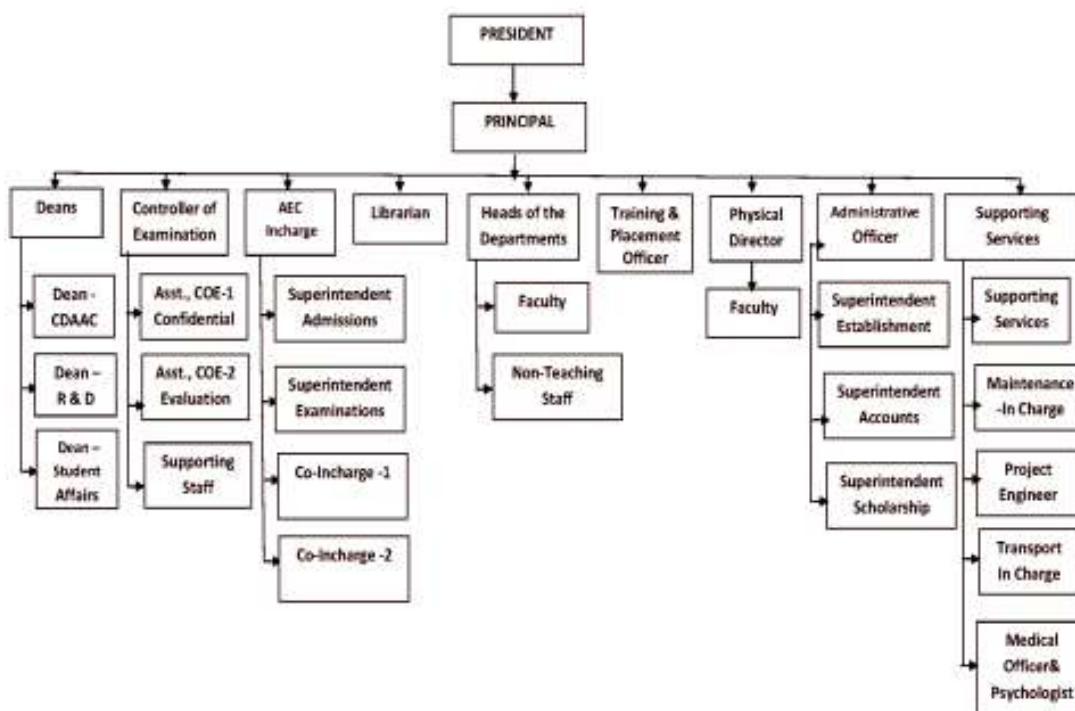
- Visit industries frequently to explore possibilities of students recruitment through campus interviews
- To conduct workshops/ training programmes for students from industry personnel on latest developments in technology.
- To help students to get vocational training in industries during vacation.
- Students are sent for internships as part of MoUs to organizations

### **Internationalization**

- 15% of the total intake is meant for foreign nationals on supernumerary basis.
- Faculty from abroad are invited as adjunct faculty or for conducting short term courses or delivering guest lecturers as well as helping in research.
- Periodical organization of international conferences/workshops with a high degree of participation from outside the country.
- Steps initiated with the support of World Bank funding under TEQIP-II to improve quality towards globalization to meet ABET standards.
- Research support for publications of international standards.
- MoUs with foreign universities are under active consideration.

## **6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.**

Organizational chart showing the hierarchy of academics and administration is shown below:



The President of CBIT is the chief executive of the college. He coordinates between the sponsoring society, college management committee and the governing body.

- The Principal is the chief academic administrator and a bridge between the management, staff and students. He mainly takes care of academic, administrative, infrastructural development activities, etc. He prepares and presents the proposals before the governing body for its approval.
- HoDs, Deans, section in-charges and administrative officer assist the Principal in his administration.
- HoD is responsible for the functioning of the concerned department as per the policies laid down by the college. HoDs will prepare budget estimation for the department.
- HoDs shall report to the Principal on the matters that come within their purview.
- HoDs will constitute various committees in the department to help in various matters.

### 6.2.3 Specify how many planned proposals were initiated/implemented, during the last four years. Give details.

#### I. Additional funds for TEQIP-II Activities :

The Institute was granted Rs.4 crores for TEQIP-II activities in the year 2011 with the participation of Central Government - 60%



share, State Government - 20% and the Institute Share 20%.

The Institute has successfully implemented the activities as provided in the TEQIP-II programme and planned to apply for an additional grant of Rs.2.00 crores. Accordingly the Institute submitted the plan for two crores of additional grant from SPFU. Our Institute having been recognised as one of the well performing Institute of the TEQIP-II activities, approval was granted for an additional fund of Rs.2.00 crores vide e-mail dt.04.09.2015 from NPIU considering Rs.2.00 Crores of additional grant and sanction letter for 50% of additional grant of Rs.2.00 crores from SPFU vide letter No.SPFU.TS/TEQIPII/32/2011-16. dt.12.03.2016.

At present, the Institute is carrying on the activities under the additional grant of Rs.2.00 crores from the Institute's funds. SPFU has already released its 50% (Rs.50 lakhs) share of the first instalment of Rs.1 crore to the State Government with direction to release an amount of Rs.70 lakhs to the Institute including the State Government's share of 20% (Rs.20 lakhs).

## **II. Choice Based Credit System :**

The Institute has become autonomous from the year 2013-14 and has been framing its own syllabus for the courses run by the Institute. As a measure of reforming the course structure, it was planned to introduce Choice Based Credit System for the courses run by the Institute. Accordingly the proposal was put up to the Governing Body of the Institute and was approved at its meeting held on 08.10.2016 after the same was approved at the Academic Council Meeting held on dt.25.06.2016. The Choice Based Credit System is being implemented from the academic year 2016-17.

## **III. To apply for Private University Status in the State of Telangana:**

It is reported in the newspapers that the State Government is contemplating to bring the enactment to facilitate establishment of Private Universities in the State of Telangana. The General Body of the Institute at its meeting held on dt.14.11.2016 discussed this point and resolved to build up the necessary infrastructure to get Private University status as and when the State Government brings out the enactment in this regard.

## **IV. Accreditation of 5 PG programmes :**

The Institute planned to get accreditation from NBA for the 5 PG Engineering programmes run by the Institute which are eligible for accreditation. Accordingly application was submitted and NBA granted accreditation to the 5 PG Programmes as applied for viz., ME - Computer Science & Engineering (CSE), ME - Structural



Engineering (Civil Engg.), ME - Communication Engineering (ECE), ME - Computer Aided Design & Manufacturing (Mech. Engg.) and ME - Power Systems & Power Electronics (EEE) vide letter F.No.11-35/2010/NBA, dt.08.07.2016 for two years.

#### **V. Starting of New PG Programmes in emerging areas :**

The Institute planned to start new PG programmes in the emerging areas of Engineering and accordingly an application was made to AICTE. Approval granted by AICTE for these courses with an annual intake as under.

S. No.	Name of the Course / Department	Sanctioned year	Annual Intake
1.	Embedded Systems & VLSI Design (ECE)	2012	18
2.	Thermal Engineering (Mech. Engg.)	2012	18
3.	Earth Quake Engineering (Civil Engg.)	2013	18
4.	Computer Network & Information Security (IT)	2013	18

#### **6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?**

The Quality Policy of the institute is as follows:

Chaitanya Bharathi Institute of Technology (CBIT) imparts value based Technical Education and Training to meet the requirements of students, Industry, Trade/Profession, Research and Development Organizations for Self-sustained growth of Society.

The quality policy is designed keeping in view the vision and mission statements with the given inputs of student quality, faculty as well as expectations of the stakeholders in order to contribute to the growth of knowledge, national development and answering societal concerns. It is designed to serve the society through technical competence, knowledge transfer in extension activities and research.

It is driven by the proactive support of the management, involvement of administration and faculty, and zeal of the student community as the main stakeholders in taking forward the knowledge base gained behind the portals of learning to help the community around in particular and to the larger interests of the Nation.

The deployment is carried out through a comprehensive curriculum design in consultation with industry experts and experienced & well qualified academicians with contemporary emerging technologies and practical methodologies acceptable to regulating authorities.

The review is made at different levels of organizational structure from time to time and the results are put to discussion in the meetings of the statutory bodies of the college for approval and



guidance in future course of actions.

**6.2.5 How does the College ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?**

The complaints received from students are normally resolved by the Dean-Student Affairs. If any matter required detailed enquiry, a Committee with senior faculty is constituted to resolve the issue.

As regards Grievances / representations of the staff, they are immediately attended to by the Principal and where ever required, orders from President are taken to resolve the concerned issues.

**6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

The faculty in-charges of the student feedback activity collect the feedback once at the end of the first mid exam for all the courses and the other at the end of the semester instruction through online. A consolidated feedback report is generated for all the subjects of a semester.

- Student feedback is obtained with a comprehensive score on a scale of 0-5 for 13 identified parameters for each subject. Average of the score given by the students for each subject is taken as feedback for particular faculty for that subject. If the score is 80% and above the teacher's performance is considered as excellent, between 70% - 79% very good, 60% - 69% good and 50% -59 % average and less than 50% is considered as poor. HoDs track the record of the faculty and recommends necessary action to the Principal
- The percentage for each of the 13 parameters is also considered for performance review of the faculty. All those parameters whose value is 75% and above are considered as grade 'A', whose values are between 65%-74% are considered as grade B and the rest as grade 'C'. The faculty members whose grades are B & C are deputed to relevant quality enhancement programmes.
- Feedback on institution performance, like infrastructure facilities, library, canteen, medical care, AEC, etc., in addition to teaching is also taken from students
- The feedback of the students is being critically analyzed and necessary actions are initiated

**6.2.7 In what way the affiliating University helped the College to identify the developmental needs of the College?**



The University appoints affiliation committee to review the performance of the college and provides suggestions for better functioning while granting permanent affiliation and its renewals time to time.

The University nominates its representatives on various statutory bodies, namely, BoS, Academic Council, Governing Body, Staff Selection Committee to serve as a link between the University and the college in implementing the University policies without affecting the autonomy of the college.

**6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, in what way College is benefitted.**

The affiliating University does not have functional College Development Council (CDC) or Board of College and University Development (BCUD).

**6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?**

- The Heads of the Departments interact with the respective teaching and non-teaching staff in periodically conducted departmental meetings to gather feedback on various academic and administrative issues and the minutes are being documented.
- The minutes thus recorded are communicated to the concerned authorities for necessary action.
- The feedback from the alumni is collected through regular alumni meets held in the departments, on the reunion day (25th December of every year) and also during their visits to the departments.
- One or two selected distinguished alumni are also part of BoS of concerned departments.
- The parents can contact faculty, HoD and Head of the Institution at any time to express their opinion for betterment of the students and college

**6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?**

The college encourages academic autonomy to its departments

**Autonomy:**

- Freedom to design the curriculum to match the contemporary developments in domain knowledge, subject to the approval of BoS
- Freedom to design internal components of course assessment





- Freedom to design and offer new topics beyond curriculum and value added programmes.

#### **Accountability is measured through:**

- Reconciliation with scheme of valuation in the internal evaluation mechanism
- Student feedback, counselling, review on internal evaluation, result analysis, question paper moderation
- Self-appraisals of faculty
- Review on performance in Academic Council

#### **6.2.11 Does the College conduct performance auditing of its various departments?**

The college conducts performance auditing through meetings of Heads of Departments. The college is also ISO certified, under which all the departments (academic and administrative) undergo periodical internal and external audit.

### **6.3 Faculty Empowerment Strategies**

#### **6.3.1 What efforts are made by the College to enhance the professional development of teaching and non teaching staff?**

Professional development of teaching staff is ensured by encouraging them to acquire higher qualifications with administrative and academic flexibilities like

- providing long/short time paid leave for external registration at higher level institutions
- Sponsoring to seminars/conferences/workshops/orientation courses /refresher courses like STTPs, FDPs, SDPs, etc.
- Financial incentives like paying registration fee for publications in journals and conferences and TA/DA for presentation of technical papers in various International/National conferences
- Modernization of laboratories with research facilities
- Exposure to international expertise by organizing invited lectures, workshops, seminars and conferences
- Research Grant of Rs.10,000/- per faculty subjected to a maximum of Rs.2,00,000/-
- To encourage the faculty to pursue PhD, institute provides tuition fee & documentation charges for PhD thesis in addition to infrastructure, computing, library facilities, etc.

The non-teaching staff is also encouraged to upgrade their skills by deputing them to relevant authorized /recognized training centers in their respective trades/fields.



### **6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.**

The college considers performance appraisal reports of faculty and supporting staff and measures are initiated accordingly.

- Performance review is done annually on a properly designed format in an objective way
- The review is done at different levels like, student feedback on performance of the faculty, self appraisal by faculty, HoD's assessment and finally at the institutional level.
- The student feedback helps the teacher in knowing the acceptance of the faculty, on content delivery, approachability for clarifications in the subjects concerned, evaluation and his/her sociability as a fellow human being during the counseling.
- The HoD's assessment gives one's attitude as a teacher, colleague and member of the department in accepting and discharging a given responsibility within and outside the sphere of teaching.
- The institutional level assessment helps in understanding one's passion to play an active and supportive role in administration by accepting responsibilities at the department and institutional levels, with accountability.
- Since the performance review offers scope to understand an individual in wide perspective of multiple role play, it also helps in grading the faculty and rewarding, in that order the achievers and it opens a window into the learning and disseminating abilities of a faculty member in a given subject; the innovative nature and interest in R&D; the leadership qualities for future responsibilities and training needs.

The above analysis resulted in development of the institution and individual faculty in different ways like

- identifying achievers and rewarding
- devising a pro-active mechanism for self-improvement of faculty
- establishing / organizing new laboratory activities
- encouraging innovations
- supporting research, publications and patenting
- interacting and coordinating with outside world in academic activities and consultancy

### **6.3.3 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**



- All regular staff both teaching and non-teaching are covered under Group Medical Insurance. Premium is subsidized to the extent of 80% for Non-teaching staff and up to 50% for teaching staff
- Employee Provident Fund (EPF) and Employee State Insurance (ESI) benefits are extended to all eligible staff
- Exclusive institute transport facility is provided. An amount equal to RTC bus pass from faculty and 1/3<sup>rd</sup> from staff is collected towards transport charges
- Health centre is available on the campus to attend to any emergencies during working hours. A staff nurse attends to duty every day and a Doctor visits every alternate day

#### **6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?**

The Institute is implementing the UGC / AICTE pay scales for the faculty. Dearness and other allowances are given as per the Central and State Government revisions announced from time to time. As such the faculty joining the institute are not inclined to leave the institute and are retained in the institute as can be seen from the experience put in by the faculty in the institute. Further eminent Professors retiring from Universities and other reputed institutes are being invited to join the institute and they are being paid a good salary.

#### **6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.**

Some of the salient findings of the gender audit conducted are:

- Girls are admitted beyond the reserved quota of 33%
- Girls are achieving better campus placements
- In most of the classes girls are the toppers
- Girls are excelling in extra and co-curricular activities
- more than 33% of faculty on rolls are women in the college
- more than 33% of HoDs are women involved in administration.

#### **6.3.6 Does the College conduct any gender sensitization programs for its staff ?**

The college conducted "Safety, Security and Threat Awareness Training Program" on 27th Nov 2014. It's a workshop for girl students and lady faculty, conducted by Vanguardz Pro Skills. The resource person was Lt. Col. Vijay Bhasker Reddy (Retd) and CEO, Vanguardz Pro Skills. The workshop dealt with various safety measures and precautions that women have to be aware of, be it at bus stops, in taxis, at parties and even on social networking sites. Live demonstrations were shown regarding physical safety tips. The



program was extremely useful and enlightening to the girl students and women faculty.

TEDx-CBIT was organised in the college on 7th January 2017. Ms. Soumya Mishra, IPS, IGP spoke on gender equality and importance of gender sensitivity. She emphasized the need of girl students to be bold and pursue male dominated professions. She appreciated the work SHE teams in the state and how women have begun to feel safer in the city since then. Ms. Smitha Sabharwal, IAS and Secretary CM office spoke to the students on women empowerment and gender equality.

Apart from these, the college also organized women oriented programmes as follows:

1. "Work-life Balance: Women in Engineering", on 8<sup>th</sup> March 2014
2. "Women in Science and Technology – Societal Impact", on 8<sup>th</sup> & 9<sup>th</sup> March 2013
3. "Pranic Healing and Stress Management in the Work Place", by Ms. Swarnalatha, A pranic healer, on 8th March 2016

### **6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?**

University's UGC-Academic Staff College Programmes have enhanced the competencies of the college faculty through orientation programmes, refresher courses and summer/winter schools.

## **6.4 Financial Management and Resource Mobilization**

### **6.4.1 What is the institutional mechanism to monitor effective and efficient use of financial resources?**

Annual budgetary reviews and allotment to different departments

- Decentralized financial powers and limits. Development & Purchase committee to approve procurements beyond limits of the principal.
- Resource mobilization through sponsored schemes and projects from MHRD and other similar government agencies, and consultancy apart from tuition fees as approved by the AFRC & G.O.
- PG assistance from AICTE and TEQIP-II
- Scholarships and prizes through donations by alumni, parents and well wishers as well as memorials



**6.4.2 Does the College have a mechanism for internal and external audit? Give details.**

The College has a mechanism for internal and external audit. Qualified Chartered Accountants in practice are appointed as Internal and External Auditors.

**6.4.3 Provide audited income and expenditure statement of academic and administrative activities of the previous four years.**

The last statutory audit was conducted for the year 2014-15 (year ending 31.03.2015) and there were no audit objections in the Audit report.

The audited income and expenditure statement of academic and administrative activities of the previous four years are given below:

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY - HYDERABAD 500 025**  
**BALANCE SHEET AS ON 31.03.2015**

LINENO	DESCRIPTION	Schedule (Page No.)	2014-15 Rs.	2013-14 Rs.
<b>EQUITY AND LIABILITIES</b>				
1	Called-up Capital	1	46,000,000	46,000,000
2	Reserves & Surpluses	2	1,11,404,000	1,11,404,000
3	Secured Loans	3	2,000,000	2,000,000
4	Unsecured Loans	4	1,000,000	1,000,000
5	Other Liabilities	5	2,14,311,770	2,14,311,770
6	<b>TOTAL</b>	6	<b>1,61,404,000</b>	<b>1,61,404,000</b>
<b>ASSETS</b>				
7	Fixed Assets	7	1,12,000,000	1,12,000,000
8	Current Assets	8	49,404,000	49,404,000
9	Other Assets	9	0	0
10	<b>TOTAL</b>	10	<b>1,61,404,000</b>	<b>1,61,404,000</b>

 Auditor  
 PRESIDENT  
 Board of Management (Member)  


Page 1 of 11



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD - 75

INCOME AND EXPENDITURE UP TO 31.03.13

INCOME	Schedule (Page No.)	2012-13 Rs.	2011-12 Rs.
Gross Fees	7 (7)	282,758,912	207,823,461
Interest on F.D.Rs		2,241,429	18,020,096
Other Incomes	8 (7)	11,071,899	7,301,107
Excess of Expenditure over income		10,210,201	19,525,885
<b>TOTAL</b>		<b>306,282,441</b>	<b>252,670,550</b>

EXPENDITURE	Schedule (Page No.)	2012-13 Rs.	2011-12 Rs.
Establishment Charges	9 (8)	248,774,713	205,113,551
Transport Charges	10 (8)	850,019	237,033
Administrative Expenses	11 (9)	21,215,447	20,608,554
Lab Recurring Expenses	12 (10)	6,512,839	3,505,144
Students Activities	13 (10)	1,870,161	1,789,496
Estate Maintenance		1,568,483	2,112,712
Repairs & Renovation		5,079,858	1,433,935
Depreciation	4 (5)	17,083,833	17,780,126
BUILDING MAINTENANCE		2,246,002	
INTEREST ON LOANS		1,081,086	
<b>TOTAL</b>		<b>306,282,441</b>	<b>252,670,550</b>

*[Signature]*  
Admin. Officer

*[Signature]*  
PRINCIPAL

*[Signature]*  
MEMBER  
Board of Management  
(Finance)

*[Signature]*  
PRESIDENT





**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY - HYDERABAD 500 075**

**BALANCE SHEET AS ON 31.03.2014**

LIABILITIES	Schedule (Page No.)	2013-14 Rs.	2012-13 Rs.
<b>Capital Fund</b>			
As per Schedule	1 (3)	56,346,227	38,091,546
<b>Secured Loans &amp; Current Liabilities</b>			
Term Loan from Bank of India		766,693	1,000,495
Loan from Andhra Bank		104,040,000	55,000,000
Term Loan from Andhra Bank(Student Transport)		13,986,973	0
Capital Subsidy	3 1A	757,181	757,181
outstanding Liabilities	2 (3)	26,802,696	21,322,356
Outstanding Liabilities for capital expenditure	3 (4)	254,075	401,466
Other Liabilities	3 (4)	218,294,250	214,911,779
<b>TOTAL</b>		<b>421,248,095</b>	<b>331,484,823</b>

ASSETS	Schedule (Page No.)	2013-14 Rs.	2012-13 Rs.
<b>Fixed Assets</b>			
As per schedule	4 (5)	215,472,879	162,858,437
<b>Current Assets &amp;</b>			
<b>Advances</b>			
a) Cash at Bank	14 (11)	33,493,816	38,485,785
b) Fixed Deposits		10,874,700	9,377,016
c) Interest accrued on above Fixed Deposits		1,000,896	511,987
d) Tuition Fees Receivable		127,833,868	90,980,835
e) Receivable from Others		446,733	0
f) Other Deposits	5 (6)	10,217,635	5,114,135
g) Advances	6 (6)	18,723,276	15,904,308
h) Stock of Cement		587,217	267,783
i) Stock of Steel		2,597,075	8,003,095
<b>TOTAL</b>		<b>421,248,095</b>	<b>331,484,823</b>

*[Signature]*  
ADMN. OFFICER

*[Signature]*  
MEMBER  
Board of Management  
(Finance)

*[Signature]*  
PRINCIPAL

*[Signature]*  
PRESIDENT

For P. Murali & Co.,  
Chartered Accountants  
*[Signature]*  
Partner



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD - 75**

**INCOME AND EXPENDITURE STATEMENT AS ON 31.03.14**

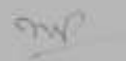
INCOME	Schedule (Page No.)	2013-14 Rs.	2012-13 Rs.
Gross Fees	7 (7)	375,344,218	282,758,912
Interest on F.D.Rs		733,791	2,241,429
Other Income	8 (7)	16,542,889	11,071,899
Excess of Expenditure over Income			10,210,201
<b>TOTAL</b>		<b>392,620,898</b>	<b>306,282,441</b>

EXPENDITURE	Schedule (Page No.)	2013-14 Rs.	2012-13 Rs.
Establishment Charges	9 (8)	301,481,825	248,774,713
Transport Charges	10 (8)	1,300,807	850,019
Administrative Expenses	11 (9)	23,242,016	21,215,447
Lab Recurring Expenses	12 (10)	8,002,005	6,512,839
Students Activities	13 (10)	1,995,926	1,870,161
Estate Maintenance		1,117,090	1,568,281
Repairs & Renovation		3,037,934	5,079,858
Depreciation	4 (5)	24,264,557	17,083,833
<b>BUILDING MAINTENANCE</b>		<b>1,228,942</b>	<b>2,246,002</b>
<b>INTEREST ON LOANS</b>		<b>8,695,115</b>	<b>1,081,086</b>
Excess of Income over Expenditure		18,254,681	
<b>TOTAL</b>		<b>392,620,898</b>	<b>306,282,441</b>

  
ADMN. OFFICER

  
MEMBER  
Board of Management  
(Finance)

  
PRESIDENT

  
PRESIDENT

For P. Murali & Co.,  
Chartered Accountants

  
Partner





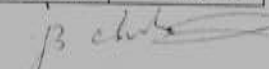
**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY - HYDERABAD 500 075**

**BALANCE SHEET AS ON 31.03.15**

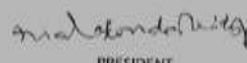
LIABILITIES	Schedule (Page No.)	2014-15 Rs.	2013-14 Rs.
<b>Capital Fund</b>			
As per Schedule	1 (3)	146,159,643	56,346,227
<b>Reserves &amp; Surplus</b>			
<b>Capital Subsidy</b>	IA (3)	757,181	757,181
Term Loan from Bank of India		514,806	766,693
Loan from Andhra Bank		61,500,000	104,040,000
Term Loan from Andhra Bank(Student Transport)		12,185,180	13,986,973
outstanding Liabilities	2 (3)	28,061,380	26,802,696
Outstanding Liabilities for capital expenditure	3 (4)	663,351	254,075
Other Liabilities	3 (4)	241,240,970	218,294,250
<b>TOTAL</b>		<b>491,082,511</b>	<b>421,248,095</b>

ASSETS	Schedule (Page No.)	2014-15 Rs.	2013-14 Rs.
<b>Fixed Assets</b>			
As per schedule	4 (5)	213,567,169	215,472,879
<b>Current Assets &amp;</b>			
<b>Advances</b>			
a) Cash at Bank		34,035,217	42,327,816
b) Fixed Deposits		21,059,890	10,874,700
c) Interest accrued on above Fixed Deposits		312,916	1,000,896
d) Tuition Fees Receivable		187,106,738	127,833,868
e) Receivable from Others		0	446,733
f) Other Deposits	5 (6)	1,383,635	1,383,635
g) Advances	6 (6)	31,649,736	18,723,276
h) Stock of Cement		146,910	587,217
i) Stock of Steel		1,820,300	2,597,075
<b>TOTAL</b>		<b>491,082,511</b>	<b>421,248,095</b>

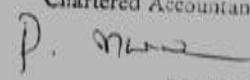
  
ADMN.OFFICER

  
PRINCIPAL

  
MEMBER  
Board of Management

  
PRESIDENT

**For P. Murah & Co.,  
Chartered Accountant**

  
Partner



### CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD - 75

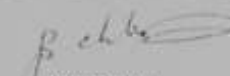
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2015

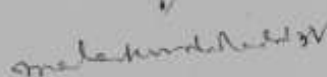
INCOME	Schedule (Page No.)	2014-15 Rs.	2013-14 Rs.
Gross Fees	7 (7)	466,559,252	375,344,218
Interest on F.D.Rs		436,776	733,791
Other Income	8 (7)	19,589,632	16,542,889
Excess of Expenditure over income			
<b>TOTAL</b>		<b>486,585,660</b>	<b>392,620,898</b>

EXPENDITURE	Schedule (Page No.)	2014-15 Rs.	2013-14 Rs.
Establishment Charges	9 (8)	324,412,748	301,481,825
Transport Charges	10 (8)	1,127,522	1,300,807
Administrative Expenses	11 (9)	24,096,263	23,242,016
Lab Recurring Expenses	12 (10)	6,425,505	8,002,005
Students Activities	13 (10)	2,390,314	1,995,926
Estate Maintenance		482,118	1,117,090
Repairs & Renovation		2,127,492	3,037,934
Depreciation	4 (5)	24,137,693	24,264,557
BUILDING MAINTENANCE		874,068	1,228,942
INTEREST ON LOANS	-	10,698,522	8,695,115
Excess of Income over Expenditure		89,813,416	18,254,681
<b>TOTAL</b>		<b>486,585,660</b>	<b>392,620,898</b>

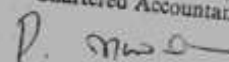
  
ADMN.OFFICER

  
MEMBER  
Board of Management

  
PRINCIPAL

  
PRESIDENT

for P. Murali & Co.,  
Chartered Accountants

  
Partner



**6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?**

The Accounts have been audited regularly. There were no audit objections in the Audit reports.

**6.4.5 Narrate the efforts taken by the College for resource mobilization.**

The major source of income is tuition fee from students. There is no deficit for the years 2013-14 to 2015-16. Even for the year 2012-13 the deficit of Rs.1,02,10,201/- is after charging depreciation of Rs.1,70,83,873/- and as such there is no cash deficit even for this year. However, due to late receipt of Fee Reimbursement related to students' scholarships, temporary cash deficit arises, which is managed by taking loans from the bank. Audited income and expenditure statement of academic and administrative activities of the previous four years are below:

Particulars	2015-16 Audited (Rs.)	2014-15 (Audited) (Rs.)	2013-14 (Audited) (Rs.)	2012-13 (Audited) (Rs.)
Income	61,61,25,477	48,65,85,660	39,26,20,898	29,60,72,240
Expenditure	52,18,41,321	39,67,72,245	37,43,66,217	30,62,82,441
Revenue surplus / (Deficit)	9,42,84,156	8,98,13,415	1,82,54,681	(1,02,10,201)

**6.4.6 Is there any provision for the College to maintain the 'corpus fund'? If yes, give details.**

2% of the recurring expenditure excluding salaries is maintained as corpus fund.

**6.5 Internal Quality Assurance System**

**6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.**

The college conducts academic audit of its departments. Department level audits are taken up regularly. The members of the respective Board of Studies also scrutinize the quality of question papers of the external examinations, and the academic council reviews the academic performance. Apart from these, a team from the University visits the college and conducts fact finding on the academic front every year.



As part of improving academic performance an Academic Audit Cell is proposed to set up with senior faculty as members. The objective is to monitor and review the academic performance periodically through an internal process and also through audit by Academic Audit peer team from outside.

**6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?**

Internal verification system by senior faculty within each department is introduced to further improve question papers for the class tests. Attainment levels of course outcomes are introduced.

**6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

A student feedback form is prepared as per the guidelines given by IQAC of NAAC. Student feedback covers to review the teaching learning process by various questions related to motivation levels of the students towards the subject, clarity of presentation, preparedness, pace of the content coverage, regularity / punctuality, audibility, clearance of doubts, overall opinion, etc

Based on the percentage of opinion expressed by the students the following are inferred

- To what extent the students are motivated to learn the concepts
- Whether the syllabus coverage is evenly paced
- Whether the content is given with clarity
- Whether the classes are taken regularly
- Whether the teacher is supplementing contents beyond the syllabus
- Whether the student is satisfied with his performance

The faculty in-charges of the student feedback activity collects the feedback once at the end of the first mid exam for all the courses and the other at the end of the semester instruction through online. A consolidated feedback report is generated for all the subjects of a semester.

- A comprehensive score on a scale of 0-5 for 13 identified parameters are considered for feedback for each subject. Average of the score given by all the students for each subject is taken as feedback for particular faculty for that subject. If the score is 75% and above then the teacher's performance is considered very good, and if the score is between 65% - 74% then the teacher's performance is considered as average, and the rest are considered



as poor. HoDs track the record of the faculty.

- The Percentage for each of the 13 parameters is also considered for performance review of the faculty with all the factors whose value is above 75% and above are considered under grade 'A', whose values are between 65% -74% are considered under grade B and the rest are considered as under grade 'C'. The faculty members whose scores are under B & C are sent to relevant quality enhancement programmes.

#### **6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

IQAC plays a major role to achieve the quality by regular internal audits

- Benchmarking and internal quality checks through the Academic audit
- Facilitating the creation of a learner-centric environment conducive to quality education to adopt the required knowledge and technology for participatory teaching and learning process by making use of Multimedia lectures, CBT lectures, NPTEL video lectures, MOOCS, IUCEE webinars etc
- Coordinating and guiding organization of workshops, seminars on quality related themes
- Student feedback as per for the format by the NAAC for review and monitor
- Acting as a nodal agency of the institution for coordinating quality-related activities, including adoption and dissemination of best practices
- Development and maintenance of institutional database for the purpose of maintaining /enhancing the institutional quality development of quality culture in the institution
- The committee collects the data from all the departments as per the format by the NAAC for review and monitor
- Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC and are submitted to NAAC

#### **6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.**

Some of the significant contributions made by the external members of IQAC are:



### **1. Attaining UGC Autonomous status for the Institute :**

With an objective of improving the quality of Technical Education and to frame the syllabus on its own, the institute submitted an application to UGC for the grant of autonomous status. Accordingly UGC sanctioned autonomy to the institute with effect from the academic year 2013-14 for a period of six years with permanent affiliation to Osmania University.

After attaining autonomous status, the institute is striving to achieve its objectives by framing its own syllabus keeping in view the requirements of industry and society based on the technological advancements.

An effective frame work and policies for the examination procedures and promotion criteria for the student to reach the higher level are practised leading to better quality among the outgoing students

The examination pattern and promotion criteria to the subsequent level are made more stringent to improve the academic quality of outcome . so that knowledge of the passed out students is better compared to the students coming out from other institutions.

### **2. Academic Audit :**

As part of improving academic performance an Academic and Audit Cell is set up with senior faculty as members. The objective is to monitor and review the academic performance periodically through an internal process and also through audit by Academic Audit peer team from outside.

### **3. Encouragement to the faculty to pursue PhD :**

It is decided by the Management to sanction paid leave for one or two semesters to the faculty who are pursuing PhD through NITs and IITs for completing course work. In addition, financial assistance is given to all the faculty pursuing PhD for preparation of thesis. The main objective is to have more faculty with PhD, so that, their knowledge can be imparted to the students.

### **4. Encouragement for R&D activities :**

The institute is offering financial assistance to the faculty for their research projects in addition to infrastructural facilities. The process has started in the year 2014-15 and projects worth Rs.4.25 lakhs were sanctioned to the faculty. Subsequently, to promote the research activity in a big way, an exclusive R&D building is being constructed which is under final stage of finishing. The building will be provided with, latest technologically advanced facilities with an undisturbed environment to carry out research activity



**6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

IQAC has been conducting study on the incremental academic growth of students from disadvantaged sections of society. It recommended to take measures such as conducting remedial classes, improving communication skills etc.

**6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

- Service Rules & Policies: As published and communicated by CBIT management to all its employees.
- Recruitment & Promotions: As per AICTE norms for faculty and State Government norms for non-teaching staff.
- Academic Regulations: As prescribed by Board of Studies and approved by Academic Council and Governing Body in tune with the affiliating University.



## **CRITERION VII: INNOVATIONS AND BEST PRACTICES**

### **7.1 Environment Consciousness**

#### **7.1.1 Does the college conduct a Green Audit of its campus?**

The institution is very committed to preserve and protect environment in its entirety. A qualified and experienced horticulturist takes care of developing and maintaining greenery. The green cover encompasses 40% of the campus land area with various shady trees like Delonix, Pongamia, Palm and Neem species alongside the lush green lawns endowed with various crotons and supported by hedges, Ashokas. The college has taken its share of social responsibility in reducing carbon emission through renewable energy source like solar energy for computer labs in mechanical engineering department and lamps in the entire CBIT campus. The conventional lighting is steadily being replaced with CFL and LED lamps. There is an adequate mechanism prevailing in the institute for maintaining and protecting the green environment.

#### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

- Energy conservation
- Use of renewable energy
- Water harvesting
- Check dam construction
- Efforts for Carbon neutrality
- Plantation
- Hazardous waste management
- e-waste management
- Any other

#### **Energy conservation**

The college class rooms are well ventilated, that they hardly need any artificial lighting. The conventional lighting is being phased out by being replaced with CFL and LED lamps. Faculty, Staff and Students are well sensitized so that they switch off lights, fans, computers and electrical appliances, etc., when not required. Air-conditioners are used only at essential places.

#### **Use of renewable energy**

Several Green initiatives like 10 KVA Solar Energy with battery backup has been used for CAD/CAM lab in Mechanical Engineering department. In addition to this, the college sensitizes the surrounding community on conservation of energy, water harvesting, plantation, organic and e-waste management through its social service unit. Greenery in the campus is maintained on the advice of an expert





horticulturist. A solar energy system proposed by the EEE department of the Institute for entire campus is under active consideration by the management.

### **Water harvesting**

A scheme is under active consideration for recharging wells from rainwater and also diverting the sullage for garden plantation. A committee is constituted with a senior professor of civil engineering as its head to workout modalities for implementing the action plan.

### **Check dam construction**

Two check dams were constructed in the campus to reduce soil erosion and to improve ground water level.

### **Efforts for Carbon neutrality**

The college has taken up certain preventive measures to check the emission of carbon dioxide. Most of the students, faculty and staff make use of the institute transport facility thereby reducing the carbon emission. Other measures include reducing generator usage, recycling food waste, steam cooking enabling reduction in the usage of conventional fuels, annual mechanical maintenance of all vehicles to upkeep environmental standards and replacing outdated vehicles.

### **Plantation**

The greenery of the campus is taken care of by an expert horticulturist throughout the year. The greenery is regularly and consistently maintained by the maintenance staff of the Institute. Well laid lawns enhance the glow of lush green carpets in various corners of the institution. The trees on either side of the campus roads lend natural beauty to the campus.

### **Hazardous waste management**

Not Applicable

### **e-waste management**

The only e-waste generated is computer peripherals and some obsolete electronic equipment. The working outdated computer peripherals, which are replaced, are given in charity to some needy institutions that can use them. The other condemnations are auctioned or simply evacuated to make room for the new ones.

### **Any other**

Creating awareness in the campus and surrounding community through NSS and other service organizations on the importance of environment, water conservation and public health.



## **7.2 Innovations**

### **7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.**

The institution through its consistent interaction with its stake holders displays sensitivity towards changing educational, social and market demands. Industry representatives, expert academia, alumni working for various organizations across the globe who are a part of the Board of Studies (BoS), and Academic Council have been catalyzing the process of identifying market demands, course content requirements and need for timely updating of the same in tune with global standards annually. The essential suggestions find a place in the curriculum of the institution with the concurrence of the governing body.

The institution through these initiatives promotes an ambience of creativity, innovation in all spheres of academic progression thereby lending quality enhancement.

Further, the institution takes all measures to offer value based technical education by organizing lectures, talks, workshops inviting persons of eminence in selective areas.

The institution also adopts measures to promote inclusive practices for social justice among all sections of society. The State Government's flagship program offering tuition fee reimbursement is executed effectively, enabling steady increase in beneficiary base.

Most of the PG students (except sponsored category) are covered by GATE assistance or tuition fee reimbursement. Few more eligible students are supported with the scholarship under TEQIP-II of SC.1.1, a scheme granted by MHRD-GoI.

The steady growth in the number of beneficiaries from socially and economically weaker sections in UG and PG programs stand in testimony of the addressing issues relating to inclusive growth.

Remedial instruction to the slow learners, repeat instruction sessions to low-attendance learner groups are some other practices in the similar direction.

India declared 2010-2020 as "Decade of Innovation" to instill innovative fervor in the country. Our institution therefore resolved to play a critical role in promoting individual innovation as well as research to build a sustainable world. In tune with this, CBIT established an Innovation Club to promote innovation and creativity among students.



### 7.3 Best Practices

#### 7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the College.

Some of the best practices followed in CBIT are:

- Encouraging the faculty to take up R&D projects by extending financial support
- Encouraging the faculty for publishing research articles in the reputed journals and conferences by extending financial support
- Encouraging the faculty for attending workshops for improving technical expertise
- Encouraging the faculty for registering for Ph.D with financial support
- Conducting workshops and seminars
- Encouraging the students for doing innovative Projects/Hardware projects by extending financial support
- Maintaining centralized students database
- Students' industrial visits
- Encourage students' participation in co-curricular and extracurricular activities
- Arranging guest lectures by industrial experts and eminent academicians and researchers
- Introducing soft skills in the curriculum

Two of the best practices contributed to the achievement of the institutional Objectives and/or contributed to the quality improvement of the core activities of the college are enunciated below.

#### Best Practice -1

##### 1. Title of the Practice:

Inculcating the spirit of research among faculty for a progressive technological growth

##### 2. Objectives of the Practice

- To improve quality in the teaching-learning process
- To enhance quality in UG and PG projects
- To publish papers in refereed International/ National journals and conferences
- To undertake collaborative projects and consultancy for long term interaction with the academia and industry
- To attain IPRs
- To get research projects from several funding agencies



### **3. The Context**

Research is a never ending quest for knowledge, which may be used to promote progress for the society. Today's world is rapidly developing, giving way and scope for new research initiatives to have a better life. To keep up with the growing needs and demands has become most essential parameter. To meet such demands, continuous research and development of new products and projects has become the need of the hour. This motivated the college to strengthen R&D activity that focuses on various independent domains and encourages multi disciplinary research.

### **4. The Practice**

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

- Providing opportunity to work at higher level institutions like IITs/IIMs for about six months
- Sponsoring for seminars/conference/workshops/Orientation courses /refresher courses like STTPs, FDPs, SDPs, etc. by paying registration fee, TA/DA with paid leave
- Financial incentives like paying registration fee for publications in journals and conferences and TA/DA for presentation of technical papers in various International/National conferences
- Modernization of laboratories with research facilities
- Exposure to international expertise by organizing invited lectures, work-shops, seminars and conferences, etc.
- Research Grant – Rs.10,000/- per faculty subject to a maximum of Rs.2,00,000/-
- To encourage to pursue PhD, institute provides tuition fee, documentation charges for PhD thesis in addition to infrastructure, computing, library facilities, etc.
- Providing high end computing facilities, with internet, Wi-Fi, and other facilities.
- The supporting staff is also encouraged to upgrade their skills by being deputed to relevant authorized /recognized training centers in their respective trades/fields.

### **5. Evidence of Success**

Owing to the hard work done by the members of faculty, the following achievements have taken place in the Organization

- No. of teachers availed the facility and obtained their Ph.D.: 40
- No. of teachers availed the facility and pursuing their research: 61 submitted thesis
- No. of international publications by the faculty: More than 40



- No. of national publications by the faculty : More than 25
- No. of funded projects : 08

There is a tremendous improvement in teaching learning process as the faculty is exposed to latest areas of their topic of research. Further they are able to help the faculty who are fresh to initiate research. Good number of teachers got admission into Ph.D. at various universities. Students publications have increased and quality of student projects, both UG and PG, has been enhanced. Dr. P. Ravinder Reddy, Professor of Mechanical Engineering, Dr. N.V.Koteswara Rao, Professor of ECE & Dr. P. Narahari Shastri, Associate Professor of ECE, have filed for patents.

#### **6. Problems Encountered and Resources Required**

- Trying to inculcate the habit of doing research among many faculty which helps them to grow and the growth of college too
- They are given less teaching load and weekly-off if they complete Pre-Ph.D. Recruiting additional teachers to compensate causing financial burden
- More PG courses have been introduced recently so that teachers can teach advanced subjects which helps them in their research. Trying to get qualified and experienced teachers to fill the gap.
- Industry institute interaction should be improved. The college has tied up with some industries to improve quality in research

#### **7. Notes:**

The college Management and Principal have a strong vision and believe that teaching and research must go together. They constantly encourage the teachers of all Departments to register for Ph.D. and to strive hard to publish papers, to do experimental work and submit thesis. In addition, teachers are given incentive for their publications.

### **Best Practice -2**

#### **1. Title of the Practice-**

Holistic approach for overall development of students by emphasizing co-curricular and extra-curricular activities.

#### **2. Objectives of the Practice**

- To improve the overall personality development
- To inculcate leadership and entrepreneurial traits
- To enhance communication and negotiations skills
- To augment social and human relations awareness
- To imbibe human values and professional ethics
- To train with planning and execution skills



- To build and balance physical, mental and emotional dimensions

### 3. The Context

Young minds are influenced significantly due to rapid cultural and social changes in the society. So, there is an urgency to steer, drive and enable them with proper values and ethics backed by mission and vision. In this direction there is ample scope for adapting holistic approach for overall personality development of young minds in an education institution through planning and organizing various co-curricular and extra-curricular activities. Both technology and arts attribute equally for holistic development. CBIT being a technological institution, artistic approaches are being practiced through extra-curricular activities by organizing SHURTHI (An Annual sports and cultural fest), CARPEDIEM (bi-annual cultural fest), etc.

### 4. The Practice

CBIT provides ample scope for co-curricular and extra-curricular activities in addition to curricular activities.

- SHURTHI, An Annual Sports and Cultural fest.
  - SUDHEE, An Annual Student Technical Symposium
  - CARPEDIEM, Bi-annual Cultural fest.
  - T-SUMMIT, A three day student National Technopreneurial Conference
- 
- **ASME CBIT**, a technical club of mechanical engineering department enhances technical, professional and networking skills of students. Since its inception, it has scaled great heights in both national and international competitions.
  - **Chaitanya Bharathi Cultural Club (CBCC)** gives an opportunity to every individual in the fields of Art, Music, Dance and many more. Culture, heritage and Art are the personified signatures of civilization and lifestyle. To become better connoisseurs of art and develop optimism are additional subtle feelings conveyed by this club.
  - **Communicando** It is the literary club of CBIT. The flagship events are 'Literati' and CBIT Model United Nations, Literati is the first exclusive literary festival organized annually. The fifth edition had 1200 participants from various colleges across the country. The CBIT Model United Nations is one of India's largest student-run conferences. The club also runs the exclusive students' newspaper, Transcendent with three editions per semester.



- **Entrepreneurship Development Cell (EDC)** focuses on bringing out the business culture in the campus by conducting awareness drives, seminars by the young entrepreneurs in the city.
- **Google Student Club** is a platform that provides opportunities to students to improve their skills in technical and marketing areas.
- **IEEE chapter** aims at enhancement of the professional development.
- **ISTE chapter**, aims at the development of top quality professional engineers and technicians needed by the organizations.
- **NSS Unit** activities include plantation drives, Blood donation camps, services at orphanages and old age homes, Road safety, Anti ragging squads, Medical camps in villages, etc.
- **Robotics Club** offers indispensable guidance, workshops and tutorials along with tools, equipments, components and workspace.
- **Society of Automotive Engineering (SAE)** promotes careers and excellence in engineering as it encompasses all aspects of the automotive industry including research, design, manufacturing, testing, developing, marketing, management, finances.
- **Street Cause** Student run NGO conducted events in collaboration with corporate industries such as Deloitte, Gold Drop Industries, Indian Red Cross Society and others, etc.
- **Toastmasters Club** Its objective is to cater to the needs of its members on the important elements of communication such as Learning, Speaking, Reading & Writing (LSRW).
- **Parivrita**, creates the environment club awareness about the issues of environment among the students and the need to protect it. Reduce, Reuse and Recycle. Avoid the usage of plastic and other non-recyclable products.

#### **5. Evidence of Success**

The hard work done by faculty and students resulted in the following achievements in the organization

- Many students are able to secure jobs through campus placements
- Some of the students became leaders of Multinational and National corporate companies
- Few of the students became entrepreneurs and turned out to be



job providers which is in line with the motto of the CBIT-Swayam Tejaswin bhava

- Students are able to get admissions for higher studies in top universities in the world
- Some of the students turned out to be political leaders and became MLA, MP, Ministers of State and Central Governments
- Some of the students became administrators in State and Central Government
- Some of the students became movie directors and artists

#### **6. Problems Encountered and Resources Required**

- Lack of full fledged hostels and staff quarters
- Hectic academic schedules

#### **7. Notes:**

The college Management and Principal believe in the students growing an all rounded personality. They constantly encourage the students to become members of various clubs, organize and participate in various programmes without affecting their academic schedules. Many of the students make use of the facilities and programmes to develop their holistic personality by nurturing their skills and their refining behavior and attitude.





## Evaluative Report of the Department

### 1. Name of the department & its year of establishment :

**Civil Engineering Department & 1979**

Level	Program	Start Date
UG	BE(Civil Engg)	1979-80
PG	ME(Structural Engg)	2002-03
PG	ME(Earthquake Engg)	2013-14

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Program
UG	BE(Civil Engg)
PG	ME(Structural Engg)
PG	ME(Earthquake Engg)

### 3. Interdisciplinary courses and the departments involved

S. No	Name of the Interdisciplinary courses	Name of the departments
1	Engineering Mechanics	Mechanical, Production, CSE, IT, EEE, ECE
2	Environmental Studies	Mechanical, Production, CSE, IT, EEE, ECE
3	Engineering Drawing	Chemical
4	Solid Mechanics	EEE
5	Disaster Mitigation & Management	CSE, EEE, ECE
6	Human Values & Professional Ethics	Biotech , Civil, Mechanical, Production, CSE, IT, Chemical, EEE, ECE

### 4. Annual/ semester/choice based credit system (programme wise)

Level	Program	System of Education
UG	BE(Civil Engg)	Semester System. (Choice Based Credit System is introduced from



		2016-17 batch)
PG	ME(Structural Engg)	Semester System
PG	ME(Earthquake Engg)	Semester System

**5. Participation of the department in the courses offered by other departments**

S. No.	Name of the Interdisciplinary courses	Name of the departments
1	Electrical Technology & Mechanical Technology	EEE & Mechanical Engineering
2	Managerial Economics & Accountancy	MBA
3	Entrepreneurship	Mechanical Engineering
3	Intellectual Property Rights	Mechanical Engineering
4	Operations Research	Mechanical Engineering(*)
5	Information Security	Computer Science (*)

Note: (\*) of late, these courses are not opted by the students as elective.

**6. Number of Teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

	Sanctioned	Filled on Regular Basis	Filled on Contract Basis
Professors	04	03 Regular + 03 Adhoc	01
Associate Professors	08	05	01
Asst. Professors	26	08	09

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

Faculty with Ph.D qualification = 10



Faculty with M.Tech qualification = 22

S.No.	Name	Qualification	Designation	Specialization	No. of	No of Ph D
1	Dr K Jagannadha Rao	Ph.D	Professor	Structural Engg	24 years	04 (under progress)
2	Sri P Sreenivas	ME	Professor	Structural Engg	32 years	
3	Dr M Koti Reddy	Ph.D	Professor	Structural Engg	28 years	
4	Dr. P Rama Raju (*)	Ph D	Professor	Water Resources Engg	40 years	
5	Prof M J Hemanth	M.Arch.	Professor	Architecture	34 years	
6	Prof S S V Chalam	ME	Professor	Transportation Engg	30 years	
7	Dr K Tirumala	PhD	Professor	Geology	31 years	
8	Dr M V Rama Raju	PhD	Associate	Structural Engg	31 years	
9	Sri A Balaji Rao	M Tech	Associate	Marine Structures	28 years	
10	Dr M V Krishna Rao	PhD	Associate	Structural Engg	27 years	
11	Sri G Bhaskar Reddy	ME	Associate	Geotechnical Engg	26 years	
12	Dr N R Dakshina Murthy	PhD	Associate Prof	Structural Engg	18 years	02 (one student submitted thesis)
13	Dr A Vimala (*)	PhD	Associate	Earthquake Engg	15 years	
14	Sri T Vasudeva Rao	M Tech	Asst Prof	Structural Engg	19 years	
15	Smt K Manasa	ME	Asst Prof	Water Resources Engg	08 years	
16	Sri P Srinivas Reddy	ME	Asst Prof	Structural Engg	18 years	
17	Ms. T Malleswari	ME	Asst Prof	Structural Engg	08 years	
18	Sri K Koteswara Rao	ME	Asst Prof	Structural Engg	29 years	
19	Sri R Ranga Reddy	ME	Asst Prof	Water Resources Engg	27 years	
20	Sri K V Vivek	ME	Asst Prof	Structural Engg	07.5 years	
21	Sri M V	ME	Asst Prof	Structural Engg	40 years	
22	Sri M Sambasiva	M Tech	Asst Prof	Geotechnical Engg	46 years	
23	Sri Prasad Koorella	MS	Asst Prof	Ocean Engg	28 years	
24	Sri K Nagaraja (*)	M Tech	Asst Prof	Structural Engg	16 years	
25	Sri R Laxmana	MS	Asst Prof	Transportation Engg	12 years	
26	Sri D Sandeep	ME	Asst Prof	Structural Engg	4 years	
27	Dr D NeelaPriya (*)	PhD	Asst Prof	Environmental	12 years	
28	Dr C Aparna (*)	PhD	Asst Prof	Environmental	10 years	
29	Smt K. Karthika	MTech	Asst Prof	Structural Engg	3 years	
30	Sri S.M. Sravan	ME	Asst Prof	Water Resources	3 years	
31	SmtN.	M. Tech	Asst Prof	Structural Engg	1 year	
32	Sri MallaKalyan (*)	M. Tech	Asst Prof	Structural Engg	2 years	

### 8. Percentage of classes taken by temporary faculty – programme-wise information



S. No.	Program	% of lectures delivered	% of practical classes handled
1	BE	45.33%	51.85%
2	ME(Structures)	42.86%	33.33%
3	ME(Eearth quake)	66.67%	0% (##)

(Note: The above data is computed based on the time table of 2014-15 2nd semester, the last semester where ME(EQ) batch was available. ME (EQ) has been cancelled during 2015-16 due to poor admission response).

(##): The experiments are conducted at SERC, Chennai under an MOU.

### 9. Programme-wise Student Teacher Ratio

S. No.	Program	Student-Teacher Ratio*
1	BE	15:1
2	ME(Structures)	8:1
3	ME(Earthquake)	-

\*: includes faculty on contract employment

### 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

	Sanctioned	Filled on Regular	Filled on Contract
<b>(I) Academic Support Staff (Technical)</b>			
(1) Lab Assts	4	4	-
(2) Lab	6	3	1
Total	10	7	1
<b>(II) Administrative Staff</b>			
(1) Operator	1	1 + 1 (**)	-
(2) Record	1	-	-
(3) Attenders	6	4	1 (*)
Total	8	5	1

(\*) on deputation from maintenance department

(\*\*) one operator is attending administrative work and another operator is attending laboratory work

### 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.



S.No.	Name of Faculty	Agency	Amount of Grant
1	Dr K Jagannadha Rao (2015, 2 year duration)	UGC, New Delhi	Rs. 3.55 lakhs
2	Dr M V Krishna Rao (2015, 3 year duration)	AICTE, New Delhi	Rs. 14.12 lakhs

Total Grants Received: Rs.17.67 lakhs

## 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received

S.No.	Name of Faculty	Agency	Amount of Grant
1	Dr K Jagannadha Rao	UGC, New Delhi	Rs. 3.55 lakhs
2	Dr M V Krishna Rao	AICTE, New Delhi	Rs. 14.12 lakhs

## 13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Recognition from Osmania University is awaited. Application is in the pipe line.

## 14. Publications:

- Number of papers published in peer reviewed journals (national /international) **59**
- Monographs **NIL**
- Chapter(s) in Books **NIL**
- Editing Books **NIL**
- Books with ISBN Nnumbers with details of publishers :  
ONE (ISBN: 81-89966-83-9, Publishers: Academic Publishing Company, Hyderabad)
- number listed in International Database (For e.g. Web of Science,



Scopus, Humanities International Complete, Dare Database -  
International Social Sciences Directory, EBSCO host, etc.) : 44

- **Citation Index - range / average** Range: 1 to 85
  
  - **SNIP** Range: 0.171 to 2.2
  - **SJR** Range: 0.143 to 1.995
  - **Impact factor - range / average** Range: 0.1101 to 9.782
  - **h-index** Range: 1 to 9
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52. Pranav C Attavar, Radha Monica Damaraju and R Laxmana Reddy (2013) "Decreasing the Energy Consumption for Converting Biogas to Bio-CNG by Inculcating Membrane Run Ionic-Liquid in the Digester", International Journal of Emerging Technology and Advanced Engineering – ISSN – 2250-2249 – Volume 3, Issue 8, August 2013. (Impact Factor: 2.324, h-index: 1)
53. R Laxmana Reddy, B. Apoorva, S. Snigdha and K. Spandana (2013) "GIS Applications in Land use & Land Development of a City", International Journal of Emerging Technology and Advanced Engineering – ISSN – 2250-2249 – Volume 3, Issue 5, May 2013. (Impact Factor: 2.324, h-index: 1)
54. R Laxmana Reddy, V. Sanjeevani Reddy and G. Anusha Gupta (2013) "Study of Bio-plastics as Green & Sustainable Alternative to Plastic", International Journal of Emerging Technology and Advanced Engineering – ISSN – 2250-2249 – Volume 3, Issue 5, May 2013. (Impact Factor:



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59. D. NeelaPriya, Jayant M. Modak, PoloncaTrebše, Romina Žabar and Ashok M. Raichur, (2011) “Photocatalytic degradation of dimethoate using LbL fabricated TiO<sub>2</sub>/polymer hybrid films”. Journal of Hazardous Materials, 195, 214-222, 2011. (Citation Index: 13, Impact factor: 4.529, h-index: 9)

#### **15. Details of patents and income generated**

NIL

#### **16. Areas of consultancy and income generated**

##### **(a) Areas of Consultancy:**

- Determination of Soil Bearing capacity
- Investigation for ground water locations for bore-well drilling
- Surveying, leveling, contouring and preparation of AUTO CAD Drawings (Expertise in using Total Station and DGPS)
- Designing, execution and proof checking of all types structures
- Third party quality control
- Material testing (laboratory and field tests) - both destructive & non-destructive testing



**(b) Income Generated :**

S.	Academic	Consultancy Income
1	2010-11	17,24,221
2	2011-12	2,49,695
3	2012-13	2,24,240
4	2013-14	2,22,800
5	2014-15	1,66,900
6	2015-16	1,19,500

**17. Faculty recharging strategies**

- Faculty participation in TEQIP/GIAN courses/Summer Schools/ Workshops/ Seminars/ Conferences/ Symposia at IITs, IIITs, NITs and other reputed Institutions.
- Faculty Development Programs offered by In-house Training Centre
- Faculty participation in National and International Conferences/ Seminars/ Workshops/ Symposia at the Institute
- Faculty participation in technical events organized by various professional bodies.

**18. Student projects**

- percentage of students who have done in-house projects including inter-departmental **100%**
- percentage of students doing projects in collaboration with industries / institutes **NIL**

**19. Awards / recognitions received at the national and international level by**

- Faculty
- Doctoral / post doctoral fellows
- Students

**No awards/recognitions have been received by the faculty/doctoral fellows. Awards received by Students:**

S.No	Batch	Name of the Student	Awards	Recognitions
1	2006-10	P Bhargav Venil		1st Rank at Osmania University among 296 students of the University, with 4651 marks out of 5425 marks (85.7%).



2	2006-10	V Nitya		2nd Rank at Osmania University among 296 students of the University, with 4585 marks out of 5425 marks (84.5%).
3	2006-10	A Venkata Siva Prasad		9th Rank at Osmania University among 296 students of the University, with 4381 marks out of 5425 marks (80.8%).
4	2008-12	SurajGoverdhanam	AACE Scholarship award 2013, USA	
5	2008-12	D. Nikhil Kumar	Gold medalist in BE Civil 2012	
6	2009-13	G Harish		6th Rank at Osmania University among 441 students of the University, with 4820 marks out of 5525 marks (87.2%).
7	2010-14	Gadeela Ranadeer	State Scholarship	
8	2010-14	C Karthik	Best Outgoing Student	6th Rank at Osmania University among 494 students of the University, with 4849 marks out of 5575 marks (87.0%).
9	2010-14	C Veda Sri		9th Rank at Osmania University among 494 students of the



				University, with 4800 marks out of 5575 marks (86.1%).
10	2010-14	K Vamshi Krishna		10th Rank at Osmania University among 494 students of the University, with 4797 marks out of 5575 marks (86.0%).
11	2011-15	Thonte Suresh	Dr Prakash Rao memorial award & Best Intern award from NIT-K, Surathkal	
12	2011-15	Vadlamani Bala Sahitya	Best Outgoing Student	
12	2011-15	Vadlamani Bala Sahitya		4th Rank at Osmania University among 606 students of the University, with 4901 marks out of 5575 marks (87.9%).
13	2011-15	Ponnala Ajith		5th Rank at Osmania University among 606 students of the University, with 4878 marks out of 5575 marks (87.5%).
14	2012-16	Shriya	Best	5th Rank at



		Saridana	Outgoing Student	Osmania University among 670 students of the University, with 4817 marks out of 5575 marks (86.4%).
15	2012-16	P. Srananthi Reddy		8th Rank at Osmania University among 670 students of the University, with 4781 marks out of 5575 marks (85.8%).
16	2012-16	Ankita Saxena		9th Rank at Osmania University among 670 students of the University, with 4778 marks out of 5575 marks (85.7%).
17	2013-14	Suresh T	1st Prize in technical paper presentation organized by Parivrita (Environment Club), CBIT.	
18	2013-14	Suresh T	2nd Prize in technical paper presentation during Nirmaan-2013 organized by Osmania	





			University.	
19	2013-14	Suresh T	1st Prize in technical paper presentation during Acumen Civil-2013 organized by Vasavi College of Engineering.	
20	2014-15	Shaik Lowkhman	1st Prize in Carroms during ARENA-2015 organized by <b>BITS-Pilani, Hyderabad</b> campus.	
21	2014-15	Shaik Lowkhman	Runners (2nd Prize) in Carroms (Doubles) during Athlema-2015 organized by Vidyajyoti Engg College, Hyderabad.	
22	2014-15	Shaik Lowkhman	Runners (2nd Prize) in Carroms	



			during Athlema-2015 organized by MVSR Engg College, Hyderabad.	
23	2014-15	Shaik Lowkhman	Runners (2nd Prize) in Carroms (Doubles) during 1st <b>Telangana State Private Engineering Colleges Sports Meet.</b>	
24	2014-15	Md. Zeeshan Akther	Winners (1st Prize) in Table Tennis (Mixed Doubles) during 1st <b>Telangana State Private Engineering Colleges Sports Meet.</b>	
25	2014-15	Md. Zeeshan Akther	1st Prize in Table Tennis (Mixed Doubles) during ARENA-2015 organized by <b>BITS-Pilani,</b>	



			<b>Hyderabad</b> campus.	
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**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

S.No.	Dates	Title	Source of Funds
National			
1	5-6 May, 2016	Seismology & Seismic Resistant Design of Structures	TEQIP-II, Registration fee and Sponsorship
2	23-24 Jan, 2015	Role of Engineers in the Development of New State of Telangana	TEQIP-II, Registration fee, Sponsorship, Souvenir Advertisements
3	25th April, 2014	Developments in Earth Sciences & Earthquake Engg	TEQIP-II, Registration fee, Sponsorship, Souvenir Advertisements
4	27-29 Mar, 2014	Applications of STAAD.Pro & ETABS	TEQIP-II, Registration fee, Sponsorship, Souvenir Advertisements
5	01-02 Aug, 2013	Sustainability, Energy, Environment	TEQIP-II, Registration fee, Sponsorship, Souvenir Advertisements
6	4-5 Oct, 2012	Advances in Earth Sciences, Structural, Geotechnical & Earthquake Engg	TEQIP-II, Registration fee, Sponsorship, Souvenir Advertisements
7	24-26 May, 2010	Modern Trends in Transportation Engg	Institute funds, Registration fee, Sponsorship, Souvenir Advertisements
International			
1	12-14 Dec,	Advances in Fibre	TEQIP-II,



	2014	Reinforced Polymers & Concepts	Registration fee, Sponsorship, Souvenir Advertisements
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### 21. Student profile course-wise:

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
Engineering Mechanics	871	564	307	87.6%	88.6%
Environmental Studies	871	564	307	91.7%	92.5%
Engineering Drawing	53	33	20	100%	100%
Solid Mechanics	132	81	51	79%	82.4%
Disaster Mitigation & Management	357	206	151	99.5	100%
Human Values & Professional Ethics(*)	1073	669	404	99.3%	100%

### 22. Diversity of Students

Name of the Course (refer question no. 2)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
BE	NA	100%	NIL	NIL
ME (Structural Engg)	NIL	100%	NIL	NIL
ME (Earthquake Engg)	NIL	100%	NIL	NIL

### 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

S.No.	Batch	Name of the Student	GATE Score	GRE & other scores	Job Selections
1	2007-	Maghampramodh	GATE-		



	11		11 AIR: 475		
2	2008-12	SurajGoverdhanam		GRE-310, TOEFL-100	
3	2008-12	M R Nanda Kumar	GATE-12: AIR:324 GATE-14: AIR:136		Scientific Officer, BARC, Mumbai
4	2008-12	D. Nikhil Kumar			SrEngr, L&T
5	2008-12	Sai VijayaramChowdaryKaruturi		GRE-305, TOEFL-101	
6	2010-14	Narasimha Rao Cheeti		GRE-292, IELTS-7	
7	2010-14	GadeelaRanadeer		GRE-305, IELTS-7	
8	2010-14	Tiramdas Manisha			TSPSC telangana state AEE/AE
9	2010-14	Vikhyath Kumar Gattu		GRE – 305, TOEFL - 95	
10	2010-14	AbhisarikaGoli			Software Engineer, Infosys Ltd.
11	2010-14	Manisha T			AE
12	2010-14	Chakradhar G			AEE
13	2010-14	MdZakir Hussain			AEE
14	2010-14	Sathish P			AEE
15	2010-14	Shiva Krishna C			AE
16	2010-14	Vamsi Krishna K			IOCL
17	2010-14	Vamsi N			AEE
18	2010-14	Raju B			AEE
19	2011-	Nara Sandeep Kumar	GATE-		



	15		15, SCORE- 815/1000		
20	2011-15	Uday Reddy Malgireddy		GRE-295, TOEFL-89	
21	2011-15	Alekhy P		GRE-308, IELTS-7	
22	2011-15	Chittimalla Nishank			Scientific Asst (Civil), BARC, Mumbai
23	2011-15	Thonte Suresh	GATE- AIR: 12674		
24	2011-15	N. Vivek			Optical business
25	2011-15	B. Sandesh Reddy		GRE-308, TOEFL -92	
26	2011-15	Srinivas Basanthe			AE, TSPSC
27	2011-15	Mohammad Pasha	GATE: 26.92		AEE, TSPSC
28	2011-15	Sabavat Lakshman			TSPSC
29	2011-15	Lakshmi Maanasa Vemuri		GRE-319; TOEFL-106	
30	2011-15	Priyanka Ageer			Project Engineer, Wipro Technologies
31	2011-15	Prasoon Trivedi		GRE:320, TOEFL:107	
32	2011-15	Niharika M			AEE (Panchayat Raj)
33	2011-15	Rekha Padma Priya			AEE (Panchayat Raj)
34	2011-15	Swati Naik M			AEE(RWS)
35	2011-15	Ajith P			AEE(RWS)
36	2011-15	Akash Rao B			Genco
37	2011-	Prashanth N			AEE(GHMC)



	15				
38	2011-15	Shiva Kumar Reddy P			AEE(HMDA)
39	2011-15	Shiva Prasad T			AEE(RWS)
40	2011-15	Srinivas B			Manager (HMWS)
41	2011-15	BalaBhavana V			AEE(RWS)
42	2011-15	Laikya S			Aarvee Consultants
43	2011-15	Suresh T			AE(Irrigation)
44	2011-15	NishankCh			AEE(RWS)
45	2011-15	Md. Pasha			AEE(Panchayat Raj)
46	2011-15	Mahesh M			AEE(Irrigation)
47	2011-15	Satish Reddy Y			AEE
48	2011-15	Venkata Raghunath M			AE(Town Planning)
49	2012-16	ALLANKI ANURADHA			AE(water supply dept), AEE, TSPSC
50	2012-16	Malavika Jayakumar		GRE 310	
51	2012-16	BhavanaThangeda		GRE-307, TOEFL -101	
52	2012-16	P Mounika			AE(NSLB Circle, Irrigation Dept, Khammam),
53	2012-16	Ankita S			Steel Design Company, Lakdikapool, Hyderabad
54	2012-16	Raju P			AEE
55	2012-16	Chandrakala K			AEE(Public health)
56	2012-16	Sahiti J			AEE(Public health)



57	2012-16	Tejaswini M			AE(GWMC, Warangal)
58	2012-16	Raju C			BEL, Pune
59	2012-16	Raju B			AE(Irrigation)
60	2012-16	Md Salman			Akruti Construction, Hyderabad
61	2012-16	Naseeruddin			Mohemmad Group of Constructions, Hyderabad

#### 24. Student progression

Student progression	Against % enrolled
UGtoPG	About 7% of latest batch ie. 2011-15 (available details are given below)
PGtoM.Phil.	Not Applicable
PGtoPh.D.	Nil (As per the BE student responses received)
Ph.D.toPost-Doctoral	Nil (As per the BE student responses received)
Employed	44% in 2009-10
•Campusselection	98% in 2010-11
•Other than campus recruitment	82% in 2011-12
	64% in 2012-13
	53% in 2013-14
	54% in 2014-15
	53% in 2015-16
	41% in 2016-17 (till Dec 2016)
Entrepreneurship/Self-employment	Mr. N. Vivek of 2011-15 batch started Optical business

S.No.	Batch	Name of the Student	Further studies	University
1	2007-11	Maghampramodh	M.Tech (Strs)	IIT, Kharagpur
2	2008-12	SurajGoverdhanam	MS (Construction Manageme	Clemson University, SC, USA





			nt)	
3	2008-12	M R Nanda Kumar	M.Tech (Strs)	CSIR-SERC, Chennai
4	2008-12	D. Nikhil Kumar	M.Tech (CM)	IITM, Chennai
5	2008-12	Sai VijayaramChowdary Karuturi	MS in Engineering Management	St. Cloud State University St cloud Minnesota
6	2010-14	Vikhyath Kumar Gattu	MS (Civil Engg)	University of Houston (Main Campus), Texas, USA.
7	2010-14	DivyatejaSarapu	MS (Structures)	UNIVERSITY OF MISSOURI KANSAS CITY, USA
8	2010-14	Satvik K	MBA	Symbiosis, Pune
9	2010-14	Narasimha Rao Cheeti	MS (Construction Management)	STEVENS INSTITUTE OF TECHNOLOGY, HOBOKEN, NEW JERSEY, U.S.A.
10	2010-14	GadeelaRanadeer	MS (Structures)	UNIVERSITY OF HOUSTON SYSTEM,HOUSTON,TEXAS,US.
11	2011-15	Nara Sandeep Kumar	M.Tech (Strs)	IITM, Chennai
12	2011-15	Alekhya P	MS (Structures)	University of Illinois, Chicago
13	2011-15	Lakshmi MaanasaVemuri	MS (Structures)	Texas A&M University, College, USA
14	2011-15	B.Sandesh Reddy	PG Diploma	NICMAR, Hyderabad
15	2011-	Mohammad Pasha	M.Tech (Strs)	Osmania Univ, Hyderabad



	15			
16	201 1- 15	Prasoon Trivedi	M.S. (Energy- Water- Environme nt Sustainabil ity)	University of Illinois, Urban-Champaign, U.S.A.
17	201 1- 15	SanathAma	MS (Engineeri ng Manageme nt)	Lamar Univ, Texas, USA
18	201 1- 15	BadatalaSowkhya	MTech (Geomatic s)	CEPT UNIVERSITY, Ahmedabad, Gujarat
19	201 5- 16	ShriyaSaridana	MS	University of Illinois
20	201 5- 16	Satya Prakash N	MS	University of Illinois
21	201 5- 16	Bhavana T	MS	MIS University of Texas
22	201 5- 16	Bonthu S S V S Ashish	M. Tech. (Structural Dynamics)	Indian Institute Of Technology, Roorkee
23	201 5- 16	Srikanth Vavilala	M. Tech.	Visvesvaraya National Institute Of Technology, Nagpur
24	201 5- 16	Vijay Kumar Reddy Arram	M.Tech.	National Institute Of Technology, Warangal
25	201 5- 16	Ravichandra K	M.Tech.	National Institute Of Technology, Warangal
26	201 5- 16	Aravind K	M.Tech.	National Institute Of Technology, Warangal
27	201 5- 16	Samanth M	M.Tech.	National Institute Of Technology, Warangal
28	201	Nikhitha A	M.Tech.	National Institute Of



	5-16			Technology, Warangal
29	2015-16	Divya T	M.Tech. (Geotechnical Engg)	Osmania University, Hyderabad
30	2015-16	Revathi K	M.Tech. (Water Resources)	Osmania University, Hyderabad
31	2015-16	Sravanthi N	M.Tech. (Construction Mgt)	Osmania University, Hyderabad
32	2015-16	Vishnu Chaitanya Deepak K	M.Tech.	BITS, Pilani, Hyderabad Campus

### 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	37.5%
from other universities within the State	37.5%
from other universities from other States	25.0%

### 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

1. Dr M V Krishna Rao, 2013
2. Dr M V Rama Raju, 2014
3. Dr A Vimala, 2014

### 27. Present details about infrastructural facilities

- a. Library
- b. Internet facilities for staff and students
- c. Total number of class rooms
- d. Class rooms with ICT facility
- e. Students' laboratories
- f. Research laboratories

a) Library	One department library is available for the use of both faculty and students.
b) Internet facilities for Staff & Students	Internet facility is provided in the cabins of senior faculty (Professors and Associate Professors). For other



	<p>faculty and students, internet facility is provided in the computer lab. Wi-fi facility is available throughout the Institute campus.</p>
c) Total number of class rooms	<p>There are 8 class rooms for BE program (2nd to 4th years) and one each for ME (Structural Engineering) and ME (Earth Quake Engineering) programs.</p>
d) Class rooms with ICT facility	<p>Internet connection and LCD projectors are arranged in all the above 8 class rooms.</p>
e) Students' Laboratories	<p>There are eleven laboratories in the department for UG and PG programmes. They are: (1) UG Computer Lab, (2) Concrete Lab, (3) Surveying Lab, (4) Fluid Mechanics and Hydraulic Machines Lab (5) Strength of Materials Lab (6) Soil Mechanics Lab (7) Environmental Engineering Lab (8) Transportation Engineering Lab (9) Geology Lab (10) PG Computer Centre and (11) Structural Engineering Lab.</p> <p>Structural Dynamics Lab for ME (Earthquake Engineering) is under establishment. Till this lab is established, the students of ME(Earthquake Engg) are taken to the laboratories of other reputed institutes like IIT, Hyderabad, SERC, Chennai, IIT, Roorkee for conducting the required experiments.</p>
f) Research Laboratories	<p>Research activities are carried out in PG Computer Centre, Structural Engineering Lab and Structural Dynamics lab. In addition, an exclusive R&amp;D building is under construction near student bus parking area. It would serve as a central research facility.</p>



**28. Number of students of the department getting financial assistance from College.**

S.No.	Academic year	Name of the Student	Programme	Purpose	Amount (Rs.)
1	2011-12	3/4 students	BE	Industrial Visit (12.9.2012)	6,650
2	2011-12	3/4 students	BE	Industrial Visit (8.3.2012)	9,900
3	2012-13	3/4 students	BE	Industrial Visit (29.1.2013)	7,600
4	2014-15	Avinash S	ME	Paper Presentation	1,500
5	2015-16	Ganesh S.S.Y.	ME	Paper Presentation	3,000
6	2015-16	Mounika M	ME	Paper Presentation	3,000

The college has been providing monthly scholarship under teaching assistantship of TEQIP for ME students as indicated below:

S. No.	Academic years	Name of the Student	Programme	Purpose	<b>Monthly</b> Amount (Rs.)
1	2011-13	Ayed Ather Quadri	ME	scholarship	8,000
2	2012-14	Ch. Sharath Chandra	ME	scholarship	8,000
3	2012-14	S. Avinash	ME	scholarship	8,000
4	2013-15	P Nirisha	ME	scholarship	8,000
5	2013-15	K Deepthi Priyanka	ME	scholarship	8,000
6	2013-15	Lakshmi Thotakura	ME	scholarship	8,000
7	2014-16	M Vikash	ME	scholarship	8,000
8	2014-16	Mounika Malleboina	ME	scholarship	8,000
9	2014-16	Kolukuluri Kirthi	ME	scholarship	8,000



10	2015-17	Pulipaka Pavani	ME	scholarship	8,000
11	2015-17	Vallepu Ravi Kumar	ME	scholarship	8,000
12	2016-18	Sabbani Karthik	ME	scholarship	8,000
13	2016-18	Veerlapati Rani	ME	scholarship	8,000
14	2016-18	Pratapagiri Hartish Kumar	ME	scholarship	8,000

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

The department consulted Industry, alumni and other reputed academic Institutions to know the academic, industry and research needs. Based on the valuable inputs given by them, the new programmes namely ME (Structural Engineering) and ME(Earthquake Engineering) were started by the department.

**30. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

In addition to the department meetings, faculty members of the department are involved in BOS meetings. During these meetings, they brainstorm the curriculum changes. At the time of preparation of curriculum for CBCS (Choice Based Credit System), the suggestions from the faculty have been obtained.

**b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Students provide their online feedback on the faculty at the end of every semester. Teaching-learning-evaluation is covered in this online feedback. Students' suggestions have been obtained at the time of preparation of curriculum for CBCS (Choice Based Credit System).

**c. alumni and employers on the programmes and what is the response of the department to the same?**

Meetings have been conducted to get the feedback from the stake holders (alumni, industries and parents) about the statements of vision and mission, programme objectives and programme outcomes etc.

**31. List the distinguished alumni of the department (maximum 10)**



S. No.	Name of the Alumni	Batch of Study	Distinguished Position
1	Komatireddy Venkata Reddy	1982-86	Former Cabinet Minister, Govt of Andhra Pradesh
2	Anil Kumar		Former MLA
3	Niranjan Reddy	1982-86	Topper In UPSC Engg Services, Worked for Indian Railways
4	C. Sekhar Reddy	1979-83	Vice-President, CREDAI and Green Building Council
5	Dr. R. Karthik Narayan	2002-06	Top Executive, Insurance Company, Boston.
6	Dr. R. Sriram	1989-93	Professor, University, Canada.
7	S. Bhavani	1988-92	Department of Environment, San Jose, Govt of California, USA.
8	Kranthi Kiran Reddy	1999-2003	Executive Director, Janapriya Engineers Syndicate
9	Dr. V. Bhikshma	1989-92	Professor, Osmania University College of Engineering
10	Lingam Naikwadi	1989-92	CEO, Sigma Consultants
11	Nagaraju	1988-91	CEO, International Construction Company
12	Ravi Gupta	1989-92	CEO, Das Engg Associates

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

S. No	Date	Name of the Expert	Organization	Topic
1	1.4.2016	Md. Abdulla	Director, Condura	Personality Development & Verbal Ability
2	29.3.2016	1. Sri MVSD Prasada Rao, Scientist-F and Head-BIS , 2. Sri Ved Prakash, Scientist-	BIS (Bureau of Indian Standards)	National Level Seminar on Educational Utilization Program



		C 3. Smt T. Sujatha, Scientist-C 4. Sri Shanmukha Shiva Palli, Scientist-B 5. SmtPremSajani, Scientist-C		(VIDYOG). It covered most important Indian Standards of various branches of Engineering for the benefit of students in their future job in respective industries.
3	12.2.2016	Sri D Srikanth	Senior Engineer, BSCPL Infrastructure Ltd, Hyderabad	Constructio n of Highways and Bridges – general practices
4	17.10.2015	Sri Dinesh Adepu	Offshore Structural Engineer, Technip, [www.technip.co m] Abudhabi, U.A.E	Offshore - Structural Engg perspective
5	9.4.2015	Sri Ankala Sai Baba	Hyderabad Metro Rail Project	Metro Rail System for the twin cities of Hyderabad and Secunderaba d
6	27.2.2015	Prof Prasad Patnaik	IITM, Chennai	Cricket Ball Aerodynami cs
7	30.1.2015	Sri D. Sridhar	Nuclear Fuel Complex(NFC), Hyderabad	Out reach of Dept of Atomic Energy, its





				programs and career prospects
8	7.1.2015	DrRaji Reddy	USA	Planning for Research and Education in USA
9	4.12.2014	DrSudhakar	Harita Ecosystems	Applications of Bamboo in Building Construction
10	18.3.2013	Sri K V Jagan Mohan Rao	Nagarjuna Aster Park, Bangalore	
11	6.11.2012	DrRadheShyam Sharma	West Virginia Univ, USA	Academic & Research Opportunities in USA
12	7.2.2012	Mr Walter Williams & Mr P. Atchyuta Reddy	Parex, USA & J.R. Building Blocks	External Insulation & Finished system(EIFS) for buildings
13	29.11.2011	Dr V. Malakonda Reddy	CBES	Sparks of Wisdom that shaped the man from Hunter to Astronaut
14	22.4.2011	Sri N. Jaya Prakash	Green Planet Vision, Hyderabad	Green Environment Concept
15	24.3.2011	Dr K V L Subramaniam	IIT, Hyderabad	Non-destructive testing & Evaluation for condition assessment and Retrofitting of Concrete



				Structures
16	7.12.2010	DrSriramNarasimhan	University of Waterloo, Canada	Research Possibilities in Structural Engg
17	19.8.2010	Sri Prasad Illapani	New Solution Adoption, SAP labs, USA	Business Software for Construction Industry

**33. List the teaching methods adopted by the faculty for different programmes.**

Set teaching method: A well-planned teaching schedule is prepared before the commencement of the class work. Class number, Dates, topics to be taught, content taught beyond syllabus, best reference books for the topics are included in this lecture schedule. This acts as the foundation for the further teaching process. Lecture schedules of all the courses are made available to the students and the other faculty through the college website. In general 3 classes, 1 tutorial for theory courses and 3 hours per a laboratory course are conducted in a week. A total of 24 classes/9 laboratory sessions are conducted for each course. The teaching process also includes explanation through black board, projectors, video lectures, assignments for each course, giving handouts to students etc.

Student assessment tasks: Students are assessed using assignments, interactive sessions and mid semester examinations. The questions in the mid examinations/ assignments are given in such a way that they address/reflect the program outcomes of the department.

Planned laboratory work: A detailed laboratory schedule is prepared prior to the commencement of class work, with the planning of experiments/programs to be performed in each session. The experiments/programs are designed in such a way that a student gets expertise in that particular laboratory course. In each session students are evaluated for 25 marks, where 5 marks are allotted for their laboratory record and the rest for viva and performance in the laboratory. This is a continuous process for all the lab sessions.

The laboratory at the end of the semester will be evaluated for an internal marks of 25 and external evaluation is for 50 marks.



System for course administration: Syllabus, Lecture Schedule, Lab schedule, Attendance sheets etc. can be monitored periodically by the HOD, prepared by individual faculty manually. Each course has a well set syllabus which is reviewed by the Board of Studies, members of reputed institutes and industry. Pre-planned schedules for laboratories and all courses are made and is treated as primary requirement and foundation for the teaching process. Attainment of these schedules will be generally verified by the HOD and the administrators from the data available with individual faculty. Information related to the topics covered, time, duration, absentees etc. will be present in it.

Daily attendance is noted manually in attendance registers. They are also posted in college management software. Attendance reports are generated from the details entered. Faculty also monitors the students with less attendance.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Program Assessment Committee of the Department has been handling these tasks.

**35. Highlight the participation of students and faculty in extension activities.**

- (1) NSS activities
- (2) Street Cause
- (3) Parivrutha (Environment Club) -
- (4) Haritha haram (plantation drive)
- (5) "Save Water" campaign to create awareness
- (6) Road Survey to assess the condition of the Roads in the twin cities of Hyderabad and Secunderabad in association with the NGO "Smart Infrest", Khairatabad, Hyderabad.
- (7) TEACHER, an NGO of Professor Srinivasa Sarma of the Dept

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- (1) Guest Lectures from eminent personalities in the field
- (2) site visits
- (3) Seminars/Workshops/Conferences etc.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**



(1) BE (Civil Engineering) program has been accredited by NBA for 4 times and the work for assessment for 5th time is underway.

(2) ME(structural Engineering) program is accredited by NBA for two years.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

Strengths	<ul style="list-style-type: none"> <li>• Experienced faculty (both academic and industry) in well graded age groups</li> <li>• Good number of doctorates in the department</li> <li>• Experienced in conducting National and International Seminars/Workshops etc</li> <li>• Well-equipped laboratories</li> </ul>
Weaknesses	<ul style="list-style-type: none"> <li>• Generally, students with lower EAMCET ranks join Civil Engg Dept after exhausting their chances of getting seats in Circuit branches etc. Thus the caliber and learning interest of students is generally low.</li> <li>• High percentage of contract employees in the department</li> </ul>
Opportunities	<ul style="list-style-type: none"> <li>• With the availability of the experienced faculty and well equipped laboratories, more R&amp;D and Consultancy projects could be taken up.</li> </ul>
Challenges	<ul style="list-style-type: none"> <li>• To obtain more R&amp;D projects</li> <li>• To obtain more Consultancy works</li> </ul>

**39. Future plans of the department.**

Short Term Plans:

- To develop the department as a research
- To enhance the quality of consultancy to International Standards.
- To improve community development activities

Long Term Plans:

- To start third ME program
- To make the department as the Civil Engineering centre of excellence in the surrounding locality.



## Evaluative Report of the Department

- 1. Name of the department & its year of establishment :**  
Computer Science and Engineering & 1985
- 2. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

S.No.	Course	Name of the Programme	Specialization	Total Intake	Duration
1	UG	B.E	Computer Science and Engineering	180	4 Years
2	PG	M.Tech	Computer Science and Engineering	36	2 Years

### 3. Interdisciplinary courses and the departments involved

S.No.	Subject Code	Subject Name	Department / Unit
1.	EG 111	English – I	Mathematics and Humanities
2.	MT 111	Mathematics – I	Mathematics and Humanities
3.	PY 111	Engineering Physics – I	Physics
4.	CY 111	Engineering Chemistry – I	Chemistry
5.	ME 112	Engineering Graphics	Mechanical Engineering
6.	CE 112	Environmental Studies	Civil Engineering
7.	EG112	English Language Laboratory – I	Mathematics and Humanities
8.	PY 114/ CY 114	Engineering Physics Lab – I / Engineering Chemistry Lab–I	Physics
9.	IT 111	IT Workshop	Information Technology
10.	EG 121	English - II	Mathematics and Humanities
11.	MT 121	Mathematics - II	Mathematics and Humanities
12.	PY 122	Applied Physics	Physics
13.	CY 121	Engineering Chemistry - II	Chemistry
14.	EE 111	Principles of Electrical Engineering	Electrical Engineering



S.No.	Subject Code	Subject Name	Department / Unit
15.	CE 111	Engineering Mechanics – I	Civil Engineering
16.	EG 122	English Language Laboratory – II	Mathematics and Humanities
17.	PY 125 / CY 123	Engineering Physics Lab–II /Engineering Chemistry Lab–II	Physics / Chemistry
18.	ME 114	Workshop	Mechanical Engineering
19.	MT 211	Fourier Analysis and Partial Differential Equations	Mathematics and Humanities
20.	MB214	Managerial Economics and Accountancy	Management Studies
21.	EC 215	Basic Electronics	Electronics and Communication Engg.
22.	EC 218	Basic Electronics Lab	Electronics and Communication Engg.
23.	MT 221	Complex Variables and Probability Statistics	Mathematics and Humanities
24.	CE444	Human Values and Professional Ethics	Civil Engineering
25.	EG221	Soft Skills and Employability Enhancement	Mathematics and Humanities
26.	ME411	Entrepreneurship	Mechanical Engineering
27.	CE452	Disaster Mitigation And Management	Civil Engineering

#### **4. Annual/ semester/choice based credit system (programme wise)**

Semester / Choice Based Credit System



**5. Participation of the department in the courses offered by other departments**

S.No.	Subject Code	Subject Name	Department
1.	CS 111	Programming and Problem Solving	Bio-Tech, ECE, EEE
2.	CS 112	Structured Programming	CED, MED, IPE
3.	CS 113	Programming and MATLAB Computing	Chemical
4.	CS 114	Programming Lab – I	Bio-Tech, ECE, EEE, CED, MED, IPE,
5.	CS 115	Programming & MATLAB Computing Lab	Chemical
6.	CS 121	Object Oriented Programming through C++	BioTech, CED, MED, IPE, Chemical, ECE, EEE
7.	CS 122	Programming Lab- II	BioTech, CED, MED, IPE, Chemical, ECE, EEE

**6. Number of Teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

	Sanctioned	Filled
Professors	5	3
AssociateProfessors	8	5
Asst.Professors	35	32

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.C.R.K.Reddy	Ph.D	Professor	Software Testing	26	4
Dr.Y.Rama Devi	Ph.D	Professor	Data Mining / Bio-Informatics	25	--
N.Rama Devi	M.Tech	Professor	Parallel & Distributed	26	--



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
			Computing		
Dr. M.Swamy Das	Ph.D	Associate Professor	Image Processing/Soft Computing	20	--
V.Madhusudhan Rao	M.Tech	Associate Professor	Machine Learning & Data Mining	26	--
Dr. K.Sagar	Ph.D	Associate Professor	Soft Computing	20	--
Dr. S.China Ramu	Ph.D	Associate Professor	Mobile Computing	19	--
T.Sridevi	* Ph.D	Associate Professor	Image Processing	16	--
R.Ravinder Reddy	* Ph.D	Assistant Professor	Data Mining, Network Security	11	--
E.Padmalatha	M.Tech (Ph.D)	Assistant Professor	Data Mining	13	--
I.Srujana	M.Tech	Assistant Professor	Artificial Intelligence	11	--
G.Vivek	M.Tech (Ph.D)	Assistant Professor	Web Programming / Mobile Computing	16	--
A.Sangeetha	M.Tech	Assistant Professor	Data Mining	10	--
Ch.Vijaya Lakshmi	M.Tech	Assistant Professor	Cloud computing	9	--
B.Ramadasu	M.Tech	Assistant Professor	Information Retrieval and Computer Networks	15	--
K.Mary Sudha Rani	M.Tech (Ph.D)	Assistant Professor	Soft Computing	11	--
G.Vanitha	M.Tech (Ph.D)	Assistant Professor	Data Mining	11	--
E.Kalpana	M.Tech (Ph.D)	Assistant Professor	Cloud Computing &	9	--





Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
			Virtualization		
G.Sandhya Rani	M.Tech	Assistant Professor	Data Bases	7	--
B.Sateesh	M.Tech	Assistant Professor	Data Mining	7	--
T.Suvarnakumari	M.Tech	Assistant Professor	OOSD, Data Mining	9	--
P.Vimalamanohar Ruth	M.Tech	Assistant Professor	Algorithms, Computer Networks	6	--
G.Kavitha	M.Tech	Assistant Professor	Data Mining	7.5	--
K.Spandana	M.Tech	Assistant Professor	Distributed Computing	7	--
M.Venugopalachary	M.Tech *(Ph.D)	Assistant Professor	Web Mining	9	--
Ch.Madhavi Sudha	M.Tech	Assistant Professor	Cloud Computing, Theory of Automata	10	--
Kavita Agarwal	M.Tech	Assistant Professor	Mobile Computing	6	--
A.Mohan	M.Tech	Assistant Professor	Network Security	4	--
B.Ramana Reddy	M.Tech	Assistant Professor	Microprocessor, Embedded Systems	9	--
G.Mamatha	M.Tech	Assistant Professor	Software Engineering	7.5	--
D.Naga Jyothi	M.Tech	Assistant Professor	Databases	7	--
K. Ravi Kiran	M.Tech (Ph.D)	Assistant Professor	Computer Networks	4	--
B Sinduja	M.Tech	Assistant Professor	Software Engineering	1	--
E.Swathi	M.Tech	Assistant Professor	Object Oriented Programming	1	--
D.Sai Kumar	M.Tech	Assistant	Data Mining	1	--



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
	(Ph.D)	Professor			
B.Lokesh	M.Tech (Ph.D)	Assistant Professor	Software Testing, Network Security	9	--
B.Himabindu	M.Tech	Assistant Professor	Data Mining	1	--
Shivani Jindal	M.Tech	Assistant Professor	Databases	1	--
Y.Sravani Devi	M.Tech	Assistant Professor	Data Mining	4	--
Isha Padhy	M.Tech	Assistant Professor	Databases	6	--

\* Ph.D Thesis submitted

**8. Percentage of classes taken by temporary faculty – programme-wise information**

Nil

**9. Programme-wise Student Teacher Ratio**

Course	Ratio
B.E	15:1
M.Tech	12:1

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

	Sanctioned	Filled
Academic Support Staff (Technical )	14	13
Administrative staff	02	02



**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

a) National	:	01
Funding agencies	:	University Grants Commission
Grants received	:	Rs. 2.6 lakhs
File no	:	No. F MRP – 6260 / 15 ( SERO / UGC )
b) International	:	Nil
c) Total grants received	:	Rs. 2,60,000

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

S.No.	Project Name	Funded by	Total Grants Received
1.	Information/Cyber Security Education – A Cloud Based Approach	University Grants Commission	Rs. 2,60,000

**13. Research facility / centre with**

- state recognition
- national recognition
- international recognition

- state recognition  
Research Centre recognized by Osmania University Letter No : R&D No : 733F/1006/Acad.III /2012/F.NO.CBIT/237/ADMN/CSE/2011 dt : 20.10.2011
- national recognition : Nil
- international recognition : Nil

**14. Publications:**

- Number of papers published in peer reviewed journals (national/international)

Publications/depart ment	201 1-12	2012 -13	201 3-14	201 4-15	201 5-16	201 0-16
Total Publications in the Year	10	24	30	27	35	126
Publications per Faculty	0.37	0.80	0.93	0.81	1.02	3.93



Publications in peer reviewed journals	10	24	30	27	35	126
Number of publications listed in International Database						
Monographs	--	--	--	--	--	--
Chapter in Books	1	--	--	1	--	2
Books edited	--	--	--	--	--	Nil
Books with ISBN/ISSN number with details of publishers	--	--	--	--	--	Nil
Citation Index	1 to 10	1 to 3	2 to 9	1 to 3	0.36 1 to 5	0.36 1 to 10
SNIP	--	--	--	--	1.16 4	1.16 4
SJR	--	--	--	--	0.56 5	0.56 5
Impact factor	0.05 to 3.84	0.110 1 to 9.782	0.66 7 to 6.22 6	0.05 to 0.75 2	0.75 2 to 4.01 2	0.05 to 9.78 2
h-index	0.18 3	--	--	--	--	0.18 3

S.No	Name	Inter. Journal	Inter.	
			Nat. Conference	
1.	Dr.C.R.K.Reddy	16	-	3
2.	Dr. Y.Rama Devi	10	5	8
3.	N.Rama Devi	1	-	-
4.	Dr. M.Swamy Das	4	1	4
5.	V.Madhusudhan Rao	-	1	-
6.	Dr. K.Sagar	5	2	3
7.	Dr. S.China Ramu	2	1	-
8.	T.Sridevi	3	1	4
9.	R.Ravinder Reddy	3	1	4
10.	E.Padmalaatha	5	-	3
11.	I.Srujana	1	-	1
12.	G.Vivek	-	-	4



S.No	Name	Inter. Journal	Nat.	Inter.
			Conference	
13.	A.Sangeetha	1	2	1
14.	B.Ramadasu	5	-	-
15.	K.Mary Sudha Rani	-	-	1
16.	G.Vanitha	2	3	1
17.	E.Kalpana	2	-	2
18.	B.Sateesh	2	2	1
19.	T.Suvarnakumari	-	1	1
20.	K.Spandana	-	1	-
21.	M.Venugopalachary	2	-	2
22.	Ch.Madhavi Sudha	-	2	-
23.	Kavitha Agarwal	1	-	-
24.	A.Mohan	2	2	1
25.	B.Ramana Reddy	1	-	-
26.	Shivani Jindal	-	1	-

- Monographs
- Chapter(s) in Books
- Editing Books
- Books with ISBN Numbers with details of publishers

S.No.	Name of the Book	Authors	Publisher	Year
1	Data Driven Methods For Adaptation of ASR Systems ISBN : 978-981-4667- 35-7	Dr. Y.Ramadevi	IAENG Transactions On Engineering Sciences,	2015
2	NEW Performance Analysis of Synchronous Cyphers ISBN:9783659139840	E.Padmalatha	Lambert Academic Publishing	2012

- number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average
- SNIP
- SJR
- Impact factor - range / average



- h-index

#### 15. Details of patents and income generated

NIL

#### 16. Areas of consultancy and income generated

Academic year	Amount
2015-16	4,01,200
2014-15	2,74,889
2013-14	4,68,821
2012-13	35,184

#### 17. Faculty recharging strategies

- Training Needs of the faculty are analyzed and faculty is encouraged to undergo training.
- Faculty are deputed as resource persons in Local/ State/ National Seminars/ Workshops/ and programmes.
- Encouraging faculty to publish technical papers in Journals and registration fee paid by the college.
- Sponsoring faculty to present technical papers in conferences with financial support for registration and travel.
- Partial financial support for completing Ph.D. in part time programme.

#### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental : 90%
- percentage of students doing projects in collaboration with industries / institutes : 10%

#### 19. Awards / recognitions received at the national and international level by

- Faculty

S.No.	Name	Details of Awards / Certificate Received	Awarding Authority
1.	Dr.Y.Rama Devi	MTA	Microsoft



S.No.	Name	Details of Awards / Certificate Received	Awarding Authority
		Certification	
2.	Dr. M.Swamy Das	Ph.D	JNTU, Oracle Java Certified Programmer,(OJCP)
3.	Dr. K.Sagar	Ph.D	OU
4.	Dr. S.China Ramu	Ph.D	OU
5.	R.Ravinder Reddy	MTA Certification	Microsoft
6.	E.Padmalatha	MTA Certification	Microsoft
7.	I.Srujana	Certified System Architect	Pega University Academic Programme (PUAP) ,OJCP
8.	G.Vivek	Certified System Architect	PUAP
9.	A.Sangeetha	Certified System Architect	PUAP, OJCP
10.	B. Ramadasu	Award for Research Excellence	OMICS(International) Indus Foundation Indo-Global Education Summit- 2015
11.	K.Mary Sudha Rani	MTA Certification	Microsoft
12.	G.Vanitha	MTA Certification	Microsoft
13.	G.Sandhya Rani	Certified System Architect	PUAP
14.	B.Sateesh	MTA Certification	Microsoft
15.	T.Suvarnakumari	MTA Certification	Microsoft
16.	P.Vimala Manohara Ruth	Certified System Architect	PUAP
		MTA	Microsoft



S.No.	Name	Details of Awards / Certificate Received	Awarding Authority
		Certification	
17.	G.Kavitha	Certified System Architect	PUAP
		MTA Certification	Microsoft
		OJCP	Oracle
18.	K.Spandana	MTA Certification	Microsoft
19.	M.Venugopalachary	MTA Certification	Microsoft
20.	Kavitha Agarwal	Certified System Architect	PUAP
		MTA Certification	Microsoft
21.	A.Mohan	MTA Certification	Microsoft
22.	B.Ramana Reddy	MTA Certification	Microsoft
23.	G.Mamatha	MTA Certification	Microsoft
24.	E. Swathi	OJCP	Oracle

- Doctoral / post doctoral fellows : NIL
- Students

#### University Ranks

S.No.	Roll No	Student Name	Awards / Recognition
<b>2014-15</b>			
1.	160111733049	D Sai krishna	Secured University I Rank
2.	160111733015	Sheetal Agarwal	Secured University V Rank
3.	160111733008	P Prathyusha	Secured University VII Rank
4.	160114733001	Akhila Thallapaly	Secured I Rank in CSE-1(1 <sup>st</sup> Year)
5.	160114733091	K Anantha Sashi Sekhar	Secured I Rank in CSE-2(1 <sup>st</sup> Year)
6.	160114733159	Mohammed	Secured I Rank in CSE-3(1 <sup>st</sup> Year)





		Aijaaz	Year)
7.	160113733040	C Prateeth Reddy	Secured I Rank in CSE-1(2 <sup>nd</sup> year)
8.	160113733069	M Jyotsna Madhavi	Secured I Rank in CSE-2(2 <sup>nd</sup> year)
9.	160113733128	K Himasravya	Secured I Rank in CSE-3(2 <sup>nd</sup> year)
<b>2013-14</b>			
10.	160110733010	K Kanganpreet Kaur	Secured University I Rank
11.	160110733025	B Sai Sudha	Secured University IV Rank
<b>2012-13</b>			
12.	160109733016	R Sai Laitha	Secured University VI Rank
<b>2011-12</b>			
13.	0209-8065	Muthyampeta Anusha	Secured University I Rank
14.	0209-8086	Loka Sushma	Secured University II Rank
15.	0209-8085	K Sruthi	Secured University III Rank
16.	0209-8002	Racha Alekhya	Secured University V Rank
17.	0209-8100	Nuthalapati Naveen Kumar	Secured University IV Rank
18.	0209-8012	Erraguntala Kruti Rao	Secured University VIII Rank
19.	0209-8053	Bharadwaj Rohan	Secured University IX Rank
20.	0209-8069	Busireddy Hima Bindu	Secured University X Rank
21.	160111733008	P Prathyusha	Secured I Rank in CSE-1(1 <sup>st</sup> Year)
22.	160111733126	A Ujjval	Secured I Rank in CSE-2(1 <sup>st</sup> Year)
23.	160110733010	K Kanganpreet Kaur	Secured I Rank in CSE-1(2 <sup>nd</sup> Year)
24.	160110733113	B Shiv Shankar	Secured I Rank in CSE-1(2 <sup>nd</sup> Year)
25.	160109733016	R Sai Lalitha	Secured I Rank in CSE-1(3 <sup>rd</sup> Year)
26.	160109733107	N Divya Reddy	Secured I Rank in CSE-1(3 <sup>rd</sup> Year)



### Co-Curricular Achievements

S.No	Roll No	Student Name	Awards / Recognition
<b>2010-2011</b>			
1.	0208-8006	Kavya V	Secured University X Rank
2.	0209-8086	L.Sushma	Was awarded silver medal in 2/4
3.	0209-8085	K.Sruthi	Was awarded silver medal in 3/4
4.	0209-8068	Ch.Haritha	<ul style="list-style-type: none"> <li>• Won II prize in coding &amp; debugging event in Vasavi College</li> <li>• Won Merit prize for mini project at Vasavi College</li> </ul>
5.	0209-8065	M.Anusha	Won I prize in Technical quiz in SHRUTHI 2010
6.	0209-8066	V.Anusha	Won I prize for mini project in MGIT
7.	0209-8080	B.Praveena	<ul style="list-style-type: none"> <li>• Won I prize in software challenges at SNIST</li> <li>• Won I prize in 'C'olitare in Vasavi College</li> <li>• Won II prize in Debug in CBIT</li> <li>• Won merit prize for mini project at vasavi</li> <li>• Won I prize for mini project in MGIT</li> <li>• Sahasra scholarship winner</li> </ul>
8.	0209-8087	G.Swapna	Was certified as Ethical Hacking Expert under level –I by IIT Bombay
9.	0209-8083	Sk.Afreen	Was certified as Ethical Hacking Expert under level –I by IIT Bombay
10.	0209-8074	T.Mounika	Was certified as Ethical Hacking Expert under level –I by IIT Bombay
11.	0209-8114	Sreekar Reddy	Project in the TGMC context under IBM
12.	0209-8122	B.Venkatesh Kumar	Project in the TGMC context under IBM
13.	0209-8121	K.Venkatesh	III prize in Quark in Aurora for ppt on ligiber



S.No	Roll No	Student Name	Awards / Recognition
14.	0209-8084	N.Sindhu	Was certified as Ethical Hacking Expert under level –I by IIT Bombay
15.	0209-8081	N.Priyanka	Was certified as Ethical Hacking Expert under level –I by IIT Bombay
16.	0209-8071	R.Lakshmi Sindhura	Runner up in poster presentation in SNIST Runner up in fresh face competition (davance) conducted by Times of India across Hyderabad
17.	0209-8130L	T.Anirudh	Won I prize in short film competition
18.	0209-8076	Nikitha Agarwal	II Prize, Java Ring, Vasavi Colege, Srinidhi
19.	0209-8082	Sai Sanirthi.A	II Prize, Java Ring, Vasavi Colege, Srinidhi
20.	0209-8088	K.Vamsi Priya	Won I prize in paper presentation in qubit, MGIT
<b>2014-15</b>			
21.	160112733049	Rohith Ravi Teja Kilaparathi	<ol style="list-style-type: none"> <li>1. Won first position in KODEMANIA , TECSTASY 2014 conducted by IT dept, CBIT</li> <li>2. Secured first position in Hackerrank Codequest2 challenge</li> <li>3. Stood among the top 100 coders in the world conducted by Hackerrank in collaboration with CISCO</li> <li>4. Organized an event Data Addicts in Headstart 2K15</li> </ol>
22.	160112733011	Monica Donekal	<ol style="list-style-type: none"> <li>1. Internship at Deloitte U.S India consulting</li> <li>2. Paper presentation at BITS Pilani Hyderabad campus</li> <li>3. Paper presentation at VNR Vignana Jyothi college</li> <li>4. Dance performance at Shilpa Kala Vedika.</li> </ol>
23.	16011273301	Prathyusha	1. Internship at Microsoft IT



S.No	Roll No	Student Name	Awards / Recognition
	7	Akundi	<p>2. Paper Presentation at Bits Hyderabad on the occasion of Atmos 2014</p> <p>3. Paper Presentation at VNR Vigyana Jyothi Hyderabad on the occasion of Convergence 2013, won 2nd prize</p> <p>4. Participated at CodeforGood contest at JPMorgan Chase, Bangalore and stood 2<sup>nd</sup> among 18 other teams</p>
24.	16011273305 7	Sunnyhith K	<p>1. National Conference on Information Security NCIS 2015</p> <p>2. Internshi at Disside Design Studio</p>
25.	16011273301 4	Naveena Lasya	<p>1. Internship at Intigent</p> <p>2. Paper presentation At bits and vasavi</p> <p>3. Student convenor of Headstart</p> <p>4. Placement co ordintor and class representative</p>
26.	16011273305 0	Sai Chaitanya Tolem	<p>1. Intern at Riktam Technologies.</p> <p>2. Participated in the 'Ethical Hacking and Information security' workshop organized by SOURCENEXT.</p> <p>3. Participated in the National Level Workshop on Python organized by Department of Computer Science and Engineering, MGIT.</p> <p>4. Attended the 'Polymer Poltechnic Codelab' conducted by Google Student Club of CBIT 2015.</p>
27.	16011273305 8	Ferdose Ashraf	<p>1. Software Engineer Intern at EA Games Pvt Ltd.</p> <p>2. Android Intern at Makers Garage</p> <p>3. Project presentation on</p>



S.No	Roll No	Student Name	Awards / Recognition
			Virtual Mouse 4. Secured 1741 world wide rank in Facebook Hacker Cup 2014
28.	160112733028	Veera bharani	1. JP Morgan code for good Contest 2. Paper presentation at BITS 3. Organiser for headstart 4. Volunteer for headstart
29.	160112733048	Popuri Rohith Kumar	1. Tep design challenge winners 2. Nptel online course strategy introduction to game theory
30.	160112733054	Parsi Sharath Chandra	1. Internship at EA SPORTS 2. Won first prize in paper presentation at Osmania university
31.	160112733026	Sripriya pullela	1. Internship at Sailotech 2. Paper presentation at BITS Pilani 3. Paper presentation at vasavi
32.	160112733004	Gandamalla Hamsika	1. Paper presentation at Vasavi college of Engineering 2. Paper presentation at CBIT ( Second prize) 3. Gre316 4. TOEFL110
33.	160112733006	Juhitha vaddineni	1. Internship at Progress software
34.	160112733013	Monika J	1. Internship at Capital IQ
35.	160112733001	Alekhya Kalepu	1. Internship at Sailotech 2. Patashaalas 3. Paper at Vasavi
36.	160112733309	Jakke Pradeep Kumar	1. Earned a silver coin for my presentation about Information Security in Internet of Things, in National Conference on Information Security (NCIS). 2. Worked as a Web Developer and Designer in Disside Design Studio. 3. Was a part of the organizing team for an event AppMania in



S.No	Roll No	Student Name	Awards / Recognition
			my college. 4. Done a certification course in Advanced Java in CMC.
37.	16011273305 7	Sunnyhith Kanakanti	Organiser in Code for Good and AppMania in Headstart 2k15.
38.	16011273301 3	mounika jakkampudi	1) Internship at CYIENT limited. 2) Organizing committee for CARPEDIEM
39.	16011273304 7	Rishab Dharewal	Two mini project and one intern project
40.	16011273303 6	Bharath Erukulla	<ul style="list-style-type: none"> <li>• Presented a paper on ATM networks in Vasavi college.</li> <li>• Also participated in W3 tech quiz which is conducted by the college during an event.</li> </ul>
41.	16011273300 5	Harshal Kusuma	<p>Presented a paper on the NLP- natural language processing at accumen -2015 by vasavi college of engineering, Hyderabad</p> <p>One of the few winners in the tech quiz'15 organised by cbit headstart</p> <p>Participated in the most prestigious database competition -data addicts '15 by cbit headstart</p>
42.	16011273300 2	Anusha	Did an android game application which is ready to upload to the playstore
43.	16011173305 5	srujan kothuri	Scores: GRE: 316/340 TOEFL: 110/120
44.	16011273300 4	G.Hamsika	<p>Worked as volunteer for headstart'14.</p> <p>Gave paper presentation at Bits Hyderabad on Brain to Brain communication.</p> <p>Gave paper presentation at JNTU Hyderabad on Hashtag Banking.</p>
45.	16011273302 5	Sowmya Jammalamadak	Organiser of the w3tech quiz'15 for the headstart 2015



S.No	Roll No	Student Name	Awards / Recognition
		a	Participated in one of the database competitions -Data addicts 2015 organized by cbit
46.	160112733127	Shilpa Ramasahayam	Participated in Blood donation camp. Volunteered in headstart fest
47.	160112733021	Shruti Adoni	Got a certificate in bits institute of technology for paper presentation..
48.	160112733022	Siri permi	Organised a technical workshop in polytechnic college..named "WEB TECHNOLOGIES"..college name:govt institute of electronics Secunderabad.
49.	160112733302	Suraj	Bagged all India 264 rank in irate challenge on hackerrank.com. Bagged first position in Kodemia 2k15, CBIT. Active participant on both Hackerearth and Hackerrank. Successfully organized an event Data Addicts in Headstart 2k15. Successfully organized a workshop on python in MGIT
50.	160112733049	Rohith Ravi Teja Kilaparathi	Created street view of cbit college,conducted workshop on wiki-edit-thon,organised event kodecrypt
51.	160112733008	lasya priya s	Volunteered for ADORE INDIA organization in Hyderabad,Participated in poster presentation at IIT-Hyderabad.
52.	160112733043	Rahul Rachakonda	Organised a technical workshop in polytechnic college..named "WEB TECHNOLOGIES"..college name:govt institute of electronics Secunderabad.
53.	160112733302	Suraj	Ranked 3rd in Kodecrypt 2015 coding competition.



S.No	Roll No	Student Name	Awards / Recognition
			Represented as a member of Falcons team in cpl cup. captained for cse cbit cricket team.
54.	160112733060	vamshi reddy komatireddy	Has done an online course on "Strategy: Introduction to Game Theory" in NPTEL from IIT Kanpur with 86%. Has been doing "Technolgy Entrepreneurship Programme" by ISB from an year. It is a 2 year course.
55.	160111733061	Vikas koleti	Organiser of c-star event in head start cse fest
56.	160112733304	Md.irfan Ahmed	none
57.	160112733041	Nihal Inapanuri	1)organised an event called "w3 tech quiz" as a part of "Headstart" held by dept if Cse,Cbit. 2)presented a paper on "sixth sense technology" at BITS,Hyderabad. 3)gave a classical dance performance at shilpa ramam
58.	160112733011	Monica Donekal	Organised department fest
59.	160112733053	Sharan Raj Samunuri	Organizer in C Star. Volunteer in sruthi as a part of rangoli competition. Member of CSS. Was a part of basket ball team in sports.
60.	160112733307	Ramya .B	Captained Cse Kabbadi team
61.	160112733024	sreekanya	1. Head of Logistics- C.B.I.T MUN 2015 2. Organized paper presentation for Headstart 2k15
62.	160112733044	Rajashekar Reddy Boreddy	Organising part of OPEN MINDS. Actively participating in extra





S.No	Roll No	Student Name	Awards / Recognition
			curricular activities.
63.	16011273302 6	Sripriya pullela	Organizer of paper presentation of headstart 2k15, brand ambassador of viber, attended freedom fest by swecha
64.	16011273303 5	Bharadwaja Anaparty	Learned new technical things participating in technical seminars as Information Security.
65.	16011273330 6	vineesh	Organizer for an event called Data Addicts in technical fest of our college which was a huge success
66.	16011273301 6	Nikhila Saini	placement co ordinator, class representative, convenor, organizer and volunteer
67.	16011373312 2	Vishal T	Selected for Design role internship Thinktankers
68.	16011373300 3	B.Bhavya Reddy	Selected for Business Analyst role internship Thinktankers
69.	16011373301 3	A.Ravali	Selected for Business Analyst role internship Thinktankers
70.	16011373305 5	R Satwik Raj	Selected for Business Analyst role internship Thinktankers
71.	16011373303 4	Dheeraj M	Selected for Software Developer role internship Thinktankers
72.	16011373307 8	Nishita Reddy	Selected for Software Developer role internship Thinktankers
73.	16011373312 0	Sukeerth	Selected for Mobile App Developer role internship Thinktankers
74.	16011373318 3	Yaswant Reddy	Selected for Mobile App Developer role internship Thinktankers
75.	16011273303 0	Afshan	Selected for Content Writer role internship Thinktankers
76.	16011373307 3	Likhitha.K	Internship in android app development. Mini-project in ECIL on online cab booking services. 3rd prize in National Level Robotics competition at



S.No	Roll No	Student Name	Awards / Recognition
			NIT Warangal for line follower. Merit in mobile follower in National Level Robotics competition at NIT Warangal. Merit in Reverse Coding at ATMOS BITS hyd.
77.	16011373311 3	Dandge Sai Tej	1.Got Nominated from whole college for GOOGLE FACILITATOR PROGRAM 2. Had put two android applications in play store with each 5 star rating each 3. Recieved titles "Mr.Recursion" and "Mr.Dynamic Programmer" in a competition 4.Organized technical event C-Star in CBIT @HeadStart
78.	16011373332 2	Varalakshmi E	1)Awarded as a Best Cadet in NCC. 2)'C'-Certification in NCC. 3)Project-a)Video Conference in LAN. b)College management System.
79.	16011373308 0	Pallavi Yenigalla	CBIT MUN 2016 - Head Of Logistics Sponsor Relations Ethical Hacking Workshop organiser
80.	16011373310 4	Baddam Maheshwar Reddy	1.Participated in Cricket Team of CSE2
81.	16011373310 1	P Jayakrishna Anvesh	SELECTED FOR INTERVIEW IN IIIT-H LATERAL ENTRY ADMISSION. ATTENDED ETHICAL HACKING ,PYTHON WORKSHOPS. RECEIVED GOLD MEDAL FOR SECURING HIGHEST GRADE POINTS IN FIRST YEAR
82.	16011373309	adithya	worked as an



S.No	Roll No	Student Name	Awards / Recognition
	4	boyapati	organiser,volunteer for the headstart. attended for the ethical hacking workshop in 1st year in cbit also attended for the phyton workshop which was held in mgit.
83.	16011373309 9	N Balu Naik	participated in Kodecrypt exam in Headstart participated in python event in mgit
84.	16011373309 8	Aravindh B	1.One of the Organizer of cricket in AURA 2K16 2.Player of CBIT cricket team 3.Achieved 2nd position in Cricket at CVSR tournament 4.Reached the final of AURA 2K16 in cricket and the match is yet to be played.
85.	16011373309 5	Akshay Kumar V	Stood 7th in Kodecrypt during HeadStart 2k15. Participated in a paper presentation in BITS Pilani Hyderabad Campus during ATMOS 2k15. Participated in a workshop on Python. Participated in a workshop on Drupal. Organised the event Technopoly during HeadStart 2k15.
86.	16011373332 1	B.Haritha	1)Project done on automata-scada. 2) Got selected for infotech in diploma placements.
87.	16011373310 5	Mohammad Asif Ali	Organized the event C-Star in HeadStart 2015 at CBIT. Volunteered the event C-Star in HeadStart 2014 at CBIT.
88.	16011373332 1	B.Haritha	1)Project done on automata-scada. 2) Got selected for infotech in diploma placements.



S.No	Roll No	Student Name	Awards / Recognition
89.	160113733086	Sai Sruthi Chebrolu	1.Merit certificate for coding competition in MGIT fest. 2.3rd prize in Data Addicts 2k15. 3.Attended hacking workshop in ATMOS BITS Pilani Hyderabad 2k15. 4.Attended Data Structures workshop in CBIT. 5.Volunteer for paper presentation in HeadStart.
90.	160113733082	Nallamala Pranathi	1.Paper presentation volunteer certificate 2.Data addicts participate certificate
91.	160113733122	Vishal Nayakoti	kodecrypt 2014-volunteer certificate ISTE ppt event 2014-organiser certificate
92.	160113733120	Sukeerth	Kodecrypt-2014 : volunteer Kodecrypt-2015 : Certificate of merit Carpediem 2015 : organiser Kodecrypt 2015(October)-Organiser Ethical hacking workshop-headstart-2014
93.	160113733111	Sai Kiran Manthri	1. Attended workshop on Python language and achieved certificate on that. 2. Participated in workshop of cyber security and secured certification from University of Hyderabad.
94.	160113733111	Sai Kiran Manthri	1. Attended workshop on Python language and achieved certificate on that. 2. Participated in workshop of cyber security and secured certification from University of Hyderabad. 3.Member of CBIT photography club.



S.No	Roll No	Student Name	Awards / Recognition
95.	160113733106	Mohd Haji	1) Google , Microsoft security Hall of fame 2015. 2) Facebook security Hall of fame 2014 & 2015 for more than 15 bugs 3) Paypal Top 10 security researcher in 4th quarter 2015 . 4) Bugcrowd Top 100 bug hunter. 5) Rewarded more than \$10k by various companies for reporting security loopholes in their product. 6) Volunteered for event in Headstart. 7) Organized Ethical Hacking Workshop in college.
96.	160113733323	P.Keerthi	Certification in N.S.I.C training. participation in headstart event and events even in other colleges participation in co-curricular activities in music Dynamic Programmer certification by our sir.
97.	160113733116	Sandesh Kumar Gattu	1. Worked as Campus Ambassador in CBIT for N-VISION 2015(IIT Hyderabad Fest). 2. Won Merit certificates in Coding competitions C-STAR,KODEKRYPT(SHRUTHI-2015). 3. Achieved 20th rank in SIMO in 8th class(South Indian Mathematics Olympiad ).
98.	160113733187	K.Akhil	1.Went upto state-level for baseball . 2.won merits certificate in C-Star.
99.	160113733121	Pujari Varun Kumar	1. Selected to national level mathematics Olympiad 2 won merit certificate in



S.No	Roll No	Student Name	Awards / Recognition
			ALGOMANIA 3.selected for MHRD scholarship provided by central government 4.participated in state level athletics held in guntur.
100.	16011373309 2	S Vinisha	got 3rd prize in data addicts-headstart attended workshop in ATMOS fest in BITS merit certificates paper presentation in cbit design freaks volunteer
101.	16011373307 7	nikhila teki	1.A merit certificate in c star a technical event 2.attended workshop conducted by being zero on datastructures 3.attended ethical hacking workshop at BITS Hyderabad 4.got participation certificates in c star and kodecrypt technical events
102.	16011373310 2	kirran bhonagiri	1.merit certificate in technopoly. 2.Nalgonda district cricket player.
103.	16011373311 9	M.Suhas	Organiser of DATA ADDICTS event-2015 Volunteer of W3TECH QUIZ event-2014 Secured Certification of Merit from CSTAR event-2015
104.	16011373306 9	Mallu Jyotsna Madhavi	1.volunteered in,designfreaks HeadStart 2.attended worshop on hacking Bits hyd fest Atmos. 3.Received 3rd prize in coding competition Microcosm, MGIT 4.received merit certificates in coding competitions.



**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

**a) National**

<b>Seminar / Conference/ Workshops/ FDP</b>	<b>Topic</b>	<b>Funded by</b>
<b>Seminars</b>		
<b>2013-14</b>	A Seminar on MDefence	Institute
<b>Conferences</b>		
<b>2015-16</b>	National conference on “ Information security in Cloud computing “( NCIS-2015 )	TEQIP-II
<b>Workshops/FDP</b>		
2015-16	A Two Day Workshop on Intelligence and Security Informatics	TEQIP-II
	Two Week FDP on DataWare housing and Business Intelligence	TEQIP-II
	A Two Day Workshop on Application of Open Source computer tools in Biology	TEQIP-II
2014-15	Swecha Technical Training Programme	TEQIP-II
	Microsoft Cloud Competency Center (CCC) initiative program	
	Workshop on Next generation devices and computing	TEQIP-II
	ISTE-STTP Refresher Course on “Emerging Trends in Mobile and Cloud Computing”	TEQIP-II
2013-14	Two Day workshop on “System Admin , Databases and CMS	Institute
	Workshop on “Research Methodologies”	Institute
	A One day National level Technical workshop on “Big Data”	Institute
	A Two Day National Workshop on Advanced Ethical hacking & penetration	Institute
	A Two day workshop on “Virtualization and Cloud Computing”	TEQIP-II
2012-13	One day workshop on “Juniper Networks”	Institute
	A Two day workshop on Ethical Hacking	Institute
	Two day workshop on Leading from the Heart	TEQIP-II
	Train the trainers	Infosys



2011-12	Two day workshop on Android OS and development of Mobile applications	Institute
	Two day workshop on Micro Processors and Micro Controllers	TEQIP-II

b) International : Nil

## 21. Student profile course-wise:

Name of the Course (refer question no. 2)	Batch / Year (LYG)	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
B.E	2014-15	120	61	59	95.08	100
	2013-14	120	67	53	98.5	98.1
	2012-13	120	67	51	98.5	100
	2011-12	120	67	53	94.02	94.33
	2010-11	120	72	48	93.05	100
M.Tech	2014-15	35	23	12	78.26	83.33
	2013-14	36	22	14	90.90	85.7
	2012-13	36	24	12	87.5	91.66
	2011-12	18	13	5	92.30	100
	2010-11	18	9	9	88.8	88.8

## 22. Diversity of Students

Name of the Course (refer question no. 2)	Batch / Year (LYG)	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
B.E	2015-16	-	75	-	25
	2014-15	-	73	-	27
	2013-14	-	94	-	06
	2012-13	-	93	07	-
	2011-12	-	100	-	-
M.Tech	2015-16	3	100	-	-





	2014-15	-	97	03	-
	2013-14	-	100	-	-
	2012-13	-	100	-	-
	2011-12	-	99	01	-

**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

Batch	No. of GATE Qualified	No. of NET Qualified	No. of Defense Services	No. of Civil Services
2015-16	--	--	--	--
2014-15	14	--	--	--
2013-14	01	--	--	--
2012-13	--	--	--	--
2011-12	--	--	--	--
2010-11	05	--	--	--

**24. Student progression**

Student progression		Against % enrolled	
UG to PG		15	
PG to M.Phil.		-	
PG to Ph.D.		1	
Ph.D. to Post-Doctoral		-	
<b>Employed</b>			
Campus selection			
Academic Year	Total Students	No. of students placed	% of students
2015-16	143	118	82
2014-15	130	118	90
2013-14	123	113	91
2012-13	117	102	87
2011-12	118	110	93
Other than campus recruitment		10%	
Entrepreneurs		1%	

**25. Diversity of staff**

Percentage of faculty who are graduates	
of the same parent university	84.6%



from other universities within the State	7.7%
from other universities from other States	7.7%

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.** : TWO

**27. Present details about infrastructural facilities**

**a. Library**

Departmental Library is open in all the working hours i.e from 9.40 am to 4.05 pm.

The following facilities are available in the library:

- Access to Central Library
- Access to digital Library
- Reading Room
- Project Reports
- Journals

**b. Internet facilities for staff and students**

Name of the Internet provider : Pioneer Online Limited  
 Available bandwidth : 155 Mbps  
 Access speed : 100 Mbps  
 Availability of Internet in an exclusive lab : Available in all labs  
 Availability in most computing labs : YES, Available  
 Availability in faculty rooms : YES, Available  
 Institute's own e-mail facility to faculty/students: YES  
 Security/privacy to e-mail/Internet users : YES

**c. Total number of class rooms** : 16

**d. Class rooms with ICT facility**

Room Description	Usage	Shared / Exclusive	Capacity	Rooms Equipped with
Class Room No. K 304	Class room for 1 <sup>st</sup> year CSE-I	Exclusive	90	All class rooms are equipped with Black Board, Table, 4 Fans, 3 Tube Lights, 30 Benches , OHP and LCD Projector (shared)
Class Room No. M 308	Class room for 1 <sup>st</sup> year CSE-II	Exclusive	90	
Class Room No. K 303	Class room for 1 <sup>st</sup> year CSE-III	Exclusive	90	
Class Room	Class room	Exclusive	90	



No. C 205	for 3 <sup>rd</sup> year CSE-I			
Class Room No C 206	Class room for 3 <sup>rd</sup> year CSE-II	Exclusive	90	
Class Room No C 208	Class room for 3 <sup>rd</sup> year CSE-III	Exclusive	90	
Class Room No C 201	Class room for 4 <sup>th</sup> year CSE-I	Exclusive	90	
Class Room No C 202	Class room for 4 <sup>th</sup> year CSE-II	Exclusive	90	
Class Room No C 209	Class room for 2 <sup>nd</sup> year CSE-I	Exclusive	90	
Class Room No C 210	Class room for 2 <sup>nd</sup> year CSE-II	Exclusive	90	
Class Room No C 213	Class room for 2 <sup>nd</sup> year CSE-III	Exclusive	90	
Class Room No CB-301	Class room for Electives	Exclusive	60	
Class Room No. PG 203, C-212	Class room for M.Tech.	Exclusive	40	
<b>TUTORIAL ROOMS</b>				
Class Room No. D102	Class room for M.Tech. tutorials	Exclusive	60	
Class Room No. M 307	Class room for B.E tutorials	Exclusive	60	
Seminar Hall - D 101	CSE Seminar Hall	Exclusive	75	OHP and LCD, Mike, UPS
Seminar Room : D Block Seminar Hall Main, Ground Floor	Seminars / Workshops	Shared	200	OHP and LCD, Mike, UPS



Meeting Room : D Block Seminar Hall Ground Floor	Students Workshops	Shared	200	OHP LCD, Mike Set, UPS and Air Conditioners
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**e. Students' laboratories**

Curriculum Lab Description	Exclusive use/Shared?	Space(in Sq.mt) / # of Students	# of experiments	Quality of instruments	Lab manuals
<b>B.E 1/4</b>					
Computer Programming Lab	Exclusive-Lab – X	200sq.m / 65 (3.07sq.m)	25	Good Condition	Available
<b>B.E 2/4 – I Semester</b>					
Data Structures Lab	Exclusive-Lab - I	88sq.m /24 (3.6)	10	Good Condition	Available
Basic Electronics Lab	Shared with ECE Department	24	14	Good Condition	Available
<b>B.E 2/4 – II Semester</b>					
Java Lab	Exclusive-Lab - II	135sq.m /25 (5.4)	15	Good Condition	Available
Microprocessor Lab	Exclusive-Lab - I	88sq.m /24 (3.6)	15	Good Condition	Available
<b>B.E 3/4 – I Semester</b>					
DBMS lab	Exclusive-Lab - II	135sq.m /25 (5.4)	15	Good Condition	Available
OS Lab	Exclusive-Lab - III	88sq.m /25 (3.5)	11	Good Condition	Available
Mini Projects	Exclusive-Lab - I	88sq.m /24 (3.6)	15	Good Condition	Available
<b>B.E 3/4 – II Semester</b>					
Web Programming & Services Lab	Exclusive-Lab - II	135sq.m / 25 5.4	10	Good Condition	Available
OOSD Lab	Exclusive-Lab - III	88sq.m / 25	13	Good Condition	Available



<b>B.E 4/4 – I Semester</b>					
Distributed Systems Lab	Exclusive-Lab - I	88sq.m/ 25	05	Good Condition	Available
Embedded Systems Lab	Exclusive-Lab - XI	88sq.m/ 28	03	Good Condition	Available
Compiler Construction Lab	Exclusive-Lab - III	135sq.m / 25 5.4	12	Good Condition	Available
<b>B.E 4/4 – II Semester</b>					
Data Mining Lab	Exclusive-Lab - I	88sq.m /24 3.6	08	Good Condition	Available
Projects Lab	Exclusive-Lab – III & XI	88sq.m/ 28 3.14	--	Good Condition	Available
<b>M.Tech I year ,I Semester</b>					
Software Lab I ( AA & OOSE Lab)	Exclusive M.Tech Lab	170 sq.m / 36	12	Good Condition	Available
<b>M.Tech I year, II Semester</b>					
Software Lab II ( DC & ADBMS)	Exclusive M.Tech Lab	170 sq.m / 36	12	Good Condition	Available

**CENTRAL COMPUTATAION FACILITY - I YEAR LAB (ALL BRANCHES)**

S.No	Description	Qty
1	<i>Linux Server</i> Compaq Pentium III Proliant ML 330 @ 866 MHz, 512 MB RAM, 256 KB Cache, 2 X 9.1 GB SCSI HDD, 64 bit PCI VGA Card with 1 MB VRAM, 10/100 Mbps Ethernet Card, 14" Color Monitor, 52 X CD ROM Drive, 1.44 MB FDD.	01
2	HP Compaq DX 2000 Micro Tower, 3.0 GHZ HT, 512 MB RAM, 80 GB HDD@7200 rpm, 865 GV chipset, 10/100 Mbps Ethernet Card, 17"Color Monitor, 1.44 MB FDD, CD-RW 52x.	01
3	Compaq Pentium III @ 866 MHz, 64 MB RAM, 256 KB Cache, 20 GB HDD, 64 bit PCI VGA Card with 1 MB VRAM, 10/100 Mbps Ethernet Card, 15" Color Monitor, 1.44 MB FDD.	64



### CENTRAL COMPUTATION FACILITY - RESOURCE CENTRE (INTERNET)

1	Lenovo Intel Core 2Duo @ 2.4 GHz, 1 GB RAM, 320 GB HDD, DVD Drive, 17" TFT Color Monitor.	32
2	IBM Intel P-IV @ 3.0 GHz, 512 MB RAM, 80 GB HDD, 17" Color Monitor, CD RW.	28

f. Research laboratories : 01

### 28. Number of students of the department getting financial assistance from College.

#### Gate Scholarships

S.No	Academic Year	No. of Students
1	2015-16	03
2	2014-15	13
3	2013-14	31

#### Fee reimbursement

S.No	Academic Year	No. of Students
1	2015-16	346
2	2014-15	298
3	2013-14	247
4	2012-13	237
5	2011-12	227

### 29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

The demand for software professionals in national and international companies has made the department to increase the intake gradually from 20 to 180. Need for research has initiated the starting of PG course. Feedbacks from stakeholders are taken on regular basis to plan for introduction of new courses.

### 30. Does the department obtain feedback from

- **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**  
Yes, Feedback is obtained from the faculty and is discussed in the BOS meetings and syllabus is updated based on feedback and discussions
- **students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the**



**same?**

Faculties are well informed about their performance in teaching-learning-evaluation and special emphasis is made on the short comings of the faculty.

- **alumni and employers on the programmes and what is the response of the department to the same?**

Alumni and employers feedback is sought and taken into consideration during the framing of new syllabus and introduction of new courses.

**31. List the distinguished alumni of the department (maximum 10)**

S.No.	Name of the Student	Graduating year	Name of the organization
1	P Rahi Prakash	1989	Director, Microsoft, Hyderabad Area
2	S Sriram	1991	Founder CEO, Isilica Networks, Hyderabad
3	sharku	1991	Dy. General Manager , Information Technology Dept. , BDL, Bhanoor
4	B venkateswara Rao	1991	Sr.System Analyst, TSTS, Hyderabad
5	Neelima Reddy	2002	Head, Corporate affairs, MediaMint, Hyderabad
6	Nikhil Aitharaju	2010	Co-founder, TINT, Sanfrancisco, California, USA
7	Kulwanth Singh	2010	Application Analyst, UIDAI, India
8	Sruthi Reddy	2012	Software Development Engineer, CISCO, North Carolina
10	Harish S	2013	Director, Maha Electronics Pvt. Ltd, Hyderabad
11	G Nitish	2013	Founder, Speezo.com, Hyderabad
12	Pramod	2013	Scientist, ISRO

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

S.No.	Action taken	Date- Month - Year	Resource Person With designation	No.of students
1.	One day training on	05/05/2016	Ms. Sonam	48



	Oracle Java Certification Program		Oracle University	
2.	Image Processing	18 <sup>th</sup> April 2016	Dr. G. Sandhya, Professor, MVSREC.	51
3.	Information Storage and System	18 <sup>th</sup> April 2016	Mr.Sakha, Actifio, R&D.	109
4.	Soft Computing	18 <sup>th</sup> April 2016	Dr.CR Rao, HCU	63
5.	Workshop on Crowd sourcing platform using collaborative filtering	29 <sup>th</sup> Feb, 2016	Dr.Deepak Garg, Dept. of CSE, Thapr University, Patiala	69
6.	Workshop on Internet Of Things	18 <sup>th</sup> Feb,2016	Dr.DavidLillis, School Of Computer Science, University College of Dublin, Ireland	118
7.	Machine Learning	29th Jan,2016	Pruthvik & Niklesh.	39
8.	Emerging Trends	01st Nov,2015	Anudeep Sai .N,Analyst,Google	48
9.	Oracle Certification	17 <sup>th</sup> Aug,2015	Mr. Ramesh Tiwari	21
10.	Statistical Tools	13 <sup>th</sup> May 2015	Mr. T R Srinivas	31
11.	Web development 101	04 <sup>th</sup> April,2015	Ganesh & Swecha Team	65
12.	App development using Firefox OS	30 <sup>th</sup> Jan,2015	Ganesh& Swecha Team	93
13.	Emerging Trends in IT Sector	15 <sup>th</sup> Nov,2014	Anjani Kumar(Accenture)	74
14.	Multimedia Data Retrieval Systems	12 <sup>th</sup> Nov 2014.	Dr.D.S.Guru, University of Mysore	40
15.	Microsoft Edvantage Program	26 <sup>th</sup> Sep,2014		195
16.	Computing App development	26 <sup>th</sup> Sep,2014	Mr.Piyush Kumar	113
17.	Cloud Computing	10 <sup>th</sup> April,2014	Raj Kumar.B	34





18.	Out Reach programme by IITM	25 <sup>th</sup> March,2014	QEEE	31
19.	BIG Data	26 <sup>th</sup> Feb,2014	Dr. K. Sagar & U.M. Rao	64
20.	Drupal, System Administration	27 <sup>th</sup> July,2013	Praveen, Ganesh, Swecha Team	66
21.	system administration, Data bases and cms	26 <sup>th</sup> &27 <sup>th</sup> July,2013	Dr. M.Swamidas/ Praveen (Thinkthoughts)	112
22.	M-Defence	9 <sup>th</sup> July,2013	Swecha Team	26
23.	Case Tools	22 <sup>nd</sup> Jan,2013	Mr.Venu,IBM	28
24.	wave hosting-A5 Technologies	10 <sup>th</sup> Jan,2013	Swecha Team	53
25.	Junifer networks	1 <sup>st</sup> Aug,2012	Mr.B.Ramadasu/ Mr. S Sriram	32
26.	Research in Image Processing	08 <sup>th</sup> Feb,2012	Dr. Hari Rama Krishna	60
27.	Cloud Computing	4 <sup>th</sup> Nov,2011	Mr.Charan Deep &Team	77

**33. List the teaching methods adopted by the faculty for different programmes.**

- Lecture interspersed with discussions (Chalk and Board)
- Presentations with audio/visual aids like OHP and LCD
- Demonstrations (Programming related, video clips etc.)
- Group Discussions / assignments related to course
- Seminars, Presentation (by students)
- Project presentations, demonstrations
- Guest lectures by experts from industry and academia
- Asynchronous Discussion
- Apart from these methods, we also instruct the students to go through the Open online resources like NPTEL ([nptel.iitm.ac.in](http://nptel.iitm.ac.in)), MIT Open Courseware ([ocw.mit.edu/indez.html](http://ocw.mit.edu/indez.html)), MOOCS,

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**



Department ensure the objectives are met by revising the syllabus at regular intervals, including more practical components. Workshops, Seminars, quizzes are conducted and encouraging the students to do projects of societal impact.

These are monitored by mentoring the students, students' performance analysis based on tests, seminars, discussions and quizzes. Stakeholder's feedbacks are reviewed in department meetings

### **3.5 Highlight the participation of students and faculty in extension activities.**

Students and faculty voluntarily participate in a variety of extension activities as given below :

- Election duty
- Voter ID card enrollment, Issuing of voter ID cards with the help of government of India to the students and staff members.
- Plantation drive was organized and more than 50 trees were planted in the campus.
- A Mega Blood Donation camp was organized in collaboration with "Akhil Bharatiya Terapanth Yuvak Parishad".
- The NSS unit of CBIT, has organized an "EYE SCREENING TEST" camp
- The NSS unit of CBIT, has organized an awareness program on Anti Ragging and Drug Abuse awareness which was conducted by officials of City Civil Court Legal Services Authority
- Samagra Survey , Telangana State

### **36. Give details of "beyond syllabus scholarly activities" of the department.**

<b>S. No.</b>	<b>Event organized</b>	<b>Date-Month-Year</b>	<b>Resource Person with designation</b>	<b>%of students</b>
1	Office-365 Demonstration from Microsoft through NECX	10 <sup>th</sup> -12 <sup>th</sup> Mar, 2016	1. Rajini Aurora, 2. Srinivas NECX (Regional Director Microsoft)	100
2	Workshop on Crowd Sourcing Platform using Collaborative Filtering	29 <sup>th</sup> Feb, 2016	Dr. Deepak Garg, Dept. of CSE, Thapr University, Patiala	75
3	Workshop on Internet of	18 <sup>th</sup> Feb,2016	Dr. David Lillis, School Of Computer	80



	Things – The Next Great Computing Platform		Science, University College of Dublin, Ireland	
4	Seminar on Machine Learning	29 <sup>th</sup> Jan, 2016	Pruthvik & Niklesh, IIIT Hyderabad.	80
5	Pega UAP Kickoff	30 <sup>th</sup> Dec, 2015	1. Kris SV, Sr. Director, Industry Apps 2. Kamesh Rao, Director, Solution Frame Work Sarada Satapathy, Manager Trainee	100
6	Seminar on Emerging Trends	01 <sup>st</sup> Nov, 2015	3. Anudeep Sai.N, Analyst, Google	70
7	Seminar on Oracle Certification	17 <sup>th</sup> Aug, 2015	Prakash Kumar Tiwari, Oracle	75
8	Workshop on Intelligence and Security Informatics	24 <sup>th</sup> – 25 <sup>th</sup> July, 2015	1. Sunil Mohan Adapa-Free Software developer & Volunteer at Swecha 2. Kannan Srinathan- IIIT Hyderabad 3. Dr. D.Sudheer Reddy Scientist, ADRIN, Dept. of Space R.Ravinder Reddy, CBIT	75
9	Training for CSA & CSSA Certification for Pega 7.1		In-house faculty	100
10	Oracle Certification	5 <sup>th</sup> May' 2016	Ms.Sonam(Oracle University)	70
11	Introduced new Courses		In-house faculty	100



	1. Human Values and Professional Ethics 2. Soft Skills and Employability Enhancement			
12	Conducted QEEE Sessions.		Faculty from IIT, Chennai	

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department is accredited by NBA-AICTE.

Programme (UG/PG)	Description
U.G. B.E. in Computer Science and Engineering (CSE)	Started with 20 seats in 1985-86 Intake increased to 30 in 1991-92 Intake increased to 40 in 1993-94 Intake increased to 60 in 1994-95 Intake increased to 120 in 2000-01 Intake increased to 180 seats in 2013-14
	Accredited by NBA-AICTE in 1998 for 03 years Accredited by NBA-AICTE in 2004 for 03 years Accredited by NBA-AICTE in 2008 for 03 years Accredited by NBA-AICTE in 2013 for 2 Years Accredited by NBA-AICTE in 2013 for 5 Years
P.G. M.Tech in Computer Science and Engineering (CSE)	Started with 18 seats in 2002-03 Intake increased to 36 seats in 2011-12 Accredited by NBA-AICTE in 2016 for 03 years

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**The Process** – The SWOC analysis is carried out in two levels i.e. at the Department level and Institutional level. Each Department has conducted SWOC analysis by inviting all the stakeholders including present



students, alumni, industry and staff. Strengths and Weakness are discussed in detail with a focus on the respective Department domains and identified the same. Further, Opportunities and Threats are also discussed at Department level and reports are prepared.

At the Institution level, the SWOT analysis is conducted by inviting industry experts, alumni, staff and students.

### **STRENGTHS**

1. Highly acclaimed academic institute with best student input for UG.
2. Qualified, committed and motivated faculty members.
3. Excellent ambience with state-of-art equipment.
4. Recognized research center by Osmania University to provide doctoral research.
5. Well established library with good learning resources and also with online access to International and National journals.
6. Better campus placements with MNCs continuously for the past five years.
7. Department is maintaining the internet connection along with Wi-Fi throughout the campus and extended Wi-Fi facility to students' hostel.
8. Well placed alumni in reputed industry and academic institutions.

### **WEAKNESSES**

1. Lack of Government and/or industry granted/supported research projects.
2. Industry Institute Interaction is relatively poor.
3. Internship Projects.

### **OPPORTUNITIES**

1. Hyderabad being IT hub - scope for collaboration in respect of staff exchange, student internships, joint consultancy and projects.
2. Establishment of Incubation Centre and revenue generation through research and consultancy.
3. Improving quality of instruction by supplementing with e-learning.
4. Organizing value addition certificate.
5. Transforming research & development into patentable product.
6. Utilizing strong alumni network in Institution building.

### **CHALLENGES**

1. Up gradation of skill set with the fast changing technological developments.
2. Need for dynamic curriculum that adapts to technological advancements.



### **39. Future plans of the department.**

1. To establish an Machine Learning Laboratory, Image Processing which are thrust areas for research.
2. To encourage use of open source Technologies.
3. To establish a private cloud environment exposing teachers and students to the problem of cloud applications.
4. Plan to Up-grade the Laboratories
5. Plan to Undertake funded research projects



## Evaluative Report of the Department

- Name of the department & its year of establishment :**  
Electrical & Electronics Engineering & 1994
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**  
UG - B.E. (EEE),  
PG - M. E. (Power Systems & Power Electronics)
- Interdisciplinary courses and the departments involved**
  - Solid Mechanics(Civil)
  - Principles of Mechanical Engineering(Theory & Lab)(Mech)
  - Electronic Engineering-1 & 2 (Theory & Lab)(ECE)
  - Industrial Administration & Financial Management(Mech)
  - Managerial Economics & Accountancy(MBA)
  - Mathematics-III(M& H)
  - Soft Skills and Employability Enhancement(M&H)
- Annual/ semester/choice based credit system (programme wise)**

Semester Based System from 2016-17 onwards Choice Based Credit System will be followed
- Participation of the department in the courses offered by other departments**

Name of the Department/Programme	Sharing facilities
B.Tech (Bio-Technology)	Faculty(PEE)
B.Tech (Chemical Engineering)	Faculty, Electrical Engineering Lab(Basic Mech & Elec Engg.)
B.E(Civil Engineering)	Faculty (ET)
B.E(Computer Science & Engineering)	Faculty(PEE)
B.E(Information Technology)	Faculty(PEE)
B.E(Electronics & Communication Engg.)	Faculty, Electrical Technology Lab(ET)
B.E(Mechanical Engineering )	Faculty, Electrical Circuits and Machines Lab(ECM)
B.E(Production Engineering)	Faculty, Electrical Circuits and Machines Lab(ECM)



**6. Number of Teaching posts sanctioned and filled Professors/ Associate Professors/ Asst. Professors)**

	Sanctioned	Filled Regular	Contract
Professors	2	2	2
Associate Professors	4	2	0
Asst. Professors	18	10	8

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

S. No.	Name of the Faculty	Qualification			Designation	Date of joining the Institution	Specialization	No of Ph.D. Students guided for the last 4 years	No of Years of Experience
		Degree	University	Year					
1	Dr.P.V.Prasad	Ph.D M.Tech B.Tech	JNTU H JNTU A SVU	2008 2000 1997	Prof. & HOD	13-10-2000	Power Systems	NIL	18
2	Dr. K. Krishna Veni	Ph.D M.Tech M.S B.Tech	JNTU H JNTU H Bits Pilani Nagarjuna	2009 1996 1994 1992	Prof	06-10-1997	Power Electronics & FACTS	NIL	24
3	Dr.P.V.Balasubrahmanya	Ph.D ME BE	Bang Univ. REC- W, KU O.U	1997 1978 1976	Prof.	25-10-2012	Machine Drives & FACTS	NIL	34.5
4	Dr. B. Raghupathy	Ph.D, MS, BE	Perdue Uni Perdue Uni Madras Uni	1971 1967 1962	Prof.	10-11-2006	Electrical Engg.	NIL	37
5	Dr. G. Suresh Babu	Ph.D ME AMIE	JNTU H OU IE(I)	2013 2001	Assoc. Prof.	08-11-1998	Machine & Drives	NIL	26.5





6	Sri.V.Pra veen Kumar	M.E BE	OU	2002	Asso c. Prof.	22-01- 1998	Drives & Control,	NIL	20
7	Sri. A. Nagaraja Sekhar	B.E	OU	1982	Sr.As st. Prof.	07-07- 1987	Electric al Engg.	NIL	33
8	Sri. Ch. V. Krishna Reddy	ME BE	MKU Madra s Uni	2000 1998	Sr.As st. Prof.	01-11- 2002	Applied Electron ics	NIL	15.5
9	Dr. B. Suresh Kumar	Ph.D M. Tech BE	JNTU H JNTU H Bang Univ.	2014 2003 1999	Asst. Prof.	12-07- 2004	IT in Power Enginee ring	NIL	14.5
1 0	Sri. I.Pranav	M.Tec h BE	BIHE R Madra sUni.	2005 2001	Asst. Prof.	21-08- 2006	Instrum entation & Control Engg.	NIL	11
1 1	Dr. E.V.C. Sekhara Rao	Ph.D ME BE	OU OU JNTU	2014 2005 1999	Asst. Prof.	17-05- 2007	Industri al drives & Control	NIL	23
1 2	Dr. T. Murali Krishna	Ph.D. M.Tec h AMIE	JNTU A JNTU H IE(I)	2016 2005 2001	Asst. Prof.	03-10- 2007	Electric al Power Systems	NIL	15.5
1 3	Smt.N.V. Gowri	ME BE	ANN A TN PERI YAR	2004 2002	Asst. Prof	08-06- 2009	Applied Electron ics	NIL	12
1 4	Smt.P.Ko wstubha	ME B.Tech	Bang Univ. SVU	2003 1995	Asst. Prof.	11-08- 2010	Power Electron ics	NIL	13
1 5	Sri. M.Thirup athaiah	M.Tec h B.Tech	NITC Nagarj una Univ.	2005 2003	Asst. Prof.	27-07- 2009	Power Systems	NIL	11
1 6	Sri.P.He meshwar Chary	M.Tec h B.Tech	JNTU H JNTU H	2008 2005	Asst. Prof.	09-08- 2010	Electric al Power Systems	NIL	8
1 7	Sri.D.Har sha	M.Tec h B.Tech	JNTU H JNTU	2011 2008	Asst. Prof.	20-01- 2014	Power Electron ics	NIL	3.5



			H						
18	Sri.C.Harish	M.Tech B.Tech	NIT-Nagpur JNTU H	2012 2009	Asst. Prof.	05-03- 2014	Power Electronics and Drives	NIL	4.5
19	Sri.A.Bhanuchandrar	M.Tech B.Tech	JNTU K JNTU K	2014 2011	Asst. Prof.	22-01- 2015	Power Electronics	NIL	2
20	Sri. V Chandra Sekhar	ME B.Tech	OU JNTU H	2014 2011	Asst. Prof	20-02- 2015	Power Systems & Power Electronics	NIL	1.5
21	Sri. N Santosh Kumar	M.Tech B.Tech	JNTU H JNTU H	2009 2005	Asst. Prof	06-07- 2015	Electrical Power Systems	NIL	7.5
22	Smt. T Poornima Pankajam	M.Tech B.Tech	JNTU K JNTU K	2013 2011	Asst. Prof	04-01- 2016	Power System Control and Automation	NIL	1.5
23	Sri. C Srisailam	ME BE	RGTU OU	2009 2006	Asst. Prof	01-03- 2016	Control Systems	NIL	8.5
24	Sri. D Satish	M.Tech B.Tech	JNTU H JNTU H	2011 2005	Asst. Prof	03-03- 2016	Electrical Power Systems	NIL	9

**8. Percentage of classes taken by temporary faculty – programme-wise information**

UG- 30% PG-0%

**9. Programme-wise Student Teacher Ratio**

S.No	Programme	STR
1	BE(EEE)	15:1
2	ME(PSPE)	12:1

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**



S.No	Programme	STR
1	BE(EEE)	15:1
2	ME(PSPE)	12:1

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project wise.**

S.No	Investigator(s)	Title	Agency	Value	Year(s)
1	Dr. T. Murali Krishna	Development of Prototype NPC 3 phase 3 level inverter	TEQIP-II	29,000	2015-16
2	Dr. G. Suresh Babu	Solar Wind Hybrid Power Generation	TEQIP-II	40,000	2015-16
3	Mr. P. Hemeshwar chary	Non-axial automated bi-wheel transporter	TEQIP-II	30,000	2015-16
4	Dr. G. Suresh Babu & Dr. T. Murali Krishna	Design and Development Grid Tied Inverter for Renewable Sources Applications	Institution of Engineers (India)	55,000	2015-16

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

S.No	Investigator(s)	Title	Agency	Value	Year(s)
1	Dr. P.V. Prasad	MODROBS-Power Systems Lab	AICTE	12.25L	2013-14
2	Dr. G. Suresh Babu	Smart Solar Power Inverter	TEQIP-II	32,000	2013-14
3	Dr. G. Suresh Babu & Dr. T. Murali Krishna	Design & development of Solid rotor Alternator	CBIT R & D	40,000	2013-14

**13. Research facility / centre with**

- state recognition :  
Applied for a center of Excellence under Osmania University
- national recognition
- international recognition



#### 14. Publications:

- Number of papers published in peer reviewed journals (national /international)
- Monographs
- Chapter(s) in Books
- Editing Books
- Books with ISBN Nnumbers with details of publishers
- number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average
- SNIP
- SJR
- Impact factor - range / average
- h-index

	2011-12	2012-13	2013-14	2014-15	2015-16	2010-16
Total Publications in the Year (Journals + Conferences)	9+5=14	12+6=18	8+3=11	10+14=24	19+3=22	67+36=103
Publications in peer reviewed Journals	9	12	8	10	19	67
No. of Publications listed in International Database	9	12	8	10	19	67
Monographs	-	-	-	-	-	-
Chapters /Articles in Books	-	01	-	04	01	06
Books Edited	-	-	-	-	-	-
Books with ISBN/ISSN number with details of publishers	-	Electrical Engineering Concepts & Applications Cengage Publications 9788131517871	Basic Electrical & Electronics Engineering Cengage Publications 9788131519660	-	Control Strategies of Different loads to Enhance Power Quality LAMBERT Academic Publication	03



					978-3-659-86113-0	
Citation Index	-	6	2	-	5	6
SNIP	0.172— 1.128	0.063— 1.128	-	-	0.705	0.063— 1.128
SJR	0.13— 0.509	0.206-0.509	-	-	0.314	0.13— 0.509
Impact Factor	-	1.324	0.564 --5.5028	2.216 – 7.7385	3.86 – 7.7385	0.56-- 7.7385
h-Index	6-62	8-62	21	21	21	6-62

S. No	Staff Name					Chap. in Book	Books	Articles
		IJ	NJ	IC	NC			
1	Dr. K.Krishnaveni	05	02	02	04			
2	Dr.P.Venkata Prasad	03	-	02	04		02	
3	Dr.P.V.Balasubrahmanyam	05	-	04	02	02		
4	Dr. G. Suresh Babu	07	-	02	04			04
5	Sri.Ch. V. Krishna Reddy	02	-	01	01			
6	Dr.B. Suresh Kumar	23	-	02	03		01	
7	Dr.E. V. C. Sekhara Rao	10	-	01	01			
8	Dr.T.Murali Krishna	09	-	03	02			01
9	Smt. N.Vasantha Gowri	01	-	04	03			
10	Smt. P.Kowstubha	02	-	01	-			
11	Sri. M Thirupathaiiah	01	-	01	01			
12	Sri.D.Harsha	-	-	-	-			
13	Sri.C.Harish	01	-	-	01			
14	Sri. V. Chandrasekhar	-	-	-	01			
15	Sri. A Bhanu Chandar	01	-	-	-			
16	Sri. C. Srisailam	02	-	-	-			
17	Sri. D. Satish	01	-	-	-			

### 2015-16

**SNIP: 0.705    SJR=0.314    h-Index: 21    Impact Factor: 3.86 - 7.7385**

### International Journals 19

1. P. Kowstubha, K. Krishna Veni, and K. Ramesh Reddy, "Versatile Control Used for LLC Resonant Converter Suitable for Portable Applications", International Journal of Electrical Engineering &



- Technology (IJEET) Volume 6, Issue 9, Nov-Dec, 2015, pp.35-46, ISSN Print: 0976-6545 and ISSN Online: 0976-6553, (Impact Factor 7.7385).
2. P. Kowstubha, K. Krishna Veni, and K. Ramesh Reddy. "Optimum Design of LLC Resonant Converter using Inductance ratio ( $L_m/L_r$ ) ", Journal of Institution of Engineers( India) : Series B, ISSN: 2250-2106 (print version) ISSN: 2250-2114,
  3. G Suresh Babu, T. Murali Krishna and B.Vikram Reddy, "A Comparative Analysis Of Cogging Torque Reduction In BLDC Motor Using Bifurcation And Slot Opening Variation", American Journal of Electrical Power and Energy Systems, Vol.4, Issue.(5-1), pp.9-12, September-2015, Science publishing group, ISSN 2326-912X(P), ISSN 2326-9200(O), (Impact Factor 2.587)
  4. G Suresh Babu, T. Murali Krishna, "Feasibility of Hybrid Renewable System for Grid Free Remote Villages - A Case Study", International Journal of Electrical Engineering and Technology (IJEET), Volume 6, Issue 09, pp.28-34, Nov - Dec 2015, ISSN 0976-6545(P) ISSN: ISSN 0976-6553(O), (Impact Factor 7.7385)
  5. G Suresh Babu, " Innovative Practices in Optimal Utilization of Solar Energy (Solar Tracking System)", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering Vol. 3, Issue 12, pp.166-170, December 2015, ISSN 2321-2004(O) ISSN: 2321-5526(P), (Impact Factor 4.855).
  6. B. Suresh Kumar, K. Sireesha, and B. Rashmi "Harmonic Mitigation using Hybrid Filters", IJIREEICE, Vol. 3, Issue 7, pp.135-137, July, 2015, ISSN 2321-2004(O), ISSN 2321-5526(P), (Impact Factor 4.855)
  7. B. Suresh Kumar and G.Avinash, "Mitigation of Lower Order Harmonics in a Grid Connected Three Phase PV Inverter", International Research Journal of Engineering and Technology (IRJET), Vol. 2, Issue 5, pp. 1036-1046, August, 2015,ISSN 2395-0072(Print), ISSN: 2395-0056(Online), (Impact Factor 4.45)
  8. B. Suresh Kumar, B. Shrivanya, "Enhancement of Power Quality in Distribution System Using D-Statcom for Different Faults", International Journal of Science and Research (IJSR), Vol. 4, Issue 9, pp. 1006-1011, September, 2015, Index Copernicus Value, ISSN (Online): 2319-7064, (Impact Factor 5.611)



9. E. V. C. Sekhara Rao, "Torque Ripple Minimization of a Switched Reluctance Motor using Fuzzy Logic Control", International Journal on Recent and Innovation Trends in Computing and Communication, Vol. 3, Issue 7, pp. 4335-4342, July, 2015, ISSN 2321-8169(Print), ISSN 4335-4342(Online), (Impact Factor 5.837)
10. E. V. C. Sekhara Rao, "Unit Power Control And Feeder Flow Control Strategies For A Grid-Connected Hybrid System", (IJETTCS), Vol. 4, Issue 4, pp. 33-42, August, 2015, ISSN 2278-6856, (Impact Factor 4.413),
11. E. V. C. Sekhara Rao, "Space Vector Modulated Direct Torque Control of IPMSM Drive", International Advanced Research Journal in Science, Engineering and Technology, Vol. 2, Issue 8, pp. 43-49, August, 2015, ISSN2393-8021(Online), ISSN 2394-1588, (Impact Factor 3.943)
12. E. V. C. Sekhara Rao, "A single-stage PFC Half-Bridge converter controlled adjustable speed PMBLDCM Drive", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 4, Issue 7, pp. 5852-5860, July, 2015, ISSN 2320-3765(Print), ISSN 2278-8875(Online), (Impact Factor 5.621)
13. E. V. C. Sekhara Rao, "A Variable Speed Sensorless Induction Motor Drive Using DC Link Measurements", IJREEIE, Vol.4, Issue 7, pp.6632-6641, July, 2015, ISSN 2320-3765(P), ISSN 2278-8875(O), (Impact Factor 5.621)
14. T. Murali Krishna, "Matlab Simulink Modeling of Hybrid Cascaded Five Level Inverter", in International Journal of Science and Research, Vol. 4, No. 12, pp. 834-837 Dec 2015, ISSN 2319 - 7064 (O), (Impact Factor 5.611)
15. T. Murali Krishna, "Effect of Pulse Width Modulation on The Performance of Hybrid Cascaded Five Level Inverter", in International Journal of Science and Research, Vol. 4, No. 12, pp. 834-837 Dec 2015, ISSN 2319 - 7064 (O), (Impact Factor 5.611)
16. T. Murali Krishna, "Performance Comparison between Capacitor Clamped and Hybrid Multi Level Inverters", International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 4 Issue: 1, pp. 56-59, (IJRITCC), ISSN: 2321-8169, Jan-2016, (Impact Factor 5.837)



17. T. Murali Krishna, C. Bhargav Kumar "Modeling and performance comparison of two different hybrid multilevel topologies", *Procedia Computer Science Journal*, Vol.85, pp.641-647, ISSN 1877-0509, h-Index=21, SNIP= 0.716, SJR=0.314
18. N.Vasantha Gowri N.Srikanth Shashank Sankeerth M.Ramalinga Raju"CFD Analysis Of Metal Particle Movement And Electrical Stress In The Winding Of 220 kV, 100 MVA Transformer" *The Journal of CPRI*, Vol.12, Issue 01, pp.159-164. 2015, ISSN 0973-0338.
19. D.Satheesh, M.Sudhakar "Harmonic compensation of grid connected DG unit with APF of closed loop power control ", volume-20, issue-27, pp.7000-7013, *IJEEC*, ISSN 2048-1069, Feb-2016, (Impact Factor 3.86)

#### **International Conferences 03**

20. T. Murali Krishna, K. S. R. Anjaneyulu, "Coordination of Intelligent Controllers for shunt and series inverters of UPFC, IEEE International Conference on Power, Control, Communication and Computational Technologies for Sustainable Growth (PCCCTSG-2015) at GPREC, Kurnool pp. 11-12, Dec 2015.
21. N. Vasantha Gowri, M. Ramalinga Raju and B.P.Singh, "Occurrence of partial discharge induced by metal particles in high voltage transformer" IEEE conference - North American Power Symposium, University of North Carolina, 4 - 6th October 2015, PP 1-5, INSPEC Accession Number: 15617578, DOI:10.1109/ NAPS. 2015. 7335085.
22. M. Thirupathaiiah and P. Venkata Prasad, "Performance Analysis of Dynamic Voltage Restorer using PI and fuzzy logic controllers", *International Conference on Paradims in Engineering & Technology(ICPET-2016)*, pp. 171-175, MCET Hyderabad, during 2-3 March 2016.

#### **2014-15**

**h-Index: 21 Impact Factor: 2.216 – 7.7385**

#### **International Journals 10**

1. K. S. Sastry Musti, P. V. Balasubrahmanyam and M. Rajesh Reddy, "Power system state estimation using Microsoft excel", *Spreadsheets in education (eJSiE)*, Vol. 8, Issue 1, Article 1, pp.1-15, November, 2014, ISSN 1448-6156





2. B. Suresh Kumar, "Practical Approach for Detection Of Failure Of Distribution Transformers And Their Remedies", IOSR Journal of Engineering (IOSRJEN), Vol. 4, Issue 7, pp.42-45, July-2014, ISSN 2278-8719(Print), 2250-3021(Online), (Impact Factor 1.645)
3. B. Suresh Kumar, "A Versatile Control Scheme for UPQC for Power Quality Improvement using fuzzy controller", IOSR Journal of Engineering (IOSRJEN), vol. 4, Issue 9, pp 11- 20, September, 2014, ISSN 2278-8719(Print), 2250-3021(Online), (Impact Factor 1.645)
4. B. Suresh Kumar, "Analysis and Control for " Selective Compensation of Power Quality Problems through Three Phase Four Wire UPQC " International Journal of Engineering Research and Development, Vol 10, Issue 10, pp. 14-23, October,2014 ISSN 2278-800X(Print), 2278-067X(Online), (Impact Factor 2.7)
5. E. V. C. Sekhara Rao," Transient analysis of DFIG & synchronous generator connected to infinite bus", International journal of engineering and management research, Vol. 5, Issue 2, pp. 240-246, April, 2015, ISSN 2394-6962(Print), 2250-0758(Online). (Impact Factor 2.216),
6. G. Ravinder Reddy and M. Thirupathaiah "Multi-Pulse Voltage Source Converter Statcom For Voltage Flicker Mitigation", IJERA, , pp.25-31, ISSN 2248-9622, Jan-2015, (Impact Factor=5.169).
7. Kiran Kumar Karampudi, Cholleti Harish and Ankamma rao J, "Reduction of Torsional Oscillations in Large Turbine-Generator Set using Thyristor Controlled Braking Resistors", IJEET, Vol. 6, Issue 4, pp. 30-38, May, 2015, ISSN 0976-6545(Print), 0976-6553(Online), (Impact Factor=7.7385).
8. A. Bhanuchandar and M. Balasubba Reddy, "Simulation of Current Source Driver Circuit with PFC for Induction Motor Applications", International journal & Magazine of engineering, Technology, management and research, , Vol.1, Issue No.11,pp. 85-92, November, 2014, ISSN 2348-4845, (Impact Factor 3.554)
9. C.Srisailam, Parul Sharma, Sonali Suhane, "An Energy Analysis of lethal Biological Waste Through Anaerobic digestion ".International journal of Engineering Research & Technology(IJERT). Vol-03, Issue 07, pp-1442-1445, July -2014 ISSN :2278-0181(O), (Impact Factor 2.7)
10. C Srisailam , Parul Sharma , Sonali Suhane "Color Image Denoising Using Wavelet soft Thresholding", International Journal of Emerging



Technology and Advanced Engineering, Volume 4, Issue 7, pp. 475-478, July 2014, (Impact Factor 0.675)

### **International Conferences 02**

11. T. Murali Krishna and C. Bhargav Kumar, “A new Hybrid Multi Level Inverter to Improve the Performance of Induction Motor”, IEEE International Conference on Computation of Power Energy Information and Communication ICCPEIC-2015, at Chennai, pp. 264-268, at April, 2015, ISBN 978-1-4673-6524-6.
12. N. Vasantha Gowri, M. Ramalinga Raju and B.P.Singh, “Monte-Carlo simulation of particle movement in an un-energized transformer”, IEEE, International Conference on Electrical Insulation & Dielectric Phenomena CEIDP-2014, at Des Moines IA, pp. 574-577, on Oct-2014, INSPEC Accession Number 14836808.

### **National Conferences 12**

13. K. Krishna Veni, P. V. Balasubrahmanyam, T. Murali Krishna, “Research opportunities in rejuvenating the natural energy resources”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp. 59, on Jan-2015.
14. V Chandra Sekhar, Anudeep & K.Krishna Veni , “Novel SPWM Techniques for Multi Level Inverters Based STATCOM”, National Conference On Circuits, Signals And Systems (NCSS-2015), at MJCET, Hyderabad, on Jan, 2015.
15. P. Venkata Prasad and Ch. V. Krishna Reddy, “A Heuristic Method For Capacitive Compensation In Radial Distribution System”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp. 60, on Jan-2015.
16. P V Balasubrahmanyam, N.Vasantha Gowri and T.Murali Krishna, “Strategies for loss management in distribution system National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.59, on Jan-2015.
17. CBV Subbarayudu and G Suresh Babu, “Vision Of A Renewable Telangana”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.55, on Jan-2015.



18. P. C. Reddy, G Suresh Babu and C. Harish, “Agricultural infrastructure based energy resources”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.55, on Jan-2015.
19. G Suresh Babu, C. Venkata Ratnam and D.Harsha, “Energy needs verses environmental concern”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.56, on Jan-2015.
20. GNR. Prasad and G Suresh Babu, “Applications of soft computing in electrical engineering:a review”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.58, on Jan-2015.
21. B.Suresh Kumar and K.Ramesh Reddy, “Analysis of three phase shunt active filters”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.57, on Jan-2015.
22. B. Suresh Kumar and K.Ramesh Reddy, “Power system fault classification using ANN”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.58, on Jan-2015.
23. E. V. C. SekharaRao, “Renewable Energy Requirement For The Development Of Telangana”, National Conference on Role of Engineers in the Development of New State of Telangana, NC-REDNeST at CBIT, Hyderabad, pp.58, on Jan-2015.
24. N. Vasantha Gowri, M. Ramalinga Raju and B.P.Singh, “Analysis of high voltage transformers using computational fluid dynamics ,finite element method and Monte-carlo method”, National conference on HVE, JNTUH, Hyderabad, Page 19-20, on June, 2015.

**2013-14**

**h-Index: 21                      Impact Factor: 0.564 – 5.5028**

**International Journals 08**

25. Manglesh Dixit, Sandeep Kulkarni, ShubhangiPatil, Alok Gupta and P V Balasubramanyam, ‘Development of 440V/800A, High Temperature Superconducting Fault Current Limiter (SFCL)’, November 16-18, 2014(Asian Conference on Applied superconductivity and Cryogenics)



and Published in Indian Journal of Cryogenics, Vol 38, Number (1-4), 2013 .

26. B. SureshKumar, “Power Quality Improvement by Using Multipulse AC-DC Converters for Varying Loads”, International Journal of Scientific Engineering and Technology, Vol. 3, Issue No. 2, pp.78-84, February, 2014, ISSN : 2277-1581.(Impact factor 0.567)
27. B. Suresh Kumar, “Short Term Load Forecasting Using Artificial Neural Networks”, IJRCCT, Vol 3, Issue 2, pp 247-255, February,2014, ISSN 2278-5841(O), ISSN 2320-5156(P).
28. B. Suresh Kumar, “Voltage Sags and Harmonics Compensation by Using DVR Under Distorted Supply Voltage & Sags”, Journal of International Academic Research For Multidisciplinary, Vol. 2, Issue 2, pp.433-445, March, 2014, ISSN 2320-5083.(Impact Factor 1.625).
29. B. Suresh Kumar, “Compensation of Voltage Sags and Swells during Abnormal Conditions in Distribution Systems by Dynamic Voltage Restorer”, International Journal of Engineering Research and Applications, , Vol. 4, Issue 4, pp. 62-68, April, 2014, ISSN : 2248-9622, (Impact Factor 5.169).
30. B. Suresh Kumar, “Determination of Optimal Account and Location of Series Compensation and SVS for an AC Transmission System”, IJCER, , Vol.4 , Issue 5, pp. 50-57, May 2014, ISSN (e): 2250 – 3005, (Impact Factor 1.145).
31. B. Suresh Kumar, “Enhancement of Voltage Stability Using Static Synchronous Series Compensator (SSSC) with PI Controller-LLLG Fault”, IJARET Vol. 4, Issue 5, pp. 164-175, August, 2013, ISSN 0976-6480(P), ISSN 0976-6499(O), (Impact Factor 5.8376).
32. B. Suresh Kumar,” Voltage Stability Improvement Using Static Synchronous Series Compensator (SSSC) Using PI Controller”, IJEET, Vol. 4, Issue 5, pp. 9-19, October, 2013, - ISSN 0976-6545(P), ISSN 0976-6553(O), (Impact Factor 5.5028).

### **International Conferences 02**

33. P. Kowstubha, K. Krishna Veni, and K. Ramesh Reddy, “Review on Different Control Strategies of LLC Series Resonant Converters”, International Conference on Advances in Electrical Engineering,



ICAEE,2014, at Vellore, pp. 1-4, on Jan-2014, IEEE Publications. INSPEC Accession Number 14415014.

34. M. K. S. Satry, Rajiv Ramrattan and P. V. Balasubrahmanyam “Design and development of MATLAB toolbox for state estimation”, International Conference on Communication systems and network technologies, at Bhopal, pp. 995-1000, on April, 2014, ISBN 978-1-4799-3069-2.

#### **National Conferences 01**

35. M. Thirupathaiah and P. Venkata Prasad, “A novel method for placement of DG in radial distribution systems”, National Conference on Power Distribution(NCPD), DSD-CPRI, at Bangalore, on Feb-2014.

**2012-13**

**SNIP: 0.063—1.128 SJR:0.206-0.509 h-Index: 8 - 62 Impact  
Factor: 1.324 Citation Index 7**

#### **International Journals 12**

36. Ch. V. Krishna Reddy, K. Krishna Veni, G. Tulasi Ram Das and Siraj, “Small Signal Analysis of Flexible AC Transmission System using Interline Power Flow Controller”, JATIT, Vol. 47, No.2, pp. 840-851, January, 2013, ISSN 1992-8645(P), ISSN 1817-3195 (O). (SNIP=0.692, SJR=0.0.157), h- Index =12, (Impact Factor=1.171).
37. M. Dixit, Sunil Kedia, Sandeep Kulkarni, L. Andrews, Alok Gupta and P. V. Balasubrahmanyam, “Development of 440-V 800-A resistive – type modular superconducting fault current limiter with YBCO tapes”, IEEE transactions on applied superconductivity, Vol. 22, Issue 5, pp, 5603305, October, 2012, IEEE Publications, ISSN1051-8223(Print), 1558-2515 (On-line), (SNIP=1.128, SJR=0.509), h- Index =62, (Impact Factor=1.324)
38. B. Ramu and G Suresh Babu, “Design And Testing of Three Phase Converter Applicable To Four Quadrant Operation”, IJERA, Vol.3, Issue 2, pp. 1-6, April, 2013, ISSN 2248-9622.
39. G Suresh Babu, U K Choudary, G Tulasi Ram Das and A Mahesh Kumar, “An Economical Approach Of Designing A Three Phase Bridge Tied Inverter For Solar Applications.”, IJEETC, Vol. 1, No.1, pp. 30-42, October, 2012, ISSN 2319-2518, (Impact Factor=0.384)



40. G Suresh Babu, U K Choudary and G Tulasi Ram Das, “A Novel Approach In Designing A Filter For Solid Rotor Alternator To Minimize Harmonics”, IJEET, Vol 3, Issue 2, pp. 328-342, September, 2012, ISSN 0976-6553(O)- ISSN 0976-6545(P), (Impact Factor=3.2031).
41. B.Suresh Kumar and K.Ramesh Reddy, “The Application Of Particle Swarm Optimization To Passive Power Filter Design For 3phase 4-Wire System With Balance And Unbalance Load”, I.J.Elec&Electr.Eng& Telecoms, Vol.1, Issue 1, pp. 54-66, October, 2012, ISSN 2319-2518, (Impact Factor=0.384)
42. B. Suresh Kumar and K. Ramesh Reddy, “The Application of PSO to Hybrid Active Power Filter Design for 3phase 4-Wire System with Variable Load”, International Journal of Engineering Inventions, Vol.1, Issue 4, pp, 39-46, September, 2012, ISSN: 2278-7461, (Impact Factor=3.152).
43. B. Suresh Kumar, B. Veerasha Lingam, S. Praveena “Sag/Swell and Load Reactive Power Compensation Using UPQC\_S”, i-manager’s Journal of Power System Engineering, Vol 1, No.1, pp.9-16, April 2013, ISSN 2321-7499(Print), ISSN 2322-0376(Online), (Impact Factor=1.656).
44. B.Suresh Kumar, S. Praveena, K. P. Krishna Prasad “Hybrid Active Power Filter Design for 3-Phase, 4-wire System for Different Loads to Enhance Power Quality Using PSO”, i-manager’s Journal of Power System Engineering, Vol 1, No.1, pp. 36-44, Feb-2013, ISSN 2321-7499(Print), ISSN 2322-0376(Online).
45. E. V. C. Sekhara Rao, P.V. N. Prasad, “A Novel Method to Measure the Steady State Torque of Permanent Magnet Hybrid Stepper Motor using DSP Controller”, IOSRJEEE, Vol.1, Issue 6, pp. 22-24, July, 2012, ISSN 2278-1676, (Impact Factor=0.532).
46. E. V. C. Sekhara Rao, “Finite Element Method Using Pdetool Of Matlab For Hybrid Stepper Motor Design”, TELKOMNIKA, Vol.10, No.4, pp. 741-748, December, 2012, ISSN 1693-6930. (SNIP=0.063, SJR=0.205), h- Index =8, Citation Index 7.
47. T. Murali Krishna, K.S.R.Anjaneyulu, P.RamKishore and Kumar Reddy, “A Novel Method of Classifying Power Quality Disturbances”, International Journal of Electrical Engineering (IJEE), Vol.5, No.7, pp. 881-887, 2012, ISSN 0974-2158, (Impact Factor=3.203).



#### **International Conferences 04**

48. S.EswaraRao, Dr.Bishnu Prasad Muni, PrashantJain,CPV Krishna Reddy, PV Balasubramanyam, " Development of 2.5MVAR STATCOM for Arc Furnace Applications", 2012 IEEE International Conference on Power Electronics, Drives and Energy Systems, December16-19, 2012, Bengaluru, IECON 2012 - 38th Annual Conference on IEEE Industrial Electronics Society, pp. 1280-1285. E-ISBN 978-1-4673-2420-5, Print ISBN 978-1-4673-2419-9
49. Dr. G. Suresh Babu, "Novel Navigator-Bidirectional Converter- A Solution To HEV Systems", International Conference INDUCTICA, at Bangalore, Page1-6, on 21st -23rd November, 2012, CWIEME, Bangalore.
50. T. Murali Krishna, K. S. R. Anjaneyulu, P. Ram Kishore and Kumar Reddy, "Wavelet based Controller for UPFC to Improve Power Quality", ICSSS-2013, IEEE International Conference on Smart Structures & Systems (ISSS-2013), at Chennai, pp.24-27, on March 2013, IEEE publications, 978-1-4673-6240-5.
51. N. Vasantha Gowri and G Suresh Babu, "A Novel bidirectional DC-DC converter Drive", International Conference on Smart Structures and Systems(ICSSS), at Saveetha Engineering College, Chennai, pp.19-23, on March, 2013, IEEE Publications. ISBN 978-1-4673-6240-5

#### **National Conferences 02**

52. G. Vikram, B. Linga Reddy, P.Venkata Prasad, "Transient Fault Response Of Grid Connected Wind Electric Generators", National Conference on Recent Trends in Power Systems and Drives(RTPSD-2013), pp. 134-138, at CBIT, Hyderabad, January, 2013.
53. T. Rambabu, P. Veena Devi, P. Venkata Prasad, "Voltage Stability Index Based Optimal Placement of Distributed Generation for Improving Voltage Profile in Radial Distribution Systems", National Conference on Recent Trends in Power Systems and Drives(RTPSD-2013), pp. 210-215, at CBIT, Hyderabad, January, 2013.

**2011-12**

**SNIP: 0.172 – 1.128 SJR:0.13 -- 0.509**

**h-Index: 6 -- 62**

**International Journals 09**



54. SoumenKar, Sandeep Kulkarni, Manglesh Dixit, Kuwar Pal Singh, Alok Gupta, P V Balasubramanyam, S.K. Sarangi and V.V. Rao. 'Selection criteria of high T<sub>c</sub> superconducting tapes for superconductor fault current limiter applications'. (In press. Issue 99), for publication in IEEE Transactions on Applied superconductivity, Vol 22, No 3, ITASE9, June 2012. (SNIP=1.323, SJR=0.658), h- Index =62,.
55. SoumenKar, Sandeep Kulkarni, Manglesh Dixit, Kuwar Pal Singh, Alok Gupta, P V Balasubramanyam, S.K. Sarangi and V.V. Rao, 'Study on recovery performance of high T<sub>c</sub> superconducting tapes for resistive type superconducting fault current limiter applications'. Physics Procedia, Vol 36, pp.1231-1235 Science direct journal, 2012, (SNIP=0.521, SJR=0.256), h- Index =23,
56. Ch. V. KrishnaReddy, K. Krishna Veni, G. Tulasi Ram Das, Sampath Pulla , "Performance analysis of D-STATCOM using control techniques for load compensation", IJASR, Vol. 2, Issue 1, pp. 21, December, 2011, ISSN 2249-9954, (Impact Factor=0.24).
57. B. Suresh Kumar K. Ramesh Reddy, "Comparitive Study of Neuro Controller And Wavelet Transform for Shunt Active Filter in Reducing THD of a 3-Phase 4 wire System", International Journal of Computer Electrical Enginnering(IJCEE), Vol, 3, Issue 4, pp. 483-488, August, 2011, ISSN: 1793-8163.
58. B. SureshKumar, K. Ramesh Reddy, S. Archana, "The Application Of Particle Swarm Optimization To Passive Power Filter Design For 3phase 4-Wire System With Variable Load", IJAEST, Vol. 1, Issue 2, pp. 330-340, December, 2011, , ISSN 2249-913X(On-line).
59. B. SureshKumar, K. Ramesh Reddy, S. Archana, "The Application Of PSO To Passive Power Filter Design For 3phase 4-Wire System With Balanced & Unbalanced Loads", IJAET 2012, , Vol. 2, Issue 1, pp. 32-42, January, 2012, ISSN: 2231-1963, (Impact Factor=2.76).
60. E. V. C. Sekhara Rao, P. V. N. Prasad "Dynamic Performance Analysis Of Permanent Magnet Hybrid Stepper Motor By Transfer Function Model For Different Design Topologies", IJECE, Vol.2, Issue 2, pp. 191-196, April-2012, ISSN 2088-8708, , (SNIP=0.223, SJR=0.164), h- Index =2.
61. E. V. C. Sekhara Rao, "Torque analysis of permanent magnet hybrid stepper motor using finite element method for different design topologies", IJPEDS, Vol. 2, Issue 1, pp.107-116, March, 2012, ISSN 2088-8694, , (SNIP=0.253, SJR=0.149), h- Index =6.
62. T. Murali Krishna, K. S. R. Anjaneyulu, P. Ram Kishore Kumar Reddy "A Wavelet Neuro Controller (WNC) for Power Quality improvement in Power System", IJECE-, Vol. 3, Issue 1, pp. 21-34, 2011, ISSN 0974-2190, (Impact factor=2.34)





### International Conferences 03

63. Krishnanad K.R, P V BalaSubramanyam, S K Swain and P K Dash, 'S-Transform based spectral Energy feature space for fault location approximation'. International Conference on Energy, Automation and Signal – 2011. ICEAS –(28-30 Dec)- 2011, 39. Siksha 'O' AnusandhanUniveristy, Bhubaneswar, Orissa.
64. MalharPadhee, P K Dash, J P Patra and P V BalaSubramanyam. 'Digital protection of transmission lines using a new phasor measurement approach'. International Conference on Energy, Automation and Signal – 2011. ICEAS —(28-30 Dec 2011, 133. Siksha 'O' AnusandhanUniveristy, Bhubaneswar, Orissa.
65. E. V. C. Sekhara Rao, P. V. N. Prasad " PMH Stepper Motor Magnetic Circuit Design Using PDE Toolbox Simulations of Matlab for Different Topologies" Third International Conference on Control, Communication and Power Engineering, CCPE-2012, ACEEE, Bangalore, during 27-28 April 2012, pp.228-235, Print ISBN 978-3-642-35863-0, E-ISBN 978-3-642-35864-7

### National Conferences 02

66. K. Krishna Veni, P.S. Manidhar, "Modeling of Cascaded H-Bridge Multilevel Boost Inverter for Electric/Hybrid Electric Vehicle Applications", National Conference On Electrical Power Engineering And Industrial Drives, NCPEID-2012 at SNIST HYD, page 10, on May, 2012.
67. K. Krishna Veni, Ch. Narender Reddy, "Control of Series Resonant Converter used for Reduction of Switching losses", National Conference On Electrical Power Engineering and Industrial Drives, NCEPEID-2012 at SNIST HYD, pp. 15, on May, 2012.

**15. Details of patents and income generated** :NIL

**16. Areas of consultancy and income generated** :NIL

**17. Faculty recharging strategies**

1. Faculty will be given all the allowances like TA/DA/OD for attending Workshops and Conferences.
2. Faculty will be given SPCL for attending academic related works such as resource persons, examiners, BoS meetings etc.
3. Faculty will be given Rs. 10,000/- for Ph.D dissertation preparation.
4. Faculty will be given all the expenses for Journal publications.
5. Faculty will be relieved with one subject load, during the submission of Ph.D thesis
6. Faculty are encouraged to conduct workshops/conferences/training programs.



## 18. Student projects

- percentage of students who have done in-house projects including inter-departmental : 90-95%
- percentage of students doing projects in collaboration with industries / institutes : 5-10 %

## 19. Awards / recognitions received at the national and international level by

### \* Faculty

- Mr. T. Murali Krishna received Best Paper Award in IEEE ISSS-2013 conference.
- Ms. N. Vasantha Gowri received Best Paper Award in IEEE ISSS-2013 conference

### \* Doctoral / post doctoral fellows

### \* Students

2015-16				
S.No.	Name of the Student	Roll No.	Marks Secured	University Rank
1	B. Lekha	1601-12-734-005	4732 / 5400	VI

2014-15				
S.No.	Name of the Student	Roll No.	Marks Secured	University Rank
1	V. Jaya Sahithi	1601-11-734-005	4919 / 5400	I
2	E. Lakshmineelima	1601-11-734-009	4863 / 5400	II
3	G. Sindhuja	1601-11-734-018	4844 / 5400	III
4	P. Srikanth	1601-11-734-058	4725 / 5400	V
5	S. Kasi Priyanka	1601-11-734-008	4696 / 5400	VI

2013-14				
S.No.	Name of the Student	Roll No.	Marks Secured	University Rank
1	M. Rajesh Reddy	1601-10-734-045	4964 / 5400	I
2	K.Mahesh Vara Prasad	1601-10-734-036	4897 / 5400	III
3	D. Mounika	1601-10-734-013	4784 / 5400	IV
4	M. Divya Taja	1601-10-734-007	4780 / 5400	V
5	G. Sowjanya Laxmi	1601-10-734-019	4748 / 5400	VII
6	G. Manuja	1601-10-734-010	4729 / 5400	IX
7	S. Greshma Narres	1601-10-734-008	4727 / 5400	X



2012-13				
S.N o.	Name of the Student	Roll No.	Marks secured	University Rank
1	G. Pavani	1601-09-734-015	4911 / 5450	II
2	K. Lakshmi Priyanka	1601-09-734-010	4889 / 5450	IV

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

Academic Year	Course Title	Name of the Coordinator	Course	Duration	Funding Agency
2011-12	Nonconventional Energy for Everyone Every Day” <b>NEED</b>	Mr. G. Suresh Babu	Seminar	27-Aug-2011	CBIT
	Soft Techniques to Finite Element Model for Electrical Engineering Research Applications	Mr. E.V. Chandra sekhar rao	Workshop	16-17 Feb 2012	CBIT
	Electret-2012	Mr. B. Suresh Kumar	Symposium	19-20 Mar-2012	CBIT & Sponsorships
	INexorable march of electrical Drives in Industrial Arena INDIA-2012	Mr. G. Suresh Babu Ms. N. Vasantha Gowri	National Level FDP	25-29 June 2012.	TEQIP, IIPC, ISTE
2012-13	National Energy Conservation Week Celebrations	Mr. G. Suresh Babu Mr. T. Murali Krishna Ms. N. V. Gowri	Symposium	14-20, Dec 2012	NREDCAP



	Recent Trends in Power Systems and Drives	Dr. P. V. Prasad Mr. B. Suresh Kumar	National Conference	24-15 Jan 2013	TEQIP-II
	Electret-2013	Mr. T. Murali Krishna	Symposium	7-8 Mar 2013	CBIT & Sponsorships
2013-14	Application of Power Electronics in Power Systems	Dr. G. Suresh Babu	Refresher Course	25 Nov-06 Dec13	TEQIP-II
	Electret-2014	Mr. I. Pranav	National Symposium	19-20 Mar 2014	CBIT & Sponsorships
2014-15	Modern Trends in HVDC & FACTS	Dr. P. V. Prasad Mr. M. Tirupathaiiah	Workshop	18-20 Sep 2014	TEQIP-II
	Computational Fluid Dynamics to Electrical Engineering	Ms. N. Vasantha Gowri	Workshop	29 Oct-2014	TEQIP-II
	PCB Design	Mr. Ch. V. Krishna Reddy Dr. B. Suresh Kumar	Workshop	5-6 Nov 2014	TEQIP-II
	National Energy Conservation Week Celebrations	Dr. G. Suresh Babu Mr. T. Murali Krishna Ms. N. V. Gowri	Symposium	14-20, Dec-2014	NREDCAP
	Simulation of power electronic Converters	Mr. T. Murali Krishna	Workshop	29-31, Dec 2014	TEQIP-II



	using MATLAB				
	Role of Engineers in the Development of New State of Telangana	Dr. P.V. Prasad Dr. K. Krishna Veni Dr. G. Suresh Babu Ms. N. V. Gowri	National Conferenc e	23- 24, Jan- 2015	TEQIP-II
	Eletret(Sudhee -14)	Dr. E. V. C. Sekhar Rao	National Symposiu m	10-11, Mar- 2015	CBIT
2015-16	Vidyog-2016	Dr. G. Suresh Babu Mr. T. Murali Krishna	National Seminar	29 March 2016	BIS Hyderabad
	Eletret-2015	Ms. N. Vasantha Gowri	National Symposiu m	29-30 Sep 2015.	CBIT

## 21. Student profile course-wise:

Name of the Course	Academic Year	Applications received	Selected	Pass percentage
BE	2015-16	72	70/70	100
	2014-15	72	69/70	98.57
	2013-14	72	63/72	87.5
	2012-13	66	56/58	96.55
	2011-12	66	53/58	91.38
ME	2015-16	9	7	78
	2014-15	16	13	81
	2013-14	18	13	72
	2012-13	18	11	61
	2011-12	15	10	67



## 22. Diversity of Students

	% of students from the	% of students from the same state	% of students from other States	% of students from abroad
2011-12		100	-	-
2012-13		93.75	-	6.25
2013-14		99.167	0.833	-
2014-15		100	-	-
2015-16		99.167	0.833	-

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

	Percentage (%)				
	2011-12	2012-13	2013-14	2014-15	2015-16
GATE	21.21	23.4	25.39	18.57	11.42
CAT	3	9.375	5.405	1.4	4.9
TOEFL	10.6	9.375	6.76	2.85	8.1
GRE	15.15	14	20.27	4.29	9.8
GMAT/IELTS	1.5	-	-	-	1.8
Civil Services	-	-	-	-	-
Other services	-	4.7	7.9	-	5

## 24. Student progression

Student progression	Percentage(%)				
	2011-12	2012-13	2013-14	2014-15	2015-16
UGtoPG	9	15.625	33.3	7.14	4.9
PGtoM.Phil.	-	-	-	-	-
PGtoPh.D.	-	-	-	-	-
Ph.D. to Post-Doctoral	-	-	-	-	-
Employed Campus	74	64	66.6	68.5	79
Other than campus	-	4.7	1.5	-	-
Entrepreneurs	-	-	-	-	-

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	5/24 = 20.83
from other universities within the State	11/24= 45.83



from other universities from other States	8/24 = 33.33
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**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

Assessment Year	No of Faculty
2015-16	01
2014-15	02
2013-14	-
2012-13	01
2011-12	-

**27. Present details about infrastructural facilities**

**a. Library**

- Exclusive Department Library for ready reference to serve the needs of the students and staff.
- Database and Project reports of previous Academic Years
- News letters, magazines and notification regarding FDPs/Seminars/ Workshops

**b. Internet facilities for staff and students: 130 Mbps Wi-Fi**

**c. Total number of class rooms : 07**

**d. Class rooms with ICT facility**

Description of classrooms, faculty rooms, seminar, and conference halls					
Room Description	No.of Rooms	Usage	Shared / Exclusive?	Capacity	Rooms Equipped with
Class Room No. PG-103	1	Class room for 1 <sup>st</sup> Year PG	Exclusive	60	Glass Board, OHP, LCD Projector (Exclusive) with Wi-Fi
Class Room No. L-301	1	Class room for 2 <sup>nd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared) with Wi-Fi Connection
Class Room No. L-302	1	Class room for 2 <sup>nd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared) with Wi-Fi Connection
Class Room No. L-206	1	Class room for 4 <sup>th</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (Exclusive) with Wi-Fi



Class Room No. L-207	1	Class room for 3 <sup>rd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (Exclusive) with Wi-Fi
Class Room No. L-205	1	Class room for 3 <sup>rd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (Exclusive) with Wi-Fi
Tutorial room No L-205	1	Tutorial room for 3 <sup>rd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared)
Tutorial room No L-206	1	Tutorial room for 4 <sup>th</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector,
Tutorial room No L-207	1	Tutorial room for 3 <sup>rd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared)
Tutorial Room No L-301	1	Tutorial room for 2 <sup>nd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared) with Wi-Fi Connection
Tutorial Room No L-302	1	Tutorial room for 2 <sup>nd</sup> year	Exclusive	90	Glass Board, OHP, LCD Projector (shared) with Wi-Fi Connection
Seminar Room no M-004	1	Seminars	Shared	90	Glass Board, OHP, LCD Projector





**e. Students' laboratories**

<b>S. No</b>	<b>Laboratory description in the curriculum</b>	<b>Exclusive Use/ Shared</b>	<b>Space (sq.m) / Students</b>	<b>No.of experiments</b>	<b>Quality of Instruments</b>	<b>Lab Manuals</b>
1	Power Systems & Power Electronics	Exclusive	130/18	10	The Instruments are of reputed make, standard quality and in good working condition	Updated manuals are available.
2	Power Systems	Shared	90 / 25	10	-do-	-do-
3	Electrical Machines-II	Shared	176 / 25	10	- do -	- do -
4	Electrical Machines-I	Exclusive	176 / 25	10	- do -	- do -
5	Electrical Technology	Shared	176 / 25	10	- do -	- do -
6	Electrical Circuits & Machines	Shared	130 / 25	10	- do -	- do -
7	Electrical & Electronics Engg.	Shared	130 / 25	10	- do -	- do -
8	Electrical Simulation	Exclusive	75 / 25	10	- do -	- do -
9	Control Systems	Exclusive	75 / 25	10	- do -	- do -
10	Power Electronics	Exclusive	75 / 25	10	- do -	- do -
11	Micro Processor & Micro Controller	Exclusive	75 / 25	10	- do -	- do -
12	Circuits & Measurements	Shared	75 / 25	10	- do -	- do -
13	Projects	Shared	-	-	-	-



14	Digital Signal Processing	Exclusive	70 / 25	10	- do -	- do -
15	Integrated Circuits	Exclusive	70 / 25	10	- do -	- do -
16	Basic Electrical Engineering Lab	Shared	75 / 25	10	- do -	- do -

### Computer Lab

S No	Particulars	Quantity and Specifications	
1	No. of Computer Terminals	54	
2	Hardware Specification	20.No-Intel c/ore (i5) @ 3.3 GHZ, 1 TB HDD,8GB RAM, LCD Monitors & DVD R/W	
		10.No-Intel c/ore (i3) @ 3.2 GHZ, 320GB HDD,2 GB RAM, LCD Monitors & DVD R/W	
		17 No. P-IV , 40 GB HDD,20PC's - 2GB,3Pc's – 1GB RAM, 01- 512 MB RAM, 1.7 GHZ, 14" Monitor	
		7 No., P-IV , 1.7 GHZ, 512MB RAM, 20 GB HDD	
3	No. of Terminals on LAN/WAN	All systems	
4	Relevant Legal Software	Application Software	* (Mentioned below)
		System Software	Win 2000 / NT /XP profl
5	Printers	hp Laser – 3 no.s.	
6	Internet Accessibility	25 Mbps (leased line)	
7	UPS	45 minutes backup	

### DSP Lab

S No	Particulars	Quantity and Specifications
1	No. of Computer Terminals	23
2	Hardware Specification	10.No-Intel c/ore (i5) @ 3.3 GHZ, 1 TB HDD, 8GB RAM, LCD Monitors & DVD R/W



		13 Nos., P-IV, 80 GB HDD, 512 MB RAM, 3.0 GHz, 17" Monitor	
3	No. of terminals on LAN/WAN	All systems	
4	Relevant Legal Software	Application Software	* (Givenbelow)
		System Software	Win 2000 / NT /XP prof
5	Internet Accessibility	25 Mbps (leased line)	
6	UPS	45 minutes backup	

#### Software available

Software available In the Department		
S No	Name of the Software	No. of Licenses
1	Matlab 7.0.4	25 user
2	<i>PSCAD</i>	5 user
3	Dapper I*Sim Software	5 user
4	Multisim	7user
5	PSIM Software	1 user
6	Lab View	20 User

f. Research laboratories : NIL

#### 28. Number of students of the department getting financial assistance from College.

##### Scholar Ship

S.No	Name	UG/PG	Year
1	K. Ramya Sree	ME(PS&PE)	2011-12
2	D. Lakshmi Niveditha	ME(PS&PE)	2014-15

##### Projects

S.No	Name of the student	UG/PG	Title	Agency	Value	Year
1	Mr. M. Nagesh	ME PS&PE	Development of Prototype NPC 3 phase 3 level inverter	TEQIP-II	29,000	2015-16
2	Mr. A. Nitish	BE	Solar Wind	TEQIP-II	40,000	2015-



	Mr. K. Rishab Reddy Mrs. I. Pranathi Mr. K. Sai Prasanth		Hybrid Power Generation			16
3	Mrs.G.Harini Mr.T. Ptrachit Mr.Ch. Rahul Reddy Mr.Motasim Syed Mazhar	BE	Non-axial automated bi-wheel transporter	TEQIP-II	30,000	2015-16
4	Mr. A.V.N. Deepak Mr. Jimmy James Mr. S. Nitin Kumar Mr. R. Nikhil Raj	BE	Smart Solar Power Inverter	TEQIP-II	32,000	2013-14

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

NA

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
- Department constitute Board of Studies(BoS) with the professors, Associate Professors and Assistant Professors. This BoS will meet twice with all the faculty and discuss about the curriculum and teaching learning evaluation.
  - Based on the feedback from the faculty, the syllabus will be revised and new subjects will be introduced as per the need of industry.
  - The teaching –learning evaluation will also be discussed and accordingly whatever the suggestions given by the faculty will be incorporated.
- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
- Every semester once/twice the students will give feedback on on-line about the faculty and teaching-learning. The feedback will be sent to respective faculty.
  - Based on the feedback, faculty will be sent to different training



programs and also advice them to improve their performance

- c. alumni and employers on the programmes and what is the response of the department to the same?
- We will take the feedback from the alumni and employers. Based on the feedback curriculum will be revised if necessary and also infrastructure will be procured as per the requirement.

**31. List the distinguished alumni of the department (maximum 10)**

S.No	Name of the Student	UG/PG	Organization
1	K. Subash Reddy	PG	Saudi Airlines
2	B. Gayatri	PG	Infosys
3	B.S. Ravi Teja	PG	L&T
4	V. Chandrasekhar	PG	CBIT
5	Naveen	UG	Power Grid Corporation
6	Swaroopa Reddy	UG	BHEL
7	Srinivas	UG	JNTU Jagityal
8	Sindhuja	UG	TS Transco
9	Ambika	UG	Wells Fargo
10	Sahiti	UG	Infosys

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

Programmes organized towards Self Learning						
S.No.	Module Description	Title of the Programme	Dates	Co-ordinators	Resource Persons	Targeted Audience
<b>2015-16</b>						
1.	Seminar	Educational Utilization Programme ((VIDYOG))	29 Mar 2016	Dr. G. Suresh Babu & Sri. T.Murali Krishna		Students, Faculty & Industrials
2.	Technical Symposium	ELECTRE T -2015	29 & 30 Sept 2015	Smt N. V. Gowri Sri M. Tirupataiah	-	UG Students
3	Guest	High	16 <sup>th</sup>	Dr.B.	A.YELLA	UG and



	lecture	voltage test techniques	sept 2015	Suresh Kumar	IAH, Joint Director(Rtd.)	PG Students
4	Guest lecture	Protection and Automation	23 <sup>rd</sup> sept 2015	Dr.B. Suresh Kumar	B.satyanarayana RajuDE,TS TRANSCO	UG and PG Students
<b>2014-15</b>						
1	Conference	Role of Engineers in the Development of New State of Telangana (REDNest-2015)	23 <sup>rd</sup> & 24 <sup>th</sup> Jan'2015	Dr. G. Suresh Babu & Smt N. V. Gowri	Sri. Vidya Sagar Rao, CE, Telangana	UG, PG Students, Faculty & Industrials
2	Workshop	Simulation of Power Electronic Converters using MATLAB	29 <sup>th</sup> – 31 <sup>st</sup> Dec 2014	Sri T. Murali Krishna & Sri C. Harish		Faculty & PG Students.
3	Workshop	PCB Design	5 <sup>th</sup> & 6 <sup>th</sup> Nov2014	Sri. Ch. V. Krishna Reddy & Dr.B. Suresh Kumar	-	UG Students.
4	Workshop	Application of Computational Fluid Dynamics to Electrical Engineering Research	29 <sup>th</sup> Octr 2014	Smt. N. Vasantha Gowri	Dr.V.Ramani, AGM(Rtd), BHEL	UG, PG Students, Faculty & Industrialists
5	Workshop	Modern Trends in HVDC & FACTS	18th – 20th Sep 2014	Dr. P.V. Prasad Sri M. Tirupataiah	1. Sri V.R.Rao, Power Grid corporation ltd 2.Dr.Bhuvanewari, Professor,II	PG Students, Faculty & Industrials



					TD.	
6	Guest Lecture	Career Guidance	23rd July 2014	Dr. B. Suresh Kumar	Mr.V.Sai Prasad and Mr.Vinay Varma	UG & PG Students
<b>2013-14</b>						
1	Students National Level Technical Symposium	Electret'2 K14	19 <sup>th</sup> , 20 <sup>th</sup> March, 2014	Sri I. Pranav	Sri P.N.Rao, chairman, (ECM)	UG Students
2	Workshop – STTP – RC	Applications of Power Electronics in Power Systems	25 <sup>th</sup> Nov13 to 6 <sup>th</sup> Dec,13	Dr.G.Suresh Babu & Sri.Ch.V.Krishna Reddy	-	Faculty, & Industrialists
3	Guest lecture	SMART GRIDS	06 <sup>th</sup> September 2013	Dr.B. Suresh Kumar	Mr.T.Sreedhar, AE, CPDC, AP	Faculty, UG & PG Students
4	Guest lecture	Collaboration of Machine & Mission for the Technological Development of Nation	20 <sup>th</sup> September 2013	Dr.B. Suresh Kumar	Mr.M.Surya Narayana Murthy	Faculty, UG & PG Students
5	Guest lecture	Introduction to Power System Protection and Generator Construction	21 <sup>st</sup> August 2013	Dr.B. Suresh Kumar	Mr.B.Raju, ADE, MRT, KTPS	UG & PG Students
<b>2012-13</b>						



1	Conference	Recent Trends in Power Systems and Drives (RTPSD – 2013)	24 <sup>th</sup> – 25 <sup>th</sup> Jan 2013	Dr.P.V.Prasad & Dr.B.Suresh Kumar	Dr.M.Sayadulu, Prof., NIT, Warangal	Faculty, PG Students & Industrialists
2	Guest Lecture	overview of Switchgear and Protection	30-08-2012	Sri T. Murali Krishna	Sri.CH.Sri Prakash, DE APGENCO	Faculty, UG & PG Students
3	Students National Level Technical Symposium	Electret-2013	7 <sup>th</sup> - 8 <sup>th</sup> March 2013	Sri T. Murali Krishna	Dr. D. P. Kothari Mrs. Manjula	UG Students
<b>2011-12</b>						
1	Students National Level Technical Symposium	Electret'2K12	19 <sup>th</sup> & 20 <sup>th</sup> March 2012	Dr.B. Suresh Kumar	Dr.N.Yadaiah	UG Students
2	Workshop	INDIA-2012	25 <sup>th</sup> - 29 <sup>th</sup> June 2012	Dr. G. Suresh Babu	Dr.V.T.Somashekhar NIT, Warangal	Faculty, Research Scholars & Industrialists
3	Workshop	Soft Techniques to Finite Element Model for	16 <sup>th</sup> – 17 <sup>th</sup> Feb 2012	Dr. E.V.C.Sekahra Rao	Prof. M.Rama Murthy Rtd. IIT Kanpur	Faculty, Research Schol





		Electrical Engineering Research applications				ars & Industrialists
4	Guest Lecture	Practical aspects of Generation, Transmission, Distribution and Utilization	08-02-2012	Dr.B. Suresh Kumar	Sri.N.K.Nagarajan,EE(Rtd.), TNEB.	UG & PG Students

**33. List the teaching methods adopted by the faculty for different programmes.**

Before the commence of the semester, teaching faculty prepares the teaching material such as: notes on important points unit wise including the practical relevance as the case may be, prepare assignment questions unit wise. Through these, the student will be able to prepare well and discussing the class-work. Faculty, prepare the notes covering course objectives and course outcomes. Based on the need, the power point presentation will be prepared and made available to student. Depending on the chapter, thrust on practical application is emphasized. Thus, the student can grasp quickly and understands the practical importance from application point of view.

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The programme objectives and learning outcomes are monitored as per the procedure given below.

- Internal Evaluation: The academic performance of the students is evaluated through internal examinations, termed as: Mid Semester examination I and Mid Semester examination II. These mid-term examinations are conducted after Six weeks of contact classes. The pattern of examination is: The questions are set in two parts. Part A consists of three questions, carrying each question two marks, and all three is to be answered. Part B, consists of three questions, and any two questions is to be answered, each question carries seven marks. Thus internal Mid semester exams are conducted, and average of these two tests is considered for final evaluation. In addition, from time to time covering all the units, assignments are given, which carries five marks. Thus, the internal evaluation is done for twenty five marks.
- While framing the syllabus for each course, the course objectives and course outcomes will be brought out. The emphasis here is that, at the



beginning of the semester, three to four course objectives will be brought out, covering all the units, for each course. After completing the course, what the student is expected to acquire knowledge, as course outcome will be brought out in three to four summarizing points covering all the units.

- Thus, the basis for evaluation is formulated. It is important that, the mid-term examination questions have to be mapped on to learning outcomes.
- The important aspect in conducting the internal examinations is to record, the percentage of students achieved in set target for each of the learning outcomes.
- University Examination Evaluation: The academic performance of the students is evaluated through final university examination. The university examination is conducted at the end of the contact classes and by this time, internal evaluation is completed. The university examination is conducted for 75 marks. The general pattern of the paper consists of two parts. PART-A consists of short answer questions for 25 marks. PART-B consists of long answer questions for 50 marks from all the units which consists of seven questions each carries 10 marks. The student has to answer five questions out of seven.
- In all generality, the university questions need to be mapped on to the course outcomes, for evaluation. Since, this being the university examination, the answer scripts are not available, to correlate the learning outcomes. Therefore, average marks obtained by the entire class are considered. Based on this, targeted attainment level and achieved attainment level is evaluated.

### **3.5 Highlight the participation of students and faculty in extension activities.**

- Engineers Without Borders students Chapter CBIT  
On weekends, the students are giving lectures for the Govt. schools where there are lack of teachers. Students are also helping in installation of computers at Govt. Schools.
- Energy Savers Club  
Students and faculty are visiting the schools nearby college and educating the children on the energy conservation by conducting various events during National Energy Conservation Week Celebrations. These celebrations are organized in association with Telangana State Renewable Energy Development Corporation Ltd. (TSREDCL)



**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Department is conducting a national level technical symposium “Electret” (Sudhee) every year which consists of guest lecturers paper presentations, poster presentations, quiz, project demonstrations etc.
- Every year we also conduct “Sruthi” which is technical & Cultural fest at college level. Under this banner, we also conduct Quiz Program and mock placement training programs etc.
- Students are encouraged to participate in internships in various organizations during semester breaks.
- Students are actively participating in various clubs in the college like energy savers club, communicando-club, toast masters club etc.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

The programs are accredited by National Board of Accreditation and the details are given below

Program of study	Description
UG – B.E (Electrical and Electronics Engineering)	Accredited by NBA-AICTE in <u>2004</u> for <u>3</u> years Accredited by NBA-AICTE in <u>2008</u> for <u>3</u> years Accredited by NBA-AICTE in <u>2013</u> for <u>2</u> years
PG- M.E. (Power Systems & Power Electronics)	Accredited by NBA-AICTE in <u>2016</u> for <u>2</u> years

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**STRENGTH**

- Well Qualified & Experienced Faculty
- Highly skilled Technical & Supporting staff
- Well equipped Labs
- Defined Curriculum & Good Infrastructure
- Meritorious students & Excellent placement for UG Students.
- Faculty publications in referred journals
- Distinguished Alumni

**WEAKNESS**

- Industry consultancy
- Funded research projects

**OPPORTUNITY**

- Scope to establish COE (Center of Excellence) in emerging fields with the collaboration of R&D organization and incubation centers.
- Modernization of Laboratories.
- To strive for employability for the students in core areas.



- To encourage the faculty and to provide necessary facilities for pursuing demand driven research.
- Research collaboration with BHEL, IITH etc.

#### **CHALLENGES**

- To attract faculty with research and industry experience
- To get multi-disciplinary experts as faculty (partial load teaching)
- Attracting meritorious students for PG program

### **39. Future plans of the department.**

#### **FUTURE PLANS**

- Establishing Roof top solar power plant
- Establishing of real time power system lab with PMUs
- Establishing of advanced / digital control Laboratory
- Introducing inter disciplinary PG programs
- Establishing of energy storage / super conducting Laboratory
- Facilitating & showcasing Hardware project lab
- Establishing power electronics lab for industrial applications.



## Evaluative Report of the Department

- 1. Name of the department and its Year of Establishment:**  
Electronics and Communication Engineering & 1979
- 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
  - B.E(ECE)
  - M.E (Communication Engineering)
  - M.E (Embedded Systems & VLSI Design)
- 3. Interdisciplinary courses and departments involved:**
  - Electronic Engineering 1 & 2 -- EEE Dept. (Including Labs)
  - Basic Electronics -- MED, CSE, IT & PE. (Including Lab)
- 4. Annual/ semester/choice based credit system (program me wise) --**  
*Semester system and choice based credit system*
- 5. Participation of the department in the courses offered by other departments:**
  - **Department of English and Mathematics** offers  
English-I & II  
Mathematics I & II  
Fourier Analysis and Partial Differential Equations Complex Analysis and Random Processes  
English Language Laboratory – I & II  
Soft Skills and Employability Enhancement
  - **Department of Physics** offers  
Engineering Physics I Applied Physics  
Engineering Physics Lab – I & II  
Department of Chemistry offers  
Engineering Chemistry I & II Engineering Chemistry Lab – I & II
  - **Department of Electrical and Electronics Engineering** offers  
Electrical Technology  
Electrical Technology Lab  
Department of Mechanical and Production Engineering offers  
Engineering Graphics  
Elements of Mechanical Engineering  
Industrial Administration and Financial Management  
Entrepreneurship  
Intellectual Property Rights Workshop
  - **Department of Computer Science Engineering** offers



Programming and Problem Solving  
Object Oriented Programming through C++ Programming Lab – I & II

- **Department of Civil Engineering offers**  
Engineering Mechanics  
Environmental Studies  
Human Values and Professional Ethics Disaster Management
- **Department of School of Management Studies offers**  
Managerial Economics and Accountancy

**6. Number of Teaching sanctioned posts and filled (Professors/Associate Professors/ Asst. Professors)**

	Sanctioned	Filled
Professors	5	5
Associate Professors	8	6*
Asst. Professors	29	34*

\* 1 Associate Professor and 4 Assistant Professors on long leave

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.N.V.Koteswara Rao	Ph.D	Professor & Head	Microwave Electronics	25	--
Dr.D.Krishna Reddy	Ph.D	Professor	Mobile Communication, GPS and 3G.	21	--
Dr.A.V.Narasimha Rao	Ph.D	Professor	Microwave, Wireless, Satellite Communications, Data & Computer Communication and Signal Processing	27	--
Dr.K.Subba Rao	Ph.D	Professor	Signal Processing and Signal Design	33	09
Dr. A.D. Sarma	Ph.D	Professor	Navigation Electronics	33	17



Sri.K.Sudershan Reddy	*Ph.D	Assoc.Prof	Microprocessors	25	--
Dr.P.Narahari Sastry	Ph.D	Assoc.Prof	Digital Image Processing	15	--
Sri.M.V.Nagabhushanam	M.E	Assoc.Prof	Instrumentation & Controls system	16	--
Smt.N.Aivelumanga	*Ph.D	Assoc.Prof	Digital Systems	13	--
Dr. A.Vani	Ph.D	Asst. Prof	Digital systems & Computer Electronics	15	--
Sri.M.Ramana Reddy	*Ph.D	Asst. Prof	Instrumentation and Control Systems, CMOS VLSI (Communications)	15	--
Ms.K.S.R.S.Jyothsna	M.E	Asst. Prof	Digital Communications	10	--
Sri.M.V.Kiran Kumar	M.E	Asst. Prof	Electronics & Instrumentation	14	--
Smt.A.Satyavati	M.Tech	Asst. Prof	Digital Systems & Computer Electronics	14	--
Sri.A.Krishna Kumar	M.Tech	Asst. Prof	VLSI	10	--
Sri.N.Jagan Mohan Reddy	M.E	Asst. Prof	Communication Engineering	11	--
Sri.T.Aravinda babu	*Ph.D	Asst. Prof	Communication & Signal Processing	11	--
Smt.N.Dhanalakshmi.	M.Tech	Asst. Prof	Digital Systems And Computer Electronics		--
Sri.P.Sathish	*Ph.D	Asst. Prof	Embedded Systems	08	--
Sri.G.Mallikarjuna Rao	*Ph.D	Asst. Prof	Communication and Radar Systems	10	--
Smt.K.Suman	Ph.D	Asst. Prof	Communication Engineering	09	--
Smt.B.Neeraja	M.Tech	Asst. Prof	Digital Systems	05	--
Sri.T.Sridhar	M.Tech	Asst. Prof	Systems and		--



			Signal Processing	05	
Sri.G.V.Pradeep kumar	*Ph.D	Asst. Prof	Communication Engineering	08	--
Sri.P.Chandra Shekar	M.E	Asst. Prof	Electronics	09	--
Sri.E.Chandra Shekar	M.E	Asst. Prof	Embedded Systems and VLSI Design	06	--
Smt.Ch.Raja Kumari	M.E	Asst. Prof	Applied Electronics	07	--
Smt.B.Roopaa	M.E	Asst. Prof	Embedded Systems	07	--
Smt.J.Mounika	M.E	Asst. Prof	Systems & Signal Processing	02	--
Sri. Md. Faizur Rahaman	M.E	Asst. Prof	VLSI Design	02	--
Sri. Narayana Bhagirath T	M.S	Asst. Prof	Microelectronics and VLSI Design	06	--
Sri. Mohd Ziauddin Jahangir	M.E	Asst. Prof	Embedded Systems and VLSI Design	01	--
Smt. A.Supraja Reddy	*Ph.D	Asst. Prof.	Remote Sensing and GIS	08	--
Sri.J.Bala Krishna	M.Tech	Asst. Prof	VLSI Design Automation & Techniques	03	--
Sri. B.Pruthvi Raj Kumar	M.Tech	Asst. Prof	Electronic Systems and Communications	0	--
Sri. P.Siva Krishna	M.Tech	Asst. Prof.	Sensor System Technology	0	--
Sri. N.Pavan Kumar	M.Tech	Asst. Prof.	Communication Systems	1	--
Sri. Ch. Deepak	*Ph. D	Asst. Prof.	VLSI and Embedded	3	--
Sri. B. Shiva Prasad	M.Tech	Asst. Prof.	Advanced Communication Systems	0	--
Dr. B.Malleswari	Ph.D	Assoc.Prof	GPS & Mobile Communications	20	--
Sri. D.Venkat	M.Tech	Asst. Prof	Digital Systems	20	--





Reddy					
Sri. U.Konda Reddy	M.Tech	Asst. Prof	VLSI	10	--
Sri. M. Srinivasa Reddy	M.Tech	Asst. Prof	VLSI	06	--
Sri. A. Raj Kumar	M.Tech	Asst. Prof	Instrumentat ion & controls	07	--

**8. Percentage of classes taken by temporary faculty – programme-wise information:** NA

**9. Programme-wise Student -Teacher Ratio:** 15:1

**10. Number of academic support staff (technical) and administrative staff; sanctioned andfilled:** 14 Sanctioned & 14 Filled

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

8-Projects (R&D/ Consultancy, 2- Sponsored FDP Programs, 1-Travel Support grant.

***FDPs/Seminar grants:***

Year/ Duration	Funding agency	Title	Faculty Name	Amount Propos ed (Rs. in Lakhs)
June 2015	AICTE	FDP on Recent Trends and Advancements in VLSI for Embedded Applications	Dr. N. V. Koteswara Rao Smt. N. Alivelu Manga Sri. G. V. Pradeep Kumar Sri. P. Chandra Sekhar	4.05
December 2013	AICTE	Real Time Signal Processing	Dr. N. V. Koteswara Rao Dr. K. Subba Rao Sri. T. Aravinda Babu Ms. N. Dhana Lakshmi	5.00



November 2013	AICTE	GPS and its Augmentation systems– GAGAN for Aircraft Navigation	Dr. D. Krishna Reddy	1.50
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**TRAVEL SUPPORT (2012 onwards):**

Year	Funding Agency	Description	Faculty Name	Amount (Rs. in Lakhs)
2014	DST	Travel Grant	Prof. A.D.Sarma	1.14

**12. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received.**

**ONGOING PROJECTS:**

Year/Period	Funding agency	Project Title	Faculty Name	Amount (Rs. in Lakhs)
2013-16	AICTE, New Delhi	Design and Development of Palm Leaf Character Recognition	<b>PI:</b> Dr. P N Sastry <b>Co-:</b> Dr.N.V.Koteswara Rao	7.31
2014	Space Applications Centre (SAC), ISRO, Ahmedabad	Indian Regional Navigational Satellite System (IRNSS) User Receiver	Faculty actively involved: <ul style="list-style-type: none"> <li>• Dr.A.D.Sarma</li> <li>• Dr.N.V.KoteswaraRao</li> <li>• Dr.D.KrishnaReddy</li> <li>• SmtAliveluManga</li> <li>• SriSatishPasika</li> <li>• SriT.Sridhar</li> <li>• Smt A.SuprajaReddy</li> <li>• Smt UttamaGhosh</li> </ul>	20 (approx.)
2015-16	RCI, DRDO, Hyderabad	Performance Evaluation of IRNSS in the Context of user	<b>PI:</b> Dr.A.D. Sarma <b>Co-I:</b> Dr.D. Krishna Reddy Sri .P.Sathish	15
2015-18	ISRO, Bangalore (under RESPOND programme)	A Local Short Term Model for Forecasting Ionospheric Scintillations for	<b>PI:</b> Dr.A.D. Sarma <b>Co-I:</b> Dr.N.V.Koteswara Rao Smt.N.Aivelu Manga	17.66



2015	AICTE, New Delhi (under MODROB scheme)	Multifunction Frequency and Time- Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and	<b>Chief Coordinator:</b> Prof.N.V.Koteswara Rao <b>Co-Coordinator:</b> Prof.A.D.Sarma	20
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#### COMPLETED PROJECTS:

Year/Period	Funding agency	Project Title	Faculty Name	Amount (Rs. in Lakhs)
2012-14	SERB, DST, New Delhi	Data Processing Techniques to Improve Real-time Performance of GNSS Systems	<b>PI:</b> Dr. D. Krishna Reddy <b>Co-I:</b> Dr.A.D.Sarma	9.404
2013-15	RCI, DRDO, Hyderabad	Design and Development of DSP Processor Based Signal Processing Unit for Ring Laser Gyro	<b>PI:</b> Dr.K.Subba Rao <b>Co-I:</b> Dr.N.V.Koteswara Rao Sri	7.85
2013-15	CBIT	Studies on Reconfigurable Microstrip Antennas for Cognitive radio	<b>Chief Coordinator:</b> Dr.N.V.Koteswara Rao	0.40

#### 13. Research facility / centre with

- state recognition
- national recognition
- international recognition

Yes, the department has been recognized as Research Centre by Osmania University

#### 14. Publications:

	2011-12	2012-13	2013-14	2014-15	2015-16	2011-16
<b>Total Publications in the year</b>	20	18	24	54	52	168
<b>Publications per Faculty</b>	0.714	0.5625	0.7272	1.5428	1.2682	0.9940
<b>Publications in peer reviewed journals</b>	04	09	12	15	19	59



<b>Number of publications listed in International database</b>	04	09	12	15	19	59
<b>Monographs</b>	Nil	Nil	Nil	Nil	Nil	Nil
<b>Chapter in books</b>	Nil	Nil	Nil	Nil	Nil	Nil
<b>Books edited</b>	Nil	Nil	Nil	Nil	Nil	Nil
<b>Books with ISBN / ISSN</b>	Nil	Nil	Nil	Nil	Nil	Nil
<b>Citation Index (provide range)</b>	Nil	Nil	Nil	Nil	Nil	Nil
<b>SNIP (provide range)</b>	Nil	Nil	1.137 to 2.373	0.668	Nil	0.668 to 2.373
<b>SJR (provide range)</b>	Nil	Nil	0.624 to 1.498	0.213	Nil	0.213 to 1.498
<b>Impact factor (provide range)</b>	0.438 to 0.8500	0.413 to 3.80	0.342 to 6.209	0.715 to 6.577	0.982 to 3.36	0.342 to 6.577
<b>h- Index (provide range)</b>	Nil	Nil	26 to 65	12	10 to 19	10 to 65

#### **International Journals published by ECE Faculty (2015-2016)**

1. Y.Srinivas and N V Koteswara Rao, "Yagi Uda Shaped Dual Reconfigurable Antenna", (accepted for publication), ICTACT Journal on Communication Technology (IJCT), April 2016.
2. Supraja Reddy Ammana and Sarma D Achanta, "Estimation of Overbound on Ionospheric Spatial Decorrelation over Low Latitude Region for GBAS", accepted for publication in IET Radar Sonar and Navigation, March 2016 UK (Impact factor: 1.135).
3. K.S.R.S.Jyothsna & T.Aravinda babu, "Intereference mitigation using E-Comp in Multi layered network of LTE" in International Journal of Electrical and Electronics (IJEET), Volume 08, Issue 02, Jan-June 2016, ISSN 2312-2055.
4. N. Jagan Mohan Reddy, "A low power, eco –friendly multipurpose thermoelectric refrigerator", Accepted in Frontiers in Energy, Vol. 10, pp. 79-87, March 2016, ISSN (Print): 2095-1701, ISSN (Online): 2095-1698.
5. K.S.R.S.Jyothsna & T.Aravinda babu, "Enhanced Comp technique for intereference cancellation in HetNets of LTE", International Journal of Scientific & Engineering Research, volume 7, Issue-2, February – 2016, ISSN- 2229-5518.



6. K.S.R.S.Jyothisna & T.Aravinda babu, “Performance analysis of clipped STBC coded MIMO OFDM System” in International Journal of Electronics and communication Engineering & Technology (IJECET), Volume 7, Issue 01, Jan-Feb 2016, ISSN – 0976-6472.
7. M. Ramana Reddy, N.S Murthy sarma and P.Chandrasekhar, “WIMAX Low power, Low noise Amplifiers Design and Analysis for RF receiver front end using 90nm CMOS Technology used for Applications”, International Journal of VLSI design & Communication Systems (VLSICS) e-ISSN:0976-1357, p-ISSN-0976-1527, Vol.7, No.1, February 2016,
8. D.M.K.Chaitanya and N.V.Koteswara Rao , "Design Of Compact Monopole Ultra Wide Band Antenna Structure For Cognitive Radio Applications ", International Journal of Industrial Electronics and Electrical Engineering, ISSN: 2347-6982 Volume-4, Issue-2, pp7-11, February-2016.
9. A.Vani, “Review of Basic Secure Routing Protocols for MANETs.” International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 4 Issue: 1 January 2016, pp.33-35 ISSN: 2321-8169
10. Deepa.B, Roopa Bammidi, “Circularly Polarized U Slot Microstrip Patch Antenna”, International Journal of Innovative Technology and Research (IJITR), issue:01, Vol. 04, ISSN: 2320-5547, January 2016.
11. Satya Srinivas Vemuri, A.D. Sarma and Hema K Achanta, “Modelling of Ionospheric Time Delay Using Anisotropic IDW with Jackknife Technique” , IEEE Transactions on Geosciences and Remote Sensing(USA) Vol 54, No. 1, January 2016. DOI: 10.1109/TGRS.2015.2461017.
12. Deepak. Chenumalla, Venkat Kishore. Garimella and Amarendra. Gangavarapu, “Modeling and simulation of synchro & synchro-to-digital converter for electrical motor drives”, IET Science, Measurement & Technology, vol.10, issue 1, pp. 58-68, January 2016.
13. T.R. Vijayalakshmi, P. Narahari sastry, Rajinikanth, “Hybrid Approach for Telugu Handwritten Character Recognition using k-NN and SVM Classifiers,” International Review on Computers and Software, vol.10, no.9, December 2015, pp 923-929.
14. P. Narahari sastry, T.R. Vijayalakshmi, N.V.Koteswara Rao, R. Krishnan, “Analysis Of Telugu Palm Leaf Characters Using Multilevel Recognition Approach,” Journal of Engineering and applied Sciences, Vol 10, No. 15, ARPJ, November 2015, pp 9258- 9264.
15. Kasiprasad Mannepalli, Panyam Narahari Sastry & Maloji Suman, “MFCC-GMM based accent recognition system for Telugu speech signals,” International Journal of Speech Technology, November 2015 ISSN 1381-2416, 2015, DOI 10.1007/s10772- 015-9328-y.
16. M.Kasi Prasad , P. Narahari sastry, V. Rajesh, "Accent Detection of Telugu Speech using Supra-Segmental Features," Journal of Soft



- Computing, Vol.10, No.5, October 2015, pp.287-292.
17. Ch.Rajakumari, K.V.Telesh Reddy, "Design and Implementation of Security Management Using Haar Classifier with Call Alert and Live Video Streaming", International Journal of Engineering Research in Electronics and Communication Engineering, Vol. 1, Issue 7 August 2015, pp.38-41, ISSN: 2394-2320.
  18. M. Rajendra Prasad, J. Pooja and D. Krishna Reddy, "Development of Optimizations Techniques on ARM based Embedded Systems for Telecom Application", Internacional Research Journal of Engineering and Technology (IRJET), issue: 04, Vol. 02, e-ISSN: 2395-0056, p-ISSN: 2395-0072, July-2015.

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20. A.Vani, "A Study of Security Flaws and Attacks on AODV Routing Protocol". International Journal of Innovative Research and Communication Engineering. Vol. 3, Issue 6, June 2015 pp.5276-5280. ISSN (Online): 2320-9801.
21. Shyam Sunder M and Subba Rao K, " Cyclo Stationary Analysis of Polytime Coded Signal for LPI Radars", Int. Journ. of Research in Engineering & Technology, Vol. 4, Issue 6, June 2015.
22. A. Vani, D.Madhu babu "Design and implementation of advanced multilevel priority packet scheduling scheme". International Journal of Technical Research and Applications e-ISSN: 2320-8163. Volume 3, Issue 1, Jan-Feb 2015, PP. 18-22
23. Y. Srinivas and N V Koteswara Rao "Fractal Reconfigurable Multiband Communicating Antenna for Cognitive Radio"IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834,p- ISSN: 2278- 8735.Volume 10, Issue 1, Ver. III (Jan - Feb. 2015), PP 49-56 www.iosrjournals.org
24. Srilakshmi.A , N.V.Koteswara Rao, D.Sreenivasa Rao, " Multiple frequency Polyhedron Ring Slot Microstrip Antenna", International Journal of Research in signal Processing , computing and communications- system design, ISSN 2395-3187, volume 1, issue 1, Jan 2015, pg(24-26).
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26. N.Sweta, P.Narahari Sastry, Y.Rajasree Rao, "Spectrum Sensing



- Analysis using PSD based entropy detection of DVB-T signal", Journal of Engineering and applied Sciences, Vol 9, No.12, ARPJN, December 2014, pp 2854 -2857.
27. G V Pradeep Kumar, D Krishna Reddy, "A machine learning framework of neural network combined with PLS regression and artificial immune system for intrusion detection" International Journal of Advanced Research in Computer and Communication Engineering Vol. 3, Issue 12, December 2014, ISSN (Online) : 2278- 1021 ISSN (Print) : 2319-5940
  28. N. Alivelu Manga, M. Madhavi Latha, " Multiple Word Length Optimization based algorithm and architecture for low power QPSK base band receiver", International Journal of Current Engineering and Technology, Vol.4, No.6 (Dec 2014) E-ISSN 2277 – 4106, P-ISSN 2347 – 5161
  29. A.Sai Kumar Goud,N.V.Koteswara Rao , and Others , "VHDL Implementation of Optimized Cascaded Integrator Comb (CIC) Filters for Ultra High Speed Wideband Rate Conversion" IJSETR , ISSN 2319-8885 Vol.03, Issue 25 Septemeber-2014, pp:5002-5008
  30. A.Sai Kumar Goud ,N V Koteswara Rao, and Others , "VHDL Implementation of All Digital OFDM Modulator and Demodulator for FPGA based Applications" IJSETR , ISSN 2319-8885 Vol.03, Issue 25 Septemeber-2014, pp:4996-5001.
  31. A.Vani, G.John Israel "Improved Multi-hop Pro-active Hand-off for Cognitive Radio Network", International Journal on Recent and Innovation Trends in Computing and Communication, Volume: 2 Issue: 8, pp 2466 – 2469, August 2014. e-ISSN:2321-8169,
  32. N. Alivelu Manga, M. Madhavi Latha, "Low Power Blind Adaptive Equalizer with Word Length Optimization Algorithm", International Journal of Computer Applications (IJCA) Volume 100 - Number 17, pp. 55-62, August 2014.
  33. N. Alivelu Manga, M. Madhavi Latha, " Multiple Word Length based low power digital base band receiver", IOSR Journal of VLSI and Signal Processing (IOSR- JVSP) Volume 4, Issue 4, Ver. III (Jul-Aug. 2014), pp 24-30 e-ISSN: 2319 – 4200, p- ISSN No. : 2319 – 4197
  34. Deepak. Ch, G. Venkat Kishore, Rajesh Vadarevu and G. Amarendra, "A New Approach for Synchro Shaft Position Measurement Using Pulse Width Modulation", International Journal of Instrumentation Technology, Inderscience, vol.1, no.3, pp. 241-257, July 2014.

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35. P.Naveen Kumar, A.D.Sarma and A.Supraja Reddy "Modelling of Ionospheric Time Delay of GPS signals using Taylor Series Expansion



- for GPS Aided Geo Augmented Navigation Applications”, IET Radar Sonar and Navigation, Vol.8(9),pp.1081-1090, May 2014 (Impact factor: 1.135).
36. M. Ramana Reddy, N.S Murthy sarma and P.Chandrasekhar, “A 2.4 GHz narrow band LNA CMOS LNA input matching using resistive feedback topology in .13  $\mu\text{m}$  technology”, IJRET journal, Vol 3 .Issue 1, March -2014.
  37. Dr. A V Narasimha Rao, “Improvement of sensing Capability in Femto-cells using NLM” International Research Journal of sustainable Science and Engineering, Vo.-2, Num-2, ISSN 2347-6176, Feb.2014.
  38. V.Satya Srinivas, A.D.Sarma, A.Supraja Reddy and D.Krishna Reddy, “Investigation of the effect of Ionospheric Gradients on GPS Signals in the Context of LAAS”, Progress In Electromagnetics Research B, Vol. 57, Pp.191-205, January 2014 (Impact factor: 1.229).
  39. M. Ramana Reddy, N.S Murthy sarma and P.Chandrasekhar, “A Novel CMOS Model Design for 2.4 GHz narrow band LNA input matching using inductive degenerated topology”, IOSR journal of VLSI and signal processing ,Vol 4.Issue 1, Jan -2014.
  40. Rajendra Prasad M., J. Sarat Chandra and D. Krishna Reddy, “Design Methodology for IP secured tunnel Based Embedded Platform for AAA Server”, International Journal of Mobil Network communications and Telematics (IJMNCT) Vol.3, No.6, pp. 49-60, December 2013 (DOI:10.5121/ijmnet.2013.3605). Impact factor 2.1, ISSN: 1839-5678.
  41. N. Jagan Mohan Reddy and G. Venkareshwarlu, “Wireless electronic display board using GSM Technology”, International Journal of Electrical, Electronics and Data Communication (IJEEDC), Vol.1, Issue 10, pp. 50-54, Dec. 2013, ISSN(Print): 2320- 2084, ISSN (online): 2321-2950.
  42. K.C.T. Swamy, A.D. Sarma, V. Satya Srinivas, P. Naveen Kumar and PVD. Somasekhar Rao, “Accuracy Evaluation of Estimated Ionospheric Delay of GPS Signals Based on Klobuchar and IRI-2007 Models in Low Latitude Region”, IEEE Geoscience and Remote Sensing Letters (USA), Volume:10, Issue:6, Nov. 2013, DOI: 10.1109/LGRS.2013.2262035, ISSN: 1545-598X.
  43. V. Satya Srinivas, A.D. Sarma, K.C.T. Swamy, K. Satyanarayana. “Performance evaluation of IRI-2007 at equatorial latitudes and its Matlab version for GNSS applications”, Advances in Space Research, November 2013 (USA), DOI:10.1016/j.asr.2012.12.002, ISSN: 02731177.
  44. AK Singh and K. Subba Rao, “ Implementation of Interpolation Algorithm in FPGA for Fine Frequency Accuracy” Int. J. of innovative research in Science and Engineering and Technology, Vol.2, Issue 11, pp. 6509-6515, November 2013.
  45. V. Satya Srinivas, Suneetha E, D. Krishna Reddy, K. Satyanarayana





and A.D. Sarma “Performance Evaluations of Fast Satellite Selection Techniques for GNSS”, 29th National Convention of Electronics and Telecommunication Engineers and National Seminar on “Emerging Trends in Electronics and Telecommunication Engineering”, The Institute of Engineers (India), AP state centre, pp. 47-52, 29-30 October, 2013, Hyderabad.

46. K. Satyanarayana, A. D. Sarma, P. Naga Praveen, M. Malini & D. Krishna Reddy, “Mitigation of Cellular Phone Interferenc in ECG During Emergency Patient Transportation”, Cardiovascular Engineering and technology, a journal of the Biomedical Engineering Society, Springer, Volume 4, Number 2, July 2013, ISSN 1869-408X, DOI 10.1007/s13239-013-0159-1, Impact factor 1.2

#### **International Journals published by ECE Faculty (2012-2013)**

47. D.M.K.Chaitanya, N.V.Koteswara Rao, “Design of Digital RF Analyzer for High Dynamic Range Power Measurements (0.5-1 GHz)”, IJECT Vol. 4. Issue 2 April - June, 2013, ISSN 2229 – 4333
48. Mrs. K.Suman & Dr.E.Nagabhooshanam, “Performance of Heuristic Algorithms in minimizing BER for robust Turbo Codes”, in IJSER 4, Issue 5, May 2013, ISSN 2229-5518.
49. Ashwani Kumar, A. D. Sarma, Ezharul Ansari, and Kamatham Yedukondalu, “Improved Phase Center Estimation for GNSS Patch Antenna”, IEEE Transaction on Antennas and Propagation. , VOL. 61, NO. 4, April 2013, DOI: 10.1109/TAP.2012.2232896, ISSN:0018-926X.
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- Classification of Intra Pulse Modulated LPI Radar Signal Using Digital Receiver” Int. J. of Emerging Technology and Advanced Engineering, Vol. 2, Issue 9, Sep. 2012.
55. .K.Suman & Dr.E.Nagabhooshanam , "The A3D-TC: An Adaptive Approach for selecting Third Component parameters to generate Robust Turbo Codes”, in IJCA in 52-No.21, August 2012, ISSN 0975-8887 /DOI 10.5120/8337-1938.
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##### **2015-16**

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##### **2014-15**

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#### **Articles /Books/Chapters Published of ECE**

#### **Department**

#### **2015-2016**

1. D. Krishna Reddy and A.D. Sarma, “Project completion report-Data Processing techniques to Improve Real-time Performance of GNSS Systems”, (File No. SR/S4/AS:89/2012, dated 25<sup>th</sup> Sep., 2012) CBIT/DST/DPTRPGNSS/4, November2014.
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#### **2013-2014**

3. D. Krishna Reddy, V. Satya Srinivas and A.D. Sarma, “Data Processing techniques to Improve Real-time Performance of GNSS Systems”, CBIT/DST/DPTRPGNSS/03a, March2014.
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#### **2012-2013**

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## 15. Details of patents and income generated

### Patent Information: 01

PATENT APPLICATION PUBLICATION: The Patent Office Journal dated 15/01/2016 ISSUE NO. 03/2016 FRIDAY DATE: 15/01/2016, Page No.2268	
Application No	201641000080 A , INDIA
Date of filing of Application	01/01/2016
Title of the invention	SYSTEM AND METHOD FOR PALM LEAF CHARACTER RECOGNITION USING 2D HAAR WAVELET TRANSFORM AND 3D FEATURE
Name of Applicant and Address	Chaitanya Bharathi Institute of Technology Chaitanya Bharathi (PO), CBIT Campus, Gandipet, Kokapet Village, Rajendranagar Mandal, Ranga Reddy District, Hyderabad-500075, Telangana, India
Name(s) of Inventor(s)	Dr.Panyam Narahari Sastry Dr.N.V.Koteswara Rao Dr.Ramakrishnan Krishnan
<p>ABSTRACT: Exemplary embodiments of the present disclosure are directed towards a system and method for palm leaf character recognition using a 2-D wavelet Transform (Haar Transform), Autocorrelation and a 3D feature extraction. The system comprising a palm leaf with one or more characters, whereby the one or more characters comprising a one or more contours, whereby a plurality of pixel points selected from the one or more contours of the one or more characters on the palm leaf for which a measuring instrument configured to measure at least two co-ordinates for the one or more characters; a dial gauge plunger assembly configured to measure at least one coordinate (Z), whereby the co-ordinate enables to determine the depth of the one or more pixels of one or more characters on the palm leaf and to generate a plurality of character images for at least three projection planes (XY, YZ, ZX) of the one or more characters; a computing device configured for feature extraction of the plurality of character images using a mathematical formulation and recognize the one or more characters by computing a Euclidean distance between the plurality of Trained and Test characterimages.</p>	



### 16. Areas of consultancy and income generated: 01

Year/ Period	Funding agency	Project Title	Faculty Name	Amount (Rs. in Lakhs)
2013-15	RCI, DRDO, Hyderabad	Design and Development of DSP Processor Based Signal Processing Unit for Ring Laser Gyro	<b>PI:</b> Dr.K.Subba Rao <b>Co-I:</b> Dr.N.V.Koteswara Rao Sri E.Chandrasekhar	7.85

### 17. Faculty recharging strategies

Department of ECE organizes the following activities under recharging strategies:

- Guest lecturers with external experts for the benefit of students and staff.
- Organizes workshops for faculty and students.
- Organizes Faculty Development Programme for faculty members.
- Incentives for publishing technical papers.
- Encouraging the faculty doing Ph.D.
- Sponsoring for attending international conferences.
- Continuous support by the department for getting funds from external organizations such as MODROB Scheme and RPS Scheme.
- Funds from different funding agencies like DRDO, AICTE are also used for conducting workshops.

### 18. Student projects

#### a) Percentage of students who have done in-house projects including inter-departmental

S. No	Year	% of students who have done in-house projects
1.	2015-16	44
2.	2014-15	85
3.	2013-14	42
4.	2012-13	33
5.	2011-12	36
6.	2010-11	35

#### b) Percentage of students doing projects in collaboration with industries / institutes

S. No	Year	% of students who have placed for projects in organizations outside the institution
1.	2015-16	56
2.	2014-15	15





3.	2013-14	58
4.	2012-13	67
5.	2011-12	64
6.	2010-11	65

**19. Awards / recognitions received at the national and international level by Faculty, Doctoral / post doctoral fellows and students: 01**

Mr. Mohd Ziudiiin Jahangir has received best paper for IEEE international conference INDICON-2015 for his paper entitled “Design of new ternary SRAM cell (ZV-SRAM) based on innovative shifted Ternary Inverter during 17-20 December 2015.

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

a) International: Nil b) National: 38

S.No	Event	Dates	Supported by Professional Society / Chapter	Faculty Organizers
1.	Workshop on “PCB Design”	19 <sup>th</sup> Oct 2015	Prayog Labs Pvt Ltd	Sri. M.V.Kiran Kumar, Sri. G. Mallikharjuna Rao
2.	Faculty Development Program on “Recent trends and Advancements in VLSI for Embedded Applications”	15 <sup>th</sup> -27 <sup>th</sup> Jun 2015	AICTE	Dr. N. V. Koteswara Rao, Smt. N. Alivelu Manga, Sri. G. V. Pradeep Kumar Sri. P. Chandra Sekhar
3.	Workshop on “Embedded Processors and Applications”	28 <sup>th</sup> -30 <sup>th</sup> Apr 2015	Jointly organized by CBIT and RCI, DRDO	Dr. K. Subba Rao, Sri. G. Mallikharjuna Rao
4.	Workshop on “Data structures and Algorithms behind Auto Suggest/Auto Completion”	7 <sup>th</sup> Apr 2015	IEEE student branch (STB 31231)	Sri. G. Mallikharjuna Rao,
5.	National level Technical Symposium “Synapse” under SUDHEE – 2K15	10-11 <sup>th</sup> Mar 2015	--	Dr. A. Vani, Smt. K. Suman



6.	Workshop on “ Emerging Trends in Software Defined Radio and Cognitive Radio Networks”	13-14 <sup>th</sup> Feb 2015	--	Dr. P.Narahari Sastry, Sri. P. Satish
7.	Intensive course on “Electronic Intelligence (ELINT) Systems”	12- 13 <sup>th</sup> Dec 2014	DLRL	Dr. A.D. Sharma, Dr. D.Krishna Reddy, Sri P Sathish
8.	Workshop on “PCB Design”	31 <sup>st</sup> Oct & 1 <sup>st</sup> Nov 2014	Prayog Labs Pvt Ltd	Sri. M.V.Kiran Kumar
9.	Workshop on “PCB Design”	17 <sup>th</sup> – 18 <sup>th</sup> Oct 2014	Prayog Labs Pvt Ltd	Sri. M.V.Kiran Kumar, Smt. B. Neeraja
10.	Workshop on “VLSI Design using Cadence Tools	27- 29 <sup>th</sup> Mar 2014	TEQIP-II	Smt. N. Alivelu Manga, Sri. P. Chandra Sekhar
11.	National level Technical Symposium “Synapse- 14”	7 – 8 <sup>th</sup> Mar 2014	--	Smt. K.S.R.S. Jyothsna, Sri. T. Aravinda Babu
12.	Workshop on“PCB Design”	22 <sup>nd</sup> & 24 <sup>th</sup> Feb 2014	--	Sri. M.V.Kiran Kumar, Smt. B. Neeraja
13.	Intensive course on “Electronic Intelligence (ELINT) Systems”	12- 13 <sup>th</sup> Dec 2014	DLRL	Dr. A.D. Sharma, Dr. D.Krishna Reddy, Sri P Sathish
14.	Workshop on “PCB Design”	31 <sup>st</sup> Oct & 1 <sup>st</sup> Nov 2014	Prayog Labs Pvt Ltd	Sri. M.V.Kiran Kumar
15.	Workshop on “PCB Design”	17 <sup>th</sup> – 18 <sup>th</sup> Oct 2014	Prayog Labs Pvt Ltd	Sri. M.V.Kiran Kumar, Smt. B. Neeraja
16.	Workshop on “VLSI Design using Cadence Tools	27- 29 <sup>th</sup> Mar 2014	TEQIP-II	Smt. N. Alivelu Manga, Sri. P. Chandra Sekhar
17.	National level Technical Symposium “Synapse- 14”	7 – 8 <sup>th</sup> Mar 2014	--	Smt. K.S.R.S. Jyothsna, Sri. T. Aravinda Babu



18.	Workshop on "PCB Design"	22 <sup>nd</sup> & 24 <sup>th</sup> Feb 2014	--	Sri. M.V.Kiran Kumar, Smt. B. Neeraja
19.	Workshop on "Speech Processing and its Applications in Engineering"	23 <sup>rd</sup> - 24 <sup>th</sup> Aug 2013	TEQIP-II	Dr. P.Narahari Sastry, Sri.P.Sathish
20.	National level Technical Symposium "Synapse- 13"	19 <sup>th</sup> - 20 <sup>th</sup> Mar 2013	--	Sri. M.V. Nagabhooshanam, Sri. M. Ramana Reddy
21.	Workshop on "Mathematical Methods for Research in Image Processing & Engineering Applications"	5 <sup>th</sup> - 6 <sup>th</sup> Mar 2013	TEQIP-II	Dr. P.Narahari Sastry, Sri. P.Sathish
22.	Workshop on "Embedded Systems & its Applications"	28 <sup>th</sup> Feb & 1 <sup>st</sup> Mar 2013	IEEE Student Branch (STB- 31231), ISTE Student Branch (IM- 288) and TEQIP-II	Sri. G. Mallikharjuna Rao, Sri. P.Sathish
23.	Workshop on "DSP Processors & Applications"	16 <sup>th</sup> - 18 <sup>th</sup> Oct 2012	TEQIP-II	Dr. K.Subba Rao, Sri. T.Aravinda Babu
24.	National Congress: Communications and Computer Aided Electronic Systems (CCAES-2012)	20 <sup>th</sup> & 21 <sup>st</sup> April 2012	Institution and in association with IEEE, ISTE and IETE chapters	Dr. D. Krishna Reddy, Dr. A.V. Narasimha Rao (Dept. OF ECE)
25.	VLSI Design	16 <sup>th</sup> & 17 <sup>th</sup> Mar 2012	Institution and in association with TEQIP and ISTE chapter	Smt. N. Alivelu Manga, Smt. K.Usha Sri. A.Krishna Kumar (Dept. OF ECE)
26.	Applications of Digital Image Processing	17 <sup>th</sup> & 18 <sup>th</sup> Feb 2012	Institution and in association with TEQIP and ISTE	Dr. P. Narahari Sastry (Dept. OF ECE)
27.	Microprocessors & Microcontrollers	4 <sup>th</sup> & 5 <sup>th</sup> Jan 2012	Institution and in association with TEQIP	Sri.K.Sudershan Reddy, Sri.P.Sathish  (Dept. OF ECE)
28.	Synapse' 11	22 <sup>nd</sup> - 23 <sup>rd</sup> Mar 2011	Institution	Dr.A.V.Narashima Rao, Sri.A.Krishna kumar (Dept. OF ECE)



29.	Basics of GPS and its applications	23 <sup>rd</sup> – 24 <sup>th</sup> Dec 2010	Institution	Dr. D.Krishna Reddy  (Dept. OF ECE)
30.	Image Processing	10 <sup>th</sup> Dec 2010	Institution	Sri. P.Narahari Sastry (Dept. OF ECE)
31.	MATLAB	3 <sup>rd</sup> Nov 2010	Institution	Sri T.S.N.Murthy (Dept. OF ECE)
32.	Technical Quiz	29 <sup>th</sup> Oct 2010	Institution	Dr. A.V.Narashima Rao (Dept. OF ECE)
33.	Lab VIEW	20 <sup>th</sup> Oct 2010	Institution	Dr.A.V.Narashima Rao (Dept. OF ECE)
34.	HAM Radio (NIAR)	11 <sup>th</sup> Oct 2010	Institution	Dr.A.V.Narashima Rao (Dept. OF ECE)
35.	ISRO tour	19 <sup>th</sup> & 20 <sup>th</sup> Aug 2010	Institution	Sri T.S.N.Murthy (Dept. OF ECE)
36.	MATLAB in Engineering and Science	23 <sup>rd</sup> & 24 <sup>th</sup> April 2010	Institution	Dr. N.V.Koteswara Rao (Dept. OF ECE)
37.	Synapse' 10	8 <sup>th</sup> & 9 <sup>th</sup> April 2010	Institution	Dr. D.Krishna Reddy, Sri T.S.N.Murthy (Dept. OF ECE)
38.	Robotrix	2 <sup>nd</sup> March 2010	Institution	Sri T.S.N.Murthy (Dept. OF ECE)

### 21. Student profile course-wise:

#### *Electronic Engineering-I & II for EEE 2010-11*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	71	68	37	28	95.77
Electronic Engineering-II	70	67	37	28	95.71
Electronic Engineering-I Lab	65	65	37	28	100
Electronic Engineering-II Lab	67	65	37	28	97.01

\*M = Male \*F = Female

#### *Electronic Engineering-I & II for EEE 2011-12*



Name of the Course/Programme	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	77	75	47	26	97.4
Electronic Engineering-II	76	70	47	25	92.1
Electronic Engineering-I Lab	73	73	47	26	100
Electronic Engineering-II Lab	74	73	47	25	98.6

\*M = Male \*F = Female

*Electronic Engineering-I & II for EEE 2012-13*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	76	73	45	27	96.05
Electronic Engineering-II	78	72	45	27	92.3
Electronic Engineering-I Lab	73	72	45	27	98.6
Electronic Engineering-II Lab	73	73	45	27	100

\*M = Male \*F = Female

*Electronic Engineering-I & II for EEE 2013-14*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	85	78	47	28	91.76
Electronic Engineering-II	79	75	47	28	94.93
Electronic Engineering-I Lab	75	75	47	28	100
Electronic Engineering-II Lab	76	75	47	28	98.68

\*M = Male \*F = Female

*Electronic Engineering-I & II for EEE 2014-15*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	137	131	88	49	95.6
Electronic Engineering-II	137	137	88	49	100



Electronic Engineering-I Lab	137	136	88	49	99.2
Electronic Engineering-II Lab	137	135	88	49	98.5

\*M = Male \*F = Female

*Electronic Engineering-I & II for EEE 2015-16*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Electronic Engineering-I	147	139	100	47	94.5
Electronic Engineering-I Lab	147	139	100	47	94.5

\*M = Male \*F = Female

*Basic Electronics for MED 2010-11*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	73	69	53	16	94.5
Basic Electronics Lab	69	69	53	16	100

\*M = Male \*F = Female

*Basic Electronics for MED 2011-12*

Name of the Course/Programme	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	91	71	52	15	78.02
Basic Electronics Lab	70	70	52	15	100

\*M = Male \*F = Female

*Basic Electronics for MED 2012-13*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	90	77	58	19	85.5
Basic Electronics Lab	77	77	58	19	100

\*M = Male \*F = Female



*Basic Electronics for MED 2013-14*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	78	74	51	23	94.87
Basic Electronics Lab	78	78	51	23	100

\*M = Male \*F = Female

*Basic Electronics for MED 2014-15*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	142	129	105	37	90.8
Basic Electronics Lab	142	140	105	37	98.5

\*M = Male \*F = Female

*Basic Electronics for PE 2010-11*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	71	56	42	22	78.87
Basic Electronics Lab	64	64	42	22	100

\*M = Male \*F = Female

*Basic Electronics for PE 2011-12*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	86	73	55	17	84.88
Basic Electronics Lab	77	72	55	17	93.5

\*M = Male \*F = Female



*Basic Electronics for PE 2012-13*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	86	80	65	15	93.02
Basic Electronics Lab	81	80	65	15	98.76

\*M = Male \*F = Female

*Basic Electronics for PE 2013-14*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	78	71	52	16	91.02
Basic Electronics Lab	78	77	52	16	98.71

\*M = Male \*F = Female

*Basic Electronics for PE 2014-15*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	68	56	52	16	82.3
Basic Electronics Lab	68	67	52	16	98.5

\*M = Male \*F = Female

*Basic Electronics for CSE 2010-11*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	14	13	75	56	91.0
Basic Electronics Lab	5	2			3
Basic Electronics Lab	13	13	75	56	97.8
	6	3			

\*M = Male \*F = Female





*Basic Electronics for CSE 2011-12*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	160	153	84	63	95.625
Basic Electronics Lab	155	153	84	63	98.71

\*M = Male \*F = Female

*Basic Electronics for CSE 2012-13*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	155	147	77	68	94.84
Basic Electronics Lab	145	145	77	68	100

\*M = Male \*F = Female

*Basic Electronics for CSE 2013-14*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	159	152	83	67	95.6
Basic Electronics Lab	154	152	83	67	98.7

\*M = Male \*F = Female

*Basic Electronics for CSE 2014-15*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	225	207	132	93	92.0
Basic Electronics Lab	225	222	132	93	98.6

\*M = Male \*F = Female

*Basic Electronics for CSE 2015-16*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	



Basic Electronics	227	194	133	88	85.4
Basic Electronics Lab	222	202	133	88	90.9

\*M = Male \*F = Female

*Basic Electronics for IT 2013-14*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	75	72	34	38	96.0
Basic Electronics Lab	75	74	34	38	98.6

\*M = Male \*F = Female

*Basic Electronics for IT 2014-15*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	73	64	35	38	87.6
Basic Electronics Lab	73	70	35	38	95.8

\*M = Male \*F = Female

*Basic Electronics for IT 2015-16*

Name of the Course/Programme (refer question no.4)	Applications Received	Selected	Enrolled		Pass Percentage
			*M	*F	
Basic Electronics	80	72	43	33	90.0
Basic Electronics Lab	76	75	43	33	98.6

\*M = Male \*F = Female

## 22. Diversity of Students

Year	Name of the Course	% of Students from same State	% of Students from other States	% of Students from other Countries
2015	B.E (ECE)	86.84	-	13.16
2014	B.E (ECE)	87.78	-	12.22
2013	B.E (ECE)	100	-	0
2012	B.E (ECE)	99.44	-	0.56
2011	B.E (ECE)	92.30	-	7.7
2010	B.E (ECE)	-	-	-



**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

Year	NET	SLET	GATE	GRE	CAT	Civil services
2015-16	-	-	22	25	5	-
2014-15	-	-	1	-	-	-
2013-14	-	-	15	-	-	-
2012-13	-	-	10	-	-	-
2011-12	-	-	2	7	-	-
2010-11	-	-	4	2	-	-

**24. Student progression:**

Student progression	Against%enrolled	2015-16	2014-15	2013-14	2012-13	2011-12	2010-11
UG to PG	-	>12%	>8%	>14%	>14%	>7%	>8%
PG to M.Phil.	-	-	-	-	-	-	-
PG to Ph.D.	-	2%	1%	-	-	2%	-
Ph.D. to Post-Doctoral	-	-	-	-	-	-	-
<b>Employed</b>							
- Campus selection	-	84.2%	96.4%	83%	84%	95%	91%
- Otherthan campus recruitment	-						
Entrepreneurship/Self-employment	-	-	-	-	-	-	-

**25. Diversity of Staff**

Percentage of faculty who are graduates	2015-16	2014-15	2013-14	2012-13	2011-12
of the same parent university	23.91	30.00	31.58	27.03	21.62
from other universities within the State	54.35	52.50	52.63	56.75	64.87
from other universities from other States	21.74	17.50	15.79	16.22	13.51



**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

	2015-16	2014-15	2013-14	2012-13	2011-12	2010-11
Number of faculty awarded Ph.D	Nil	Nil	Nil	01	Nil	02

**27. Present details about infrastructural facilities**

a) Library

**Department Library Information**

1. Number of books : 173
2. Number of accepted project reports (UG/PG) by programme passouts

Year	UG		PG	
	E1	E2	CE	VLSI & ESD
2015	60	60	16	16
2014	60	60	19	13
2013	60	60	17	-

Reports of previous years are also available.

3. Number of Journals : All Journals are accessed from IEEE explore at anywhere with in the college
4. Number of Video cassettes : 70
5. Number of CDs : 38
6. PCs : 1
7. Printers : 1
8. Arrangement is made to accommodate a maximum of 20 persons.
  - a) Internet facilities for Staff & Students : 40 Mbps Leased Line
  - b) Total number of class rooms : 11
  - c) Class rooms with ICT facility

**Facilities and Technical Support**



Description of Class rooms, faculty rooms, seminar and conference halls:  
(Entries in the following table are sampler entries)

Room Description	Usage	Shared/ Exclusive	Capacity	Rooms Equipped with
L301(Class Room Number)	2/4 B.E. ECE 1(Class Room/Tutorial Room)	Exclusive	90	Green Board, OHP
L302(Class Room Number)	2/4 B.E.ECE 2(Class Room/Tutorial Room)	Exclusive	90	Green Board, OHP
L303(Class Room Number)	3/4 B.E.ECE 1(Class Room/Tutorial Room)	Exclusive	90	White Board, OHP
L304(Library/Staff Cabin)	4cabinsand Department Library	Exclusive	---	Book Racks
L305(Class Room Number)	3/4 B.E.ECE 2(Class Room/Tutorial Room)	Exclusive	90	White Board, OHP
L306(Class Room Number)	4/4 B.E.ECE 1(Class Room/Tutorial Room)	Exclusive	90	White Board, OHP LCD Projector
Room Description	Usage	Shared/ Exclusive	Capacity	Rooms Equipped with
L307(Class Room Number)	Class Room for 4 <sup>th</sup> year Elective	Exclusive	90	White Board, OHP
L308(Class Room Number)	4/4 B.E.ECE 2(Class Room/Tutorial Room)	Exclusive	90	White Board, OHP LCD Projector
L309(Seminar Hall)	For the Department Students/Staff	Exclusive	75	White Board ,OHP , LCD Projector,PA System
M004(Seminar Hall)	ME seminars Workshops , etc.,	Shared	150	White Board ,OHP , LCD Projector,PA System
N-Block e-Class Room	Guest Lectures/ e-Lectures	Shared	90	Audio Visual aids, e- Board PA System etc.,



L208(Lab/Staff Cabin)	1 Cabin	Exclusive	1	Book Racks
L105(Meeting Room)	Staff Discussion Room/Dining Room	Exclusive	10	--
L101 (Faculty Room)	HOD Office	Exclusive	---	-----
L102 (Faculty Room)	6 Cabins	Exclusive	8	Racks & Senior faculty are provided with PC and Internet facility
L103 (Lab/Staff Cabin)	1 Cabin	Exclusive	2	Book Racks
L104 (Lab/Staff Cabin)	1 Cabin	Exclusive	2	PC with Internet facility, Book Racks
L106 (Lab/Staff Cabin)	1 Cabin	Exclusive	2	Book Racks
L107 (Lab/Staff Cabin)	1 Cabin	Exclusive	1	PC with Internet facility, Book Racks
L108 (Lab/Staff Cabin)	1 Cabin	Exclusive	2	BookRacks
L109 (Lab/Staff Cabin)	1 Cabin	Exclusive	2	Book Racks
L201 (Lab/Staff Cabin)	1 Cabin	Exclusive	1	PC with Internet facility, Book Racks
L202				



(Lab/Staff Cabin)	1 Cabin	Exclusive	2	Book Racks
L203 Lab/Staff Cabin)	1 Cabin	Exclusive	1	PC with Internet facility, Book Racks
L204 (Lab/Staff Cabin)	1 Cabin	Exclusive	1	Book Racks

**Enough rooms for lectures (core/electives), seminars, tutorials, etc for the program**

Assessment based on the information provided in the above table

- i. Sufficient number of Class rooms/Tutorial rooms are available.
- ii. Additional Class room is available for conducting Elective classes for the final year students.
- iii. One Seminar Hall and one shared Seminar Hall is available.
- iv. One e-Class room is available.

**Teaching aids – black/white-board, multimedia projectors, etc**

Assessment based on the information provided in the above table

- i) Classrooms are equipped with teaching aids like Green/WhiteBoard, OHP, etc.,
- ii) LCD projectors are available in the final year classrooms.
- iii) E-Class room Facility is available.
- iv) Document Camera is available in the Department.

**Acoustics, class room size, conditions of chairs/benches, air circulation, lighting, exits, ambiance, etc.,**

Assessment based on the information provided in the above table and the inspection thereof

- i. All Class rooms are with sufficient space, good condition of benches for a maximum capacity of 90 students equipped with dual desks.
- ii. Class rooms are very well ventilated for air circulation and equipped with sufficient number of tube lights & fans with good ambiance.
- iii. Class rooms have good acoustics, so that the lectures given by the faculty are clearly audible to all the students.



iv. There is no disturbance from other classrooms.

Students' Laboratories

**Adequate and well equipped laboratories and technical manpower**

S. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the important equipment	Weekly utilization status	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1.	SSP/HDL Lab (L-103)	24 1:1	PC's - 27, Printer, Scanner, DSP & FPGA kits. Matlab and Xilinx Softwares	9	Y.V.R.S. Satyavathi	Special Gr. Lab Assistant	L.E.C.E.
2.	Computer Centre (L-104)	20 1:1	PC's - 20, Printer, Vx works, Embedded System kits. LabVIEW, and Matlab Software	12	V.Yadagiri	Assistant Programmer	M.Tech.
3.	MP&MC Lab (L-106)	24 1:1	PC's - 29, Printer, Microprocessor (8086) and microcontrollers (8086) kits	9	V.Rajender Reddy	Lab Technician Gr-I	B.Tech.
4.	CCN Lab (L-107)	18 1:1	PC's - 21, Document Camera, Flacon make L trainer kits - 4, Bench mark LAN trainer-1, LAN trainer modules 1-set (3 units, Network simulator software licences-4.	Also UG & PG projects	N.Seshagiri Rao	Lab Technician Gr-II	I.T.I., B.A.
5.	Microwave	24	Microwave	9	V.Goverdhan	Special Gr.	I.T.I.





	Lab (L-108)	1:2/3	bench setup -10, Antenna Training system kit - 1, and Power meter with thermister mount.		Reddy	Lab Assistant	
6.	Communication Lab(L-109)	24 1:2/3	CRO's,Trainer kits, Function Generator and multimeters. Spectrum Analyser, 8-Race Oscilloscope s, DSO(100MHz)	9	K.Vijaybhasker	Lab Assistant	Diploma
7.	Integrated Circuits Lab (L-201)	24 1:2/3	PC's-2, ICTester, CRO's, Function Generator, RPS,Multimeters, Digital Trainer kits.	9	V.Sivaramaiah	Lab Assistant	B.Tech.
8.	Electronic Circuits (L-202)	24 1:2/3	CRO's, Function Generator, Multimeters, RPS, PC's-2, 1.5 -225MHz AM/FM generators.	9	A.V.S.V. Prasad	Special Gr. Lab Assistant	D.E.C.E.
9.	ED Lab (L-203)	24 1:2/3	PC's-2, CRO's, Function Generator, RPS, Multimeters, DMMC.	9	S.Chandra Reddy	Lab Technician Gr-I	D.E.C.E.
10.	Electronic Workshop (L-204)	26 1:2/3	CRO's-12, Function Generators- 6, RPS,Multimeters- 24, Trainerkits-10,LCR Qmeter-2.	9	E.Yadagiri	Lab Technician Gr-II	I.T.I.
11.	ES & VLSI Lab (L-208)	18 1:1	PC's, Cadence Tool, Xilinx tool, Mentorgraphics	1 Also UG & PG projects	M.Krishna	Special Gr. Lab TechnicianGr-III	D.E.C.E., B.Tech.



12.	Electronic Engineering (N-003)	24 1:2/3	PC-1, CRO's, Digital CRO's, Function Generator, RPS, 9 Multimeters, DMMC, Trainerkits.		D.S.U.M.B. Prasad	Lab Technician	Diploma
13.	Basic Electronics (N-004)	24 1:2/3	PC's-2, CRO's-8, Digital CRO's-2, Function Generators- 10, RPS-12, Trainerkits-12, multimeters- 14, Stabilizer, DRB, DCB, DIB	3	M.Vijayender Reddy	Lab Technician	D.E.C.E.

**Additional facilities created for improving the quality of learning  
Experience in laboratories**

S. No.	Facility Name	Details	Reason(s) for creating	Utilization	Areas in which students' are expected to	Relevance to
1.	Antenna Training System Kit.	Transmitter System, Receiver System, Tripod Stands -2, Different Antennas Like Yagi-Uda, Log-Periodic, Mono-pole, Dipole, etc.	To practice more number of experiments apart from experiments in the prescribed syllabus.	All 3/4 ECE students UG project works	Antennas, Electro Magnetic Fields, Communications	Yes Relevance to POs/PSOs
2.	IRNSS Multi frequency Receivers	IRNSS Antennas, Receiver, Data Logging System	PG Projects, Research Scholar Projects	PG, UG Projects	Navigation, Communication, Antennas and Signal Processing	Yes Relevance to POs/PSOs
3	LabVIEW (Software)	30 users	Beyond curriculum	UG/PG	Simulation	Yes Relevance



						to POs/PSOs
4	Wind river (Software) Vx-works	5 users	Beyond curriculum	UG/PG	Simulation	Yes  Relevance to POs/PSOs
5	IE3D  EM Simulator	One user from M/s Zeeland	Beyond curriculum	UG/PG	Simulation	Yes  Relevance to POs/PSOs

### **Laboratories: Maintenance and overall ambience**

Laboratories are well equipped and maintained, two /three students for an experimental setup are allotted. Preventive maintenances is carried out before the commencement of every semester. Size of the laboratories and ambience are good. All the labs are equipped with work benches. Blackboards/whiteboards are provided to give general instructions and explanation. Laboratory Manuals are available in the labs.

Labs are established as per the curriculum given by the University/Autonomous stipulations. Equipment of all the laboratories is being maintained in good condition for conducting laboratory courses. Equipment is available for conducting the experiments beyond the curriculum Facility for doing Mini projects and Final year student projects are available in the department.

### **Project laboratory**

The student projects of UG and PG are carried out in Computer Centre (Room No. L-104). This computer centre has 20 PC's with printing facility. It also has software's like Vx-works, Embedded kits, LabVIEW, and MATLAB, which help the students to simulate and design electronic circuits pertaining to their projects. This lab has uninterrupted power supply for the PC's, which helps the students to carry out their projects without break. To review the projects of UG and PG, this lab has a hand held projector for conducting seminars.

### **Safety measures in laboratories**

All the Laboratories are equipped with Fire Extinguishers.



**28. Number of students of the department getting financial assistance from College.**

*Scholarship students details of ECE Department*

S.No	Academic Year	Caste Wise Students						Total
		SC	ST	BC	EBC	PHC	MINORITY	
1	2010-11	31	15	92	47	1	-	186
2	2011-12	35	16	99	46	1	-	197
3	2012-13	46	21	122	62	2	17	270
4	2013-14	45	23	145	76	2	27	318
5	2014-15	49	25	153	96	3	22	348
6	2015-16	53	31	179	109	2	22	396

**List of candidate sanctioned Teaching Assistantship under TEQIP-II Project**

S. No	Name of the Student	Roll Number	Branch	Sanctioned in	
<b>2011-2013</b>					
1	G. Mahalakshmi	1601-11-744-011	ECE-CE	-	II Year
<b>2012-2014</b>					
2	Vanaparathi Priyani	1601-12-744-410	ECE-VLSI Design	I Year	II Year
3	L V Kartheek Pavan Kumar	1601-12-744-411	ECE-VLSI Design	I Year	II Year
<b>2013-2015</b>					
Nil					
<b>2014-2016</b>					
4	Salma Sultana	1404608	ECE-CE	I Year	II Year
5	Afroza Shireen	1404601	ECE	-	II Year
<b>2015-2017</b>					
6	Gupta Rohit	1504604	ECE	I Year	
7	Chandupatla Ashwini	1504608	ECE	I Year	



**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes

- Based on the demand for the Program.
- Considering Suggestions given by the stake holders.
- Discussion with the management, faculty, HOD and Principal
- Benchmarking the syllabus with other colleges/universities.
- Discussions during the Board of Studies meeting.
- Getting feedback from alumni who are working in industries.
- Discussions with industry experts to make the course more relevant.

**30. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes

The curriculum and the course content are designed and framed in discussion with the members of the Board of studies and same will be passed in the Board of studies meeting(BOS). Feedback from staff is obtained during departmental committee meeting. At the end of each semester feedback is collected from faculty members about the course content, Teaching learning process and course delivery methods. This helps the Department to improve the curriculum and teaching learning evaluation.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Feedback on the faculty handling the courses is obtained from the students concerned at the end of every semester. The teachers are evaluated against attributes related to teaching-learning process. Average score is converted in terms of percentage and is communicated to the teacher concerned. In case of lower scores, the faculty concerned is asked for explanation and suitable action is taken to make the teaching-learning process effective. Apart from this a faculty will have to submit the self appraisal for every year.

**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Alumni meet is conducted every year which also includes pioneer alumni. Valuable suggestions and feedback if any, are collected and they are being used for future improvement.

Feedback from employers is collected regularly about the placed students during their training programme by training and placement office. It serves as a tool to identify skill needs and skill gaps at



workplace. The valuable suggestions given are put forth in BOS and discussed. Essential points are incorporated.

**31. List the distinguished alumni of the department (maximum 10)**

<p>Nirmala Kandadi Ph.D (UG) Roll - 0201-406 Assistant Research Professor Electrical &amp; Computer Engineering Material Science Dept BOISE STATE UNIVERSITY 1020 S Manitou AVE BOISE ID 83706 Phone : 208-426-4807</p>	<p>J Bhavika Reddy B.E Electronic and communication Engineering (passed out 2008-12) Phone No: 9866983903 E mail Id : <a href="mailto:bhavikaj@gmail.com">bhavikaj@gmail.com</a> Address : 7-1-212/5, Shiv Bagh, Ameerpet, Hyderabad, Telangana - 500016 Position : Section Officer, Armed Forces Head Quarters, New Delhi</p>
<p>M. Jaivardhan (2009 – 2013 ) Present location Bangalore Batch – ECE 2 (2009-2013) Position – Embedded software developer @ Robert Bosch. Email id : <a href="mailto:Jaivardhan.mattapalli@gmail.com">Jaivardhan.mattapalli@gmail.com</a> Phone: + 91 - 9032091283</p>	<p>P.V. Yashwant Kumar (2007-2011) Present location : New Delhi Batch – ECE 2 (2007 – 2011) Position : Section Engineer at Indian railways Email id : yashwant.pvkumar @yahoo.com Phone: 9642347127</p>
<p>K.Ravali (2007 – 2011) Batch – ECE 1 Present location : Hyderabad Masters : University of Minnesota Email id : <a href="mailto:ravali.july6@gmail.com">ravali.july6@gmail.com</a> Phone: + 91 9052902255</p>	<p>Sushrutha Vignanam ( 2004- 2008) Batch – 2008 Present : 5701, S Mopac Expressway # 231, Austin , Tx – USA Company : INTEL Position : Component Design Engineer Contact: + 001 – 806 – 543-9378 Email id : <a href="mailto:sushruthav@gmail.com">sushruthav@gmail.com</a></p>
<p>Ravi Gulla palli BE 1994- 1997 Flat No 203 Gokulam apt 6<sup>th</sup> phase KBHB Colony Email id : <a href="mailto:raviocal@gmail.com">raviocal@gmail.com</a> Phone: 897819 0331 15 year of VLSI Lessing experience (AMD)</p>	<p>Ramu Konduri Academic year : 1994 - 1997 15 years of VLSI Design experience (AMD) Phone : 9441355359</p>
<p>Ch. Sreedevi Academic year 1997- 2001 out Position : scientist ‘D’ DRDO H.no 27/C , Bansilalpet,</p>	<p>Boyinapalli Kiran Academic year : 1998 - 2001 ECE (FDH) working for ERICSSON</p>



Near Bible house , Secunderbad 500003 Phone: 9989030079	H.No. 6-3 – 1099/ ABCD/ 104 Lake residency , Rajbhavan Road, hyd -82 Email id : <a href="mailto:kiranpally@gmail.com">kiranpally@gmail.com</a> Phone : 9701882333
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**32. Detailsonstudent enrichment programmes(special lectures/  
workshops/seminar) with external experts:  
Co-curricular Activities Organized (Guest Lectures) by ECE  
Department**

S.No	Title of the Lecture	Name of the Speaker	Organization	Date
1.	Solving Engineering Problems on Multi-core Workstations	Prof. Sudhakar M Reddy	University of Iowa, Iowa, USA	12-01-2015
2.	GUI using MATLAB	Dr. Y. Ravinder	Professor, PICT	10-02-2014
3.	'Mathematica', Versatile Software Tool	Ms. Sonali Desouza	Wolfram Research Inc.USA	14-02-2012
4.	Innovation and Creativity in Systems	Dr. V C V Pratap Reddy	Professor, Rochertir Institute of Technology	10-02-2012
5.	Demo on Mentor Graphics and Xilinx tools	Sri. Sharat Kanth	Application Engineer, COREL Technologies, Hyderabad	25-10-2011
6.	Wireless Embedded Systems Technology and Career Opportunity	Sri. Venkatesh	Vice Presiden, Redpine Signals, Hyderabad	16-08-2011
7.	Lab VIEW	Sri.Jaagadeesan	National Instruments, Bangalore	21-10-2010
8.	Robotics	Dr. G. Venkata Rao	AGM (Retd.), BHEL	20-03-2009
9.	Micro Satellite	Sri. Raghava Murthy	Project Director, ISRO, Bangalore	23-02-2009
10.	Antennas	Sri.Chakravarthy	Scientist-E, DLRL	30-01-2009

**33. List of Teaching methods adopted by the faculty for different programmes.**

a) **Teaching Methodologies:** We help our students, understand engineering concepts and go beyond the knowledge level to higher levels of thinking. We help them to apply, analyze and synthesize, to create new knowledge and solve new problems. So, too, as teachers, we need to recognize our challenge to go beyond knowledge about effective teaching. We need to



apply these strategies, analyze what works, and take action to modify or synthesize our learning's to help our students learn in a way that works for us as individuals and teams of teachers.

The learning community consists of both students and teachers. Students benefit from effective teaching and learning strategies inside and outside classroom. Helping students learn is our challenge as teachers. Identifying effective teaching strategies, therefore, is our challenge as we both assess the effectiveness of our current teaching style and consider innovative ways to improve our teaching to match our students' learning styles.

The mission of the institute is "To impart value based technical education and train students to attain self confidence, *"Swayam Tejaswin Bhava"*, and serve the society above self, through continuous improvement in effectiveness and efficiency of teaching learning and associated process". The faculty strives to meet the mission of the institute.

The faculty of the institute is used to adopt and follow the following strategies/methodologies where ever it is applicable in their respective theory/laboratory classes.

S. No	Strategy/ Methodology	Description	Remarks
1	PRACTICAL EXAMPLES	Connecting Theory with Applications	Students are exposed to the practical examples to reinforce theory in the classroom. The use of practical examples can help the student to connect engineering theory with practical applications for more effective teaching and learning. The introduction of practical examples does not imply an elimination of theory, but rather an enhancement of the theory taught in the classroom. It is important to simultaneously develop a theoretical and a practical base since neither is useful without the other.





2	CASE STUDIES	Bringing “Real-Life” Scenarios into the Classroom	An engineering case study is an account of an actual engineering activity, event, or problem containing some of the background and complexities actually encountered by a practicing engineer. Since cases are accounts of “real-life” engineering activity, they help the students to better relate theory to the “real-world”. Cases often involve concepts from other disciplines like marketing and management, concepts that a practicing engineer needs to know anyway. In addition, the case method promotes discussion in class and
3	GUIDED DESIGN PROJECTS	Introducing practical Design Experience in Classrooms	Guided design projects aim to bring practical design experience into the classroom. Often conducted over a period of a semester, the projects give students an opportunity to work in a team environment, apply theory learned in the classroom, and learn about industrial
4.	THE FLOWCHART TECHNIQUE	Organizing the Flow of Thoughts	The technique of flowcharting, as applied to a classroom scenario, is a tool for precisely and concisely representing the flow of information among various stages in the development of a theoretical concept or in the formulation or analysis of an engineering problem. Flowcharts are a tool to organize the flow of logic and thought in a classroom, much in the way that flowcharts help in presenting the flow of materials between various units of an industrial
5	LABS	Making Students Think Deeper	Laboratory classes can be broadly defined as classes where the students are encouraged to design their own experiments or devise their own experimental strategy, rather than required to follow a rigid set of experimental guidelines specified elsewhere as in a lab manual.



6	ORGANIZING TECHNICAL QUIZZES	Moving Students Away From Memorization	The technical quizzes are intended to stimulate students' creativity and to help students to think deeply about the material covered in lectures. In contrast, straightforward "Given this, calculate that" or "Plug and chug" type of quizzes merely encourage students to memorize equations and formulae.
7	ORGANIZING CONFERENCES AND WORKSHOPS	Encouraging Creativity	The students are encouraged to organize conferences and workshops. To bring out leadership, creativity qualities and organizing skills. Student experiences benefits of a multi-dimensional activities in organizing and in idea-generation exercises.
8	QUESTION-AND-ANSWER METHOD	Student Participation	The goal of the question-and-answer method is to draw students into active participation in teaching and learning processes. The technique also encourages students to move beyond memorization to higher levels of learning that require clarification, expansion, generalization, and inference. Often students are conditioned to simply sit in class, take notes and then study and learn the information on their own. With the question-and-answer methodology, the students can learn in real-time, as they are being taught, which helps them understand and integrate the material better.



9	SOFTWARE	Increasig Teaching Efficiency	Software tools are widely used today in the classroom and are proving to be very effective teaching aids. One of the benefits of software tools is that they offer a means for visualization of abstract concepts and ideas. If used properly software tools can improve teaching efficiency in many instances. As a teaching tool, computer software can provide a new way to link abstract concepts with tangible visualizations. Specialized computer software offers students the option of self-learning and can also be instrumental in motivating them to learn abstract engineering concepts.
10	CONCLUSION	Teaching Improvement : Monitoring of Progress	Teaching styles continue to evolve as the teacher strives to match the learning styles of the students. Sharing teaching strategies that have worked for others. Developing a variety of teaching strategies will help teacher and students build a learning community.
11	FEED-BACK	For further improvement	Taking feedback from the students helps to assess the teacher and teaching methodologies to improve or strengthen the teaching and learning process.
12	ICT	Use of Information and communications Technologies	ICT brings to the classroom: Sharing of learning resources and learning spaces, promotion of collaborative learning (group study) and it leads towards autonomous learning. The use of ICT in the classroom will change the role of the learner, enabling children to exert more choice over how they approach study, requiring less direction from teachers
13	INTERNSHIPS	Industry exposure during course work	During summer / winter breaks students are encouraged to be associated with an industry for about 2/4/6 weeks and the students are directed to submit a report to the concerned departments.



14	INNOVATIVE PROJECTS	As part of the curriculum	Students are encouraged to work on innovative projects by collaborating with other Departments / organizations. The financial assistance is also extended by the institute.
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All the teachers are encouraged to follow the above teaching methodologies to strengthen teaching learning process.

### **b) Guidelines for Attending Academic Duties by the Faculty**

1. Faculty has to maintain the class timings as per the scheduled time table strictly. Avoid availing leave whenever class work is there.
2. Lecture notes have to be verified/ checked by the Head at least twice in a semester. It is the responsibility of the concerned faculty to get it checked by the Head.
3. Every faculty has to maintain course file which consists of
  - i) Syllabuscopy
  - ii) Lessonplan
  - iii) Lecture notes / Transparency / Power pointpresentation
  - iv) Assignments
  - v) Previous University questionpapers
  - vi) Mid sessional question papers etc.,
4. Preparation of assignments on the course (subject) should be made unit wise and they have to be given to the students at the beginning of the unit lecturing.
5. At the end of the unit lecturing, the faculty has to revise/discuss the assignments /old question papers within the class.
6. Unit-wise Assignment test has to be conducted in the class and they have to be corrected immediately and the answer scripts must be shown to the students.
7. The Mid-term exam question papers have to be set at a standard level. After the Mid sessional-exam the faculty has to discuss the same within theclass.
8. Award of Mid-sessional marks have to be shown to the students within a week time after the Mid-sessional-examconducted.



9. While conducting the practical classes, the faculty has to take a lecture for all the students and should explain the full cycle of experiments.
10. The laboratory classes have to be conducted very seriously. The faculty has to go to experiment set up and should explain the concept and the procedure for conducting the experiment.
11. Correction of lab observations/records have to be done within the same class and the award of marks must be entered in the attendance registers on the same class.
12. Faculty has to prepare a question bank in the laboratory course and the question bank must be made available to the students.
13. The faculty has to instruct the students regarding the conducting of University practical exams.
14. The faculty has to set the question paper prior to the schedule of commencement of Mid-term examinations.
15. Adjustment of class is mandatory, whenever a faculty goes on any kind of leave.
16. Faculty has to attend invigilation duties as per the scheduled timings.
17. Adjustment of invigilation duties is also mandatory.
18. The faculty has to be made available themselves in the Department for the students whenever there is no classwork.
19. While preparing the lecture notes the faculty is advised to take utmost care in adopting the applications of the concepts and they are further advised to discuss the applications elaborately in the class.
20. The faculty has to adopt innovative methods in teaching the theory as well as laboratory classes.
21. The faculty are advised to attend workshops/orientation refresher courses for strengthening/upgrading the latest trends in the technologies.
22. The faculty has to attend the spot valuation duties in the OU without fail and evaluate the scripts as per rules govern by the university.
23. Faculty should involve themselves in the development activities.
24. Faculty are made in-charges for monitoring the classes regarding the class adjustments, consolidating the attendance and the sessional marks. In this regard, the faculty are hereby follow the instructions given by the Head.
25. The faculty are nominated as class in-charges for counseling the student of their respective classes assigned, regarding attendance /university marks / sessional marks.



26. The faculty are not supposed to discuss with unauthorized persons about confidential information students and confidential institution matters.
27. The faculty have to strive for professional growth through continuous study, research, attending conferences and active involvement in technical discussions.
28. Faculty have to remember the following while discharging his / her duties:
  - i) Entering a classroom unprepared is a moral crime and a definite obstruction to student learning.
  - ii) Exhibit the importance of time being punctual in all the activities.
  - iii) A non performing class is often the reflection of the non performance of the teacher.
29. After the results are declared by the university, the faculty have to analyze the results for the course they taught in the previous semester / year. The faculty has to submit a brief report regarding the results to the Head of the department.
30. The faculty have to engage themselves in the research activities actively.
31. The faculty are advised to put up proposal for obtaining research projects / grants from the agencies like AICTE, DST and UGC etc.,.
32. The faculty are to come forward for conducting Workshops/Symposium for the faculty and for the students.
33. Faculty are advised to plan at least one project each to guide at UG and PG level prior to the commencement of project schedule and the proposal may be displayed on the noticeboard.
34. The faculty who are assigned with general seminar/project seminar are hereby advised to evaluate the students performance on the day of seminars only. All the three/two faculty members are advised to evaluate the students seminars individually and consolidate at the end.
35. The laboratory incharges are advised to update the lab manuals periodically and propose the required equipment / consumables whenever it is necessary well in advance.
36. The Faculty need to choose the industry of their concern and maintain rapport for collaborative work and have exposure to understand their functions and choose to work during summer / winter vacation. Then start work on consultancy or research with the industry.



**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures that programme objectives are constantly met and learning outcomes monitored by conducting

- Adopting appropriate teaching methodologies
- Regular class tests and sessionals as per the schedule
- Viva voce practices
- Quizzes, wherever it is possible

**35. Participation of students and faculty in extension activities**

All the students and faculty are encouraged to participate in the extra and cocurricular activities. Also, students participate in the inter college and inter universities activities in the form of academic and sports events

**‘Transforming Schools’ Event**

**Date:** 19 August 2015

**Timings:** 10:30 TO 12:30 PM

**Venue:** KHANAPUR GOVERNMENT SCHOOL

**No of Participants:** 100 participants

**Branch Counsellor:** Sri. G. Mallikarjuna Rao

**Objective:** The main objective of the event was to interact with the students and hold competitions which will bring out the creative side of the students and help them showcase their skills.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

- Participation in Professional societies like, IEEE.
- Delivery of special lectures.
- Students are motivated to participate in competitions.
- Motivated to do internships at industries within and outside the state
- Motivating the teachers and students to publish papers in National/International Conferences and peer reviewed National/International journals.
- Motivating the students in preparing for competitive examinations.
- Students are encouraged to do the mini projects.
- Participation of students in Makers of India-CBIT



**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

AFFILIATIONS / ACCREDITATIONS / CERTIFICATIONS / PARTICIPATIONS	
Year	Description
1979	Affiliated to Osmania University
1998, 2004, 2008, 2013	NBA-Accreditation for UG program
2002	An ISO certified institution
2007	Associating with CEME, Osmania University
2010	Accredited by NAAC-UGC
2012	Recognition of the Department as a Research Center by Osmania University
2012	TEQIP-II Participating Institution
2013	UGC Autonomous Status
2016	PG NBA Accreditation

**38. SWOC analysis of the department and Future plans**

**SWOC: Department of ECE**

**I. STRENGTH**

- Good infrastructure in the department.
- Experienced faculty – in all domains of Electronics and Communication Engineering.
- Well trained technical staff.
- Adequate equipment to cater the needs of UG/PG students.
- Availability of wide range of softwares which are related to Electronics and Communication Engineering.
- Good computing facilities.
- Recognized Research Center by OU.





- Meritorious students with excellent placement for UG Students.
- Good Scopus index publication by the faculty.
- Support to other Engineering College faculty by conducting good number of workshops.
- R&D/Consultancy/projects from funding agencies (AICTE/DST/ Defense Labs).
- FDP'S /Seminar grants from funding Agencies.
- Patent filed.
- Active MOUs.

## **II. WEAKNESS**

- Industrial consultancy.
- Student quality at PG level and placement in core companies.
- Lack of in house accommodation for the faculty and staff.
- Limited facilities for faculty for Pursuing doctoral research and post doctoral research on deputations.
- Research activities confined to few individuals.

## **III. OPPORTUNITY**

- Scope to establish COE (Center of Excellence) in emerging fields with the collaboration of R&D organization and incubation centers.
- To strive for employability for the students in core areas.
- To encourage the faculty and to provide necessary facilities for pursuing demand driven research.
- Research collaboration with IIT, UOH, IIT etc.

## **IV. CHALLENGES**

- To compete with the institutions like IIIT, IIT and BITS.
- Adoption of quick changes in the technology into the curriculum.
- Retention of senior faculty and to attract faculty who have well research background.
- Financial constraints for procuring latest equipments/software



- Obtaining of R&D/consultancy Project worth of more than Rs.50.00 lakhs from founding agencies

### **39. Future Plans of the Department**

- Establishing of COE(s) (Center of Excellence) in emerging fields with the collaboration of R&D organization and incubation centers.
- Contributions to IRG through consultancy
- Striving for employability for the students in core areas.
- Provide facilities for pursuing demand driven research by the faculty and scholars.
- Establishing of strong Research collaborations with IIT, UOH, IIT etc.,
- Encouraging the faculty towards obtaining copyrights/patents.



## Evaluative Report of the Department

### 1. Name of the Department & its year of establishment

**Mechanical Engineering Department & 1979**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

BE (Mechanical Engg)  
BE (Production Engg),  
M.E (CAD/CAM)  
M.E (Thermal Engg)

### 3. Interdisciplinary courses and departments involved

In the 4 year BE Mechanical Engineering and BE Production Engineering courses offered by the Department, other Departments like Maths and Humanities, Physics, Chemistry, Civil Engineering, Electronics Engineering and Electrical Engineering Departments handle the respective courses and labs.

Section	Semester	Dept. involved	2015-16	2014-15	2013-14	2012-13	2011-12
BE 1/4 Mech & Prod	1 <sup>st</sup> sem	Maths & Humanities	English - I	English - I	English - I	1. English 2. Mathematics - I 3. Mathematics - II 4. Engineering Physics 5. Engineering Chemistry 6. Engineering Mechanics 7. Physics Lab	1. English 2. Mathematics - I 3. Mathematics - II 4. Engineering Physics 5. Engineering Chemistry 6. Engineering Mechanics
			Mathematics - I	Mathematics - I	Mathematics - I		
		Physics	Engineering Physics - I	Engineering Physics - I	Engineering Physics - I		
		Chemistry	Engineering Chemistry - I	Engineering Chemistry - I	Engineering Chemistry - I		
		Civil Engg	Engineering Mechanics - I	Engineering Mechanics - I	Engineering Mechanics - I		



2 <sup>nd</sup> sem	Maths & Humanities	English Language Laboratory – I	English Language Laboratory – I	English Language Laboratory – I	8.Chemistry Lab 9. English Language Lab	7.Physics Lab 8.Chemistry Lab 9. English Language Lab
	Physics	Engineering Physics Lab – I	Engineering Physics Lab – I	Engineering Physics Lab – I		
	Chemistry	Engineering Chemistry Lab – I	Engineering Chemistry Lab – I	Engineering Chemistry Lab – I		
	Maths & Humanities	English - II	English - II	English - II	English - II	
		Mathematics-II	Mathematics-II	Mathematics -II		
	Physics	Engineering Physics - II	Engineering Physics - II	Engineering Physics -II		
	Chemistry	Engineering Chemistry - II	Engineering Chemistry - II	Engineering Chemistry - II		
	Civil Engg	Engineering Mechanics – II	Engineering Mechanics – II	Engineering Mechanics – II		
	Maths & Humanities	English Language Laboratory –II	English Language Laboratory –II	English Language Laboratory – II		
	Physics	Engineering Physics Lab – II	Engineering Physics Lab – II	Engineering Physics Lab – II		
	Chemistry	Engineering Chemistry Lab–II	Engineering Chemistry Lab–II	Engineering Chemistry Lab–II		



BE 2/4 Mech & Prod	1 <sup>st</sup> sem	Maths & Humanities	Fourier Analysis & Partial Differential Equations	Fourier Analysis & Partial Differential Equations	Mathematics -III	Mathematics-III	Mathematics-III
		Civil Engg	Environmental Studies	Environmental Studies	1. Mechanics of materials (Theory & Lab) 2. Environmental Studies	1. Mechanics of materials (Theory & Lab) 2. Environmental Studies	1. Mechanics of materials (Theory & Lab) 2. Environmental Studies
		School of Management Studies	Managerial Economics & Accountancy	Managerial Economics & Accountancy	Managerial Economics & Accountancy	Managerial Economics & Accountancy	Managerial Economics & Accountancy
	2 <sup>nd</sup> sem	Maths & Humanities	Complex Variables and Probability Statistics	Complex Variables and Probability Statistics	Mathematics -IV	Mathematics-IV	Mathematics-IV
		Electrical & Electronics Engg.	Electrical Circuits and Machines	Electrical Circuits and Machines	Electrical Circuits and Machines	Electrical Circuits and Machines	Electrical Circuits and Machines
		Electronics & Communications Engg.	Basic Electronics	Basic Electronics	Basic Electronics	Basic Electronics	Basic Electronics
		Electrical & Electronics Engg.	Electrical Circuits and Machines Lab	Electrical Circuits and Machines Lab	Electrical Circuits and Machines Lab	Electrical Circuits and Machines Lab	Electrical Circuits and Machines Lab
		Electronics & Communications Engg.	Basic Electronics Lab	Basic Electronics Lab	Basic Electronics Lab	Basic Electronics Lab	Basic Electronics Lab



	Maths & Humanities	Soft Skills and Employability Enhancement Lab	Soft Skills and Employability Enhancement Lab	-----	-----	-----
	Civil Engg	-----	-----	-----	Fluid Dynamics	Fluid Dynamics

#### 4. Annual/ semester/choice based credit system

The college follows Semester System and choice based credit system also.

#### 5. Participation of the department in the courses offered by other departments

The Department facilitates the teaching- learning process for different subjects/ labs under its purview like Engineering Graphics/ Workshop for BE 1st year students.

Section	Semester	Dept. involved	2015-16	2014-15	2013-14	2012-13	2011-12
BE 1/4	1st sem	Biotechnology	Workshop Practice	Workshop Practice	Workshop Practice	Engg Graphics Workshop	Engg Graphics Workshop
		Chemical Engg	Workshop Practice	Workshop Practice	Workshop Practice	Workshop Practice	Workshop Practice
		Civil Engg	Workshop -I	Workshop -I	Workshop -I	Workshop Practice	Workshop Practice
		Computer Science & Engg	Engineering Graphics	Engineering Graphics	Engineering Graphics	Engg Graphics Workshop	Engg Graphics Workshop
		Electronics & Communications Engg.	Workshop	Workshop	Workshop	Engg Graphics Workshop	Engg Graphics Workshop
		Electrical & Electronics Engg.	Workshop	Workshop	Workshop	Engg Graphics Workshop	Engg Graphics Workshop



	2nd sem	Information Technology	Engineering Graphics	Engineering Graphics	Engineering Graphics	Engg Graphics Workshop	Engg Graphics Workshop
		Biotechnology	Engineering Drawing	Engineering Drawing	Engineering Drawing	Engg Graphics Workshop	Engg Graphics Workshop
		Civil Engg	Workshop-II	Workshop-II	Workshop-II	Workshop Practice	Workshop Practice
		Computer Science & Engg	Workshop	Workshop	Workshop	Workshop Practice	Workshop Practice
		Electronics & Communications Engg.	Engineering Graphics	Engineering Graphics	Engineering Graphics	Engg Graphics Workshop	Engg Graphics Workshop
		Electrical & Electronics Engg.	Engineering Graphics	Engineering Graphics	Engineering Graphics	Engg Graphics Workshop	Engg Graphics Workshop
		Information Technology	Workshop	Workshop	Workshop	Engg Graphics Workshop	Engg Graphics Workshop
BE 2/4	1st sem	Chemical Engg	Basics of Mechanical	Basics of Mechanical	Mechanical Engineer	Mechanical Engineering	Mechanical Engineer
		Chemical Engg	Mechanical Engineering Lab	Mechanical Engineering Lab	-----	-----	-----
		Electronics & Communications Engg.	Elements of Mechanical Engineering	Elements of Mechanical Engineer	Elements of Mechanical Engineer	Elements of Mechanical Engineering	Elements of Mechanical Engineer
		Electrical & Electronics Engg.	Principles of Mechanical	Principles of Mechanical	Principles of Mechanical	Principles of Mechanical Engineering	Elements of Mechanical
	2nd sem	Civil Engg	Mechanical Technology	Mechanical Technol	Mechanical Technol	Mechanical Technology	Mechanical Technol
		Electrical & Electronics Engg.	Mechanical Engineering Lab	Mechanical Engineering Lab	Mechanical Technology Lab	Mechanical Technology Lab	Mechanical Technology Lab
BE 3/4	1st sem	Biotechnology	-----	-----	-----	-----	Fluid Mechanics &



BE 4/4	1st sem	Electronics & Communications Engg.	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial
		Electrical & Electronics Engg.	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	-----	-----
		Civil Engg	Entrepreneurship (Elective)	Entrepreneurship (Elective)	-----	-----	-----
		Information Technology	Intellectual Property Rights	-----	-----	-----	-----
	2nd sem	Electrical & Electronics Engg.	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial	Industrial Administration & Financial
		Computer Science & Engg	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)
		Information Technology	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)
		Civil Engg	Intellectual Property Rights	-----	-----	-----	-----
		Electronics & Communications	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Entrepreneurship (Elective)	Intellectual Property Rights	Entrepreneurship (Elective)

## 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

	Sanctioned	Filled
Professors	06	10
Associate Professors	12	07
Asst. Professors	36	34

## 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

S.No	Name of the Faculty	Highest Qualification	Designation	Specialisation	Total Exp
1	Dr. P. Ravinder Reddy	Ph.D	Prof. & Head	Design & CAD/CAM	30
2	Dr. B. Chennakeseva Rao	Ph.D	Professor	Production	30





S.No	Name of the Faculty	Highest Qualification	Designation	Specialisation	Total Exp
3	Dr. M.V.S. Murali Krishna	Ph.D	Professor	Thermal	28
4	Dr. Y. Krishna Reddy	Ph. D	Professor	Mechanical Handling	32
5	Mr. K. Hariprasad	M.Tech	Professor	Production	33
6	Dr. G. Haragopal	Ph. D	Professor	Industrial Engg	32
7	Dr. P. Prabhakar Reddy	Ph.D	Professor	Superplastic Forming	18
8	Dr. P.V.R. Ravindra Reddy	Ph. D	Professor	Manufacturing Engg	18
9	Dr. N.V.Srinivasulu	Ph. D	Professor	CAD/CAM / Vibrations	25
10	Mr. P. Ramakrishna Reddy	M.E.	Assoc. Prof	Machine Tool Engineering	30
11	Mr. B. Suryanarayana	M.E.	Assoc. Prof.	Production Engg.	28
12	Mr. T. Ratna Reddy	M.Tech	Assoc. Prof	CAD/CAM	28
13	Mr. P.Radha Krishna Prasad	M.E.	Assoc. Prof	Design	25
14	Dr. A.A. Srirama Krishna	Ph.D	Assoc. Prof	Machine tools	25
15	Mr. R. P. Chowdary	M.Tech	Assoc. Prof	Thermal Engg.	22
16	Dr. G. Laxmaiah	Ph. D	Assoc. Prof.	Machine Design	20
18	Dr. V.V.R. Seshagiri Rao	Ph.D	Asst. Prof.	Thermal Engineering	17
19	Dr. K. Kishor	Ph. D	Asst. Prof.	Thermal Engg.	18
20	Mr. S. Solomon Raj	M.Tech	Asst. Prof.	Solid Mechanics & Machine Design	10
21	Mr. P. Kiran Kumar	M.Tech	Asst. Prof.	M/c Design	10



S.No	Name of the Faculty	Highest Qualification	Designation	Specialisation	Total Exp
22	Dr. L. Suresh Kumar	Ph. D	Asst. Prof.	Production Engineering	16
23	Ms. Y. Nagini	M.E.	Asst. Prof.	Heat Transfer	06
24	Ms. Ch. Indira Priyadarshni	M.Tech	Asst. Prof.	Thermal Engineering	06
25	Mr. N. Venkateswara Rao	M.E.	Asst. Prof.	CAD/CAM	11
26	Ms. V. Sandhya	M.E.	Asst. Prof.	Production	10
27	Dr. S. Narasimha Kumar	Ph. D	Asst. Prof	Thermal Engineering	10
28	Mr. B.V.S. Rao	M.Tech.	Asst. Prof.	Manufacturing	17
29	Ms. N. Jyothirmayi	M.Tech.	Asst. Prof.	Manufacturing	10
30	Mr. V. Jaipal Reddy	M.Tech.	Asst. Prof.	Manufacturing	08
31	Ms. P. Anjani Devi	M.E	Asst. Prof.	CAD/CAM	08
32	Dr. P. Ramalakshmi	Ph. D	Asst. Prof	FEA & Fracture Mechanics	08

### 8. Percentage of classes taken by temporary faculty – programme-wise information

Only 1 such faculty.

Sri. Harsha Pothanis - Subject handled: Entrepreneurship for B.E. 4/4 – 8 hours per week

### 9. Programme-wise Student Teacher Ratio

SNo.	Programme	Student – Teacher Ratio
1	UG – B. E Mechanical 2 Sections	15:1
	UG – B. E Production	15:1
2	PG – M.E CAD/CAM	12:1
	PG – M.E Thermal Engg.	12:1



**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

SNo.	Staff	Sanctioned	Filled
1	No. of Technical Staff	17	16
2	No. of Admn. Staff	2	2
3	Supporting Staff	4	4

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

**Ongoing R&D Projects (1)  
2015 – 2016**

Design and Development of Aerodynamically Efficient Small Wind Turbine using Ducting and Contra Rotational Rotors with composite blades. Sponsored by: MNRE, DST. Duration: 2015 – 2018. Principal Investigator/ Co-Investigator: L Ramayee/ Dr P Ravinder Reddy. Grant: Rs.21.60 lakhs

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

S.No	Title	Sponsored by	Duration	Principal investigator/ Co-investigator	Grant (Lacs.)
1	Analysis of two versions of composite NDE and DE Flanges	Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam	05.05.2011 to 05.10.2011	Dr. P.Ravinder Reddy	3.50
2	Design and	Naval Science	25.09.2009	Dr. P.Ravinder	8.99



	Development of Composite (FRP) Blower For Low Noise By using FEM & CFD Analyses	& Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam	to 15.09.2011	Reddy	
3	Design of Composite Propeller For Estimating Cavitation Performance And strength using CFD&FEM Analyses	Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam	27.05.2010 to 27.10.2011.	Dr. P.Ravinder Reddy	5.55
4	Industry Institute Partnership Cell	AICTE	2006 to 2011	Dr. P.Ravinder Reddy	10.00
5	Simulation Studies on the Explosively Formed Projectiles	PGAD, DRDO. 2008 to 2010.	2009 to 2010	Dr.G.Chandra Mohan Reddy & Dr. P.V.R.Ravindra Reddy	9.7
6	Design of Composite Propeller for Higher Cavitation Performance	Naval Science & Technological Laboratory, Govt. of India, Ministry of Defense R&D organization, Visakhapatnam	14.03.2008 to 25.11.2009	Dr. P.Ravinder Reddy	9.77
7	Integration of textured segments and optical character recognition for multimedia	AICTE	2006	Dr. P.Ravinder Reddy	8.0



	data bases				
8	Modernization of CAD/CAM Lab	AICTE	2003 to 2005	Dr. P.Ravinder Reddy	12.00
9	Tool Wear and Orthogonal Cutting of Carbon Composites”.	UGC	2001 to 2004	Dr. P.Ravinder Reddy	13.00
10	Development of Test rig for Calibration of Overspeed Governor for air Turbines.	BHEL	2001 to 2003	Dr. P.Ravinder Reddy	4.53
11	Fracture Based Design of Ceramic Composites and Fibre Geometric Modelling.	AICTE	Feb’1998. to Apr’2002.	Dr. P.Ravinder Reddy	3.00

**CONSULTANCY:**

**Dr. P. Ravinder Reddy, Professor & Head, MED**

1. Modal Analysis of The Full Steering Model: The aim of the project to predict the mode shapes of the full steering. The full steering consists of steering, column and rack assemblies. The three assemblies are modeled with second order tria shell elements. Later tetra solid elements are generated from the shell elements. The each component of the steering is now connected through the proper rigid elements. The full steering model is now solved in Nastran for Mode shapes. The mode shapes and mode values are tabulated in the report and will send to client.2011.
2. Modal Analysis of The Automotive Finishers: The aim of the project to predict the mode shapes of the different finishers like Front Door, Rear Door, Back Door, Luggage Side Trim, Cowl Top Cover etc. The finisher is modeled in Hypermesh by capturing the all the features. As these finishers are used for acoustic analysis, node to node connectivity



- is to be maintained between the components. After completing the process of analysis, the mode shapes of the finisher are observed and reported to the client. 2010.
3. Panel Rigidity Analysis of Hood: The aim of project is to find the rigidity of the Hood. The hood is tested for Torsional rigidity, Lateral rigidity and Bending rigidity. The connections are defined between hood and car body. The loads which are specified by the client are applied on the hood, after constraining the hood at required locations. At specified locations the displacement of the hood is measured and reported to the client. 2010.
  4. Non-Linear Static Analysis of Bumper Fascia,: There are four stages in this analysis.
    - (i). Modeling the Bumper Fascia using Hypermesh.: In this stage, bumper fascia is modeled using Hypermesh by capturing the features according to the client guidelines.
    - (ii). Modal Analysis : Modal analysis is carried out to predict the Mode shapes of the bumper fascia by applying the boundary conditions at the specified locations. The bumper fascia is divided into different regions for applying different pressure loads in later stages. Mode shapes and modal values are reported to the client.
    - (iii). Rigidity Analysis: The aim of this analysis is to find out optimum thickness of the bumper at the different regions. The analysis is carried out by applying specified loads at the low rigid areas which are identified from Modal analysis. The thickness of the bumper is optimized through iterative process by varying the thickness. The final thicknesses are tabulated and reported to the client.
    - (iv). Heat Analysis: The main objective of this analysis is to study the behavior of the bumper fascia with neighboring components under the variation of temperature (Weather Loads). Analysis is done for two different temperature cycles i.e., Low Temperature Cycle and High Temperature Cycle. The temperature dependant material properties are given to bumper. The bumper fascia interaction between Fender, Head Lamp, and Grill etc. are represented using GAP elements. The final Gap and Flush values at various locations are measured and reported to the client. 2009.
  5. Finite Element Modeling of Diesel Engine Cylinder Head: Ricardo Engines, USA, The Finite Element Model of a Diesel Engine Cylinder was developed using HYPERMESH V 4.0. This model has been developed using solid TETRA elements, 2008.



6. FE Modeling and Modal analysis of a steering column: Lear Inc., USA, Quantum Consultants Inc. (GSDC), India, Main aim of the project was, the Finite Element modeling and simulation of steering column mechanisms. Connections between various parts and mechanisms were simulated using 1-D Elements. The entire model is run for modal analysis and all the rigid body modes and mechanism modes were observed. In this pre and post processing was done in Hypermesh V 4.0 and MSC/NASTRAN V 70.7 is used as the solver. 2008.
7. FE Modeling and Durability analysis of a Front car door: General Motors, USA, Quantum Consultants Inc. (GSDC), India, In this project, the main aim was to check whether the deflections and stresses are within the limits of Door system Validation requirements of General Motors for different loading conditions. The scope of this project includes testing for Upper frame rigidity, Torsional rigidity, Vertical rigidity and Belt line stiffness. Pre-processing and post processing is done in Hypermesh V 3.1 and solved in MSC/NASTRAN V 70.7. 2008.
8. Finite Element Modeling and Analysis of a Parking Brake: Daimler Chrysler, USA, Quantum Consultants Inc. (GSDC), India, In this project, the main aim was to check whether the parking brake is sufficiently able to resist for the given loading. This is most significant in practical cases and the brake needs to be stiff enough to avoid failure. Hypermesh V 3.1 is used for Pre and post processing and MSC/NASTRAN V 70.7 is used as a solver. 2008.
9. FE Modeling and Static Analysis of a Car Seat: Johnson's Controls Inc., USA, Quantum Consultants Inc. (GSDC), India, In this analysis car seat was analyzed for mode shapes and modal frequencies. The connections between various parts and mechanisms were simulated using 1-D Elements. All rigid body modes and mechanism modes were observed, and it was also tested for static analysis according to Federal Motor Vehicle Safety Standard (FMVSS-207). In this pre and post processing was done in Hypermesh V 3.1 and solved in MSC/NASTRAN V 70.7., 2007.
10. Analysis of 1.2 m parabolic Dish using ANSYS: The parabolic dish antenna is modeled in catia and imported to Hyper mesh. Geometry cleanup, mesh quality is check has been made in hyper mesh, than a converged mesh is developed. The antenna assembly consist of dish, shroud, back mounting, manifold clamp, L-angles, Radome, Pole, Sway bar and their mountings, shell. Solid and beam elements are used along with couples and constrain equations. Due to wind loads, the deflections and stresses are obtained in ANSYS software. Client: RR industries, 2006.
11. Analysis of Table Top Assembly: A static analysis is carried out for table top composed of C-support frame, channels, table main and form



along with honey comb structure. In the material modeling foam, glass fabric / epoxy and carbon fabric / epoxy is used for table top assembly. Using solid 46, a layered element a converged mesh is developed. The deflections stresses and inter laminar stresses are inter laminar stresses are estimated under different loading. Client: RR industries, 2005

12. Stability Analysis of chiller package (Ship), DOE, D.R.D.L, Hyderabad, 2004.
13. Dynamic performance of compressor blade and Crank case, Tecumsce Pvt. Ltd, Hyderabad, 2004.
14. Modeling and machining of carburetor Die, sponsored by ITW Signode, Hyderabad, 2004.
15. Post process development for NC data generation of Fan Impeller assembly, Sponsored by USHA Fan, Hyderabad, 2003.
16. Analysis of solenoid valve, KPCL, Pune, 2003.
17. Modeling and Analysis of DTH hammers, Sponsored by Widia India Ltd, 2002.
18. CAE and analysis of epoxy concrete-bed, PRAGA TOOLS, 2001.

**Dr. G.Chandra Mohan Reddy**

19. On Formability studies of Super alloys- B.Tech project for Rs. 3000/-, Vasavi College of Engg. Hyderabad, 015472, 22-03-2001
20. Analysis and simulation of Deep Drawing titanium alloys- M.Tech Project for Rs. 3000/-, TTTI-Chandigarh, 01757, 118-06-2001.
21. Simulation and analysis of various formability tests – M.Tech Project for Rs.3000/-, JNTUniversity-Hyderabad, 018114, 02-08-2001.
22. Simulation and analysis of OSUFT test setup and its comparison - M.Tech Project for Rs. 3000/-, JNTUniversity-Hyderabad, 018113, 02-08-2000.
23. Studies on the effects of grain size on Deep drawing process M.Tech Project for Rs. 3000/-, TTTI-Chandigarh, 10725, 19-08-2002.

**13. Research facility / centre with**

- state recognition
- national recognition
- international recognition

Yes. Osmania University

**14. Publications:**

- \* number of papers published in peer reviewed journals (national / international)
- \* Monographs





- \* Chapter(s) in Books
- \* Editing Books
- \* Books with ISBN numbers with details of publishers
- \* number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- \* Citation Index – range / average
- \* SNIP
- \* SJR
- \* Impact factor – range / average
- \* h-index

## International Journals

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3. P.RamaLakshmi and P.Ravinder Reddy “Investigation of fracture parameters in carbon epoxy and CNT composites with variation in mechanical properties by finite element analysis” is accepted for publication in International Journal of Nanoscience Nano Engineering and Nanotechnology for January 2014 edition
4. Dr P. Ravinder Reddy, Dr P.RamaLakshmi, K. Sukanya, P. Shashikanth Reddy, Estimation of Fatigue Behaviour In Dog Bone and Three Point Specimen By Finite Element Analysis, International Journal of Advanced Mechanical Engineering, Volume 5, Number 1 (2015), pp. 1- 10, ISSN 2250-3234 , GBS Publishers & Distributors (I), <http://www.gbspublisher.com>
5. Dr.P.Ravinder Reddy, Md.Aleem Pasha, Dr.P.Laxminarayana, Dr.Ishtiaq Ahmad Khan, Effect of Reinforced Particulates (SiC And Al<sub>2</sub>O<sub>3</sub>) On Friction Stir Welded Joint of Magnesium Alloy AZ91, International Journal of Scientific & Engineering Research, Volume 6, Issue 4, April-2015, ISSN 2229-5518



6. Dr. P. Ravinder Reddy, Dr. K. Bala Showry, Reducing Particulate and NOX Emissions by Using Split Injection, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14 | Impact Factor (2013): 4.438
7. Volume 4 Issue 3, March 2015, www.ijsr.net Licensed Under Creative Commons Attribution
8. Dr P. Ravinder Reddy, Y. Venkata Narayana, Jagadish Babu Gunda, R. Markandeya,
9. Nonlinear buckling and post-buckling analysis of imperfect cylindrical shells subjected to axial compressive load, Journal of Structural Engineering, Vol. 42, No. 2, pp. 78-85., June 2015.
10. P. R. Reddy , A. C. S. Reddy, S. Rajesham, T. P. Kumar, J. Goverdhan, An experimental study on effect of process parameters in deep drawing using Taguchi technique , International Journal of Engineering, Science and Technology , Vol. 7, No. 1, 2015, pp. 21-32,ISSN 2141-2839 (O); ISSN 2141-2820 (P)
11. Reddy P. R, A. C. S. Reddy, S. Rajesham, Experimental and simulation study on the warm deep drawing of AZ31 alloy, Advances in Production Engineering & Management(APEM), Volume 10, Number 3, pp. 153–161, ISSN 1854-6250, <http://dx.doi.org/10.14743/apem2015.3.199>, September 2015
12. Dr. P. Ravinder Reddy , Dr. P. Ramalakshmi , K. Niranjana Kumar, Static Analysis of Plate Made of Carbon/Epoxy Composite Material by Using ANSYS, International Journal of Innovative Research in Science, Engineering and Technology ,Vol. 4, Issue 10,pp.10068-10078, ISSN(Online) :2319-8753 ISSN (Print) : 2347-6710,doi:10. 15680/IJIRSET.2015.0410053, October2015
13. Dr. P. Ravinder Reddy , K. Niranjana Kumar, Dr. P. Ramalakshmi, Interlaminar Shear Stresses in Plate Made of Carbon/Epoxy Composite Material Using ANSYS, International Journal of Innovative Research in Science, Engineering and Technology ,Vol. 4, Issue 10,pp.10079-10090, ISSN(Online) :2319-8753 ISSN (Print) : 2347-6710 ,doi:10.15680/IJIRSET.2015.0410054, October2015
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  19. M.V.S. Murali Krishna, R.P. Chowdary, T.Kishen Kumar Reddy and P.V.K. Murthy, (2015), Performance evaluation of waste fried vegetable oil in a medium grade low heat rejection diesel engine, Journal of Computational and Applied Research in Mechanical Engineering,(Iran) 2228-7922, 4(2), 101-120 (Impact factor=0.49)
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  21. Dr. N.V.Srinivasulu, presented a paper on ‘Analysis of Airfoil Blade of a Centrifugal Blower’, International Journal of Mech & Prod Engg., Research & Development, ISSN: 2249 – 6890, Impact factor (JCC): 5.6934, 2015
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  23. Dr N.V. Srinivasulu presented a paper on ‘Structural Aspects of Impeller Blades’, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), IC Value 3.0
  24. N. Janardhan, M.V.S. Murali Krishna and P.Usha Sri. (2015), Experimental investigations on performance parameters of diesel engine with ceramic coated insulated combustion chamber with jatropha oil with varied injection pressure, International Journal of Thermal Technologies, ISSN: 2277-4114, June, 5(2), 112-121. (Impact factor= 1.129)
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### **15. Details of patents and income generated**

1. First Patent is filled with application no.1550/MUM/2013 in the field of "Improvement in Friction Spot Welding Process" as invention in collaboration with Tata Technologies Pte Ltd Pune as a co-inventor
2. Second patent is filled with File No.: 201641028876, date of file: 24.08.2016 in the field of Hybrid Fiber Reinforced Friction Material and the title of Invention:Tribological Behavior Of Hybrid Fiber Reinforced Friction Material.  
Date of Publication:02/09/2016
3. Third patent is filled with File No.: 201641032709 date of file: 27.09.2016 in the field of manufacturing of flame-retardant poultry feather fiber blended non-woven sheets or fabric having moderate strength in the presence of binder materials as pulp of lawn-grass and waste-paper using hydro-entangled technique and the title of Invention is Flame Retardant Poultry Feather Fiber Non Woven Sheet and Process for the making same. Date of Publication:07/10/2016

### **16. Areas of consultancy and income generated**

Projects of various agencies like NSTL/ DRDO/ BHEL/ etc... in areas like Composites, Non Destructive Evaluation, FEM and CFD Analysis

Total Income generated = Rs. 55.2 lakhs



## 17. Faculty recharging strategies

Department of Mech. & Production organizes the following activities under recharging strategies:

- Guest lecturers with external experts for the benefit of students and staff.
- Organizes workshops for faculty and students.
- Encouraging the faculty doing Ph.D.
- Sponsoring for attending international conferences.
- Organizes Faculty Development Programme for faculty members.
- Incentives for publishing technical papers.
- Sponsoring for attending international conferences.
- Continuous support by the department for getting funds from external organizations such as MODROB Scheme and RPS Scheme.
- Funds from different funding agencies like DRDO, AICTE are also used for conducting workshops.

## 18. Student projects

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

Year	Students In-house Projects %	Students Industry Projects %
2010-11	71	29
2011-12	73	27
2012-13	67	33
2013-14	72	28
2014-15	75	25

## 19. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students

Dr P. Ravinder Reddy, Professor & Head, and 22 students of Mechanical Engineering Participated in the race car event organized by ATA Formula Society for Mechanical Engineering (FSAE) Italy during



September 9<sup>th</sup>-16<sup>th</sup> 2015 at Riccardo Paletti Circuit, Strada per Fosio 1, Varano de' Melegari, PR 43040 Italy.

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

a) National:

NCORM-2016

SNo.	Seminar/Conference/Workshop	Source of funding
1	Recent Advanced in Manufacturing Automation and Simulation (RAMAS-2012)	AICTE
2	A 2-day Nano Technologies and Its Applications	TEQIP-I
3	NCORM-2015	TEQIP-II

b) International:

International Conference on Technological Innovations in Mechanical Engineering - TIME 2016 on 10-11 February, 2016

**21. Student profile course-wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BE Mechanical	148	148	110	38	95
BE Production	60	60	49	11	95

\*M = Male \*F = Female

**22. Diversity of Students**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B E Mechanical	90	05	05
BE Production	90	05	05
ME CAD/ CAM	100	0	-



ME Thermal Engineering	100	0	-
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**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

GATE (Passed Out Batch 2015 – 2016) No. of BE Students cleared  
GATE = 24

**24. Student progression**

Student progression		Against % enrolled
UG to PG		20 (To pursue MS Programs)
PG to M.Phil		- N. A -
PG to Ph.D		1
Ph.D. to Post-Doctoral		- N. A -
Employed		
Employed	• Campus selection	80%
Employed	• Other than campus recruitment	10%
Entrepreneurship/Self-employment		1%

**25. Diversity of staff**

Percentage of faculty who are graduates	2015-16	2014-15	2013-14	2012-13	2011-12
of the same parent university	25.71	29.00	31.58	27.03	21.62
from other universities within the State	63.00	54.25	55.63	56.75	64.87
from other universities from other States	11.29	16.75	12.79	16.22	13.51



**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

One staff member Dr. VVS Sheshagiri Rao awarded Ph.D from JNTU in January, 2017

**27. Present details about infrastructural facilities**

- a. Library
- b. Internet facilities for staff and students
- c. Total number of class rooms
- d. Class rooms with ICT facility
- e. Students' laboratories
- f. Research laboratories

- a. **Library** – Central Library and Departmental Library made available
- b. **Internet facilities for Staff & Students** - Yes
- c. **Class rooms with ICT facility** - All class rooms of Final and Third year students are equipped with LCD, projectors, white marker board
- d. **Laboratories:** All the labs are equipped with equipment/ machines as per curriculum.

**28. Number of students of the department getting financial assistance from College.**

S I. N o	Particulars	2011-12		2012-13		2013-14		2014-15		2015-16	
		Number	Amount per candidate/ month	Number	Amount per candidate/ month	Number	Amount per candidate/ month	Number	Amount per candidate/ month	Number	Amount per candidate/ month
1	Masters	6	8000	13	8000	15	8000	16	8000	12	8000
2	Doctoral	1	10000 Lump sum	2	10000 Lump sum	1	10000 Lump sum	1	10000 Lump sum	-	-

Department	No.of Projects	Amount of Assistance (in Rs)
Mechanical	11	4,13,425
Production	1	15,000



**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes

- Based on the demand for the Program.
- Considering Suggestions given by the stake holders.
- Discussion with the management, faculty, HOD and Principal
- Benchmarking the syllabus with other colleges/universities.
- Discussions during the Board of Studies meeting.
- Getting feedback from alumni who are working in industries.
- Discussions with industry experts to make the course more relevant.

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning- evaluation? If yes, how does the department utilize it?

Yes

The curriculum and the course content are designed and framed in discussion with the members of the Board of studies and same will be passed in the Board of studies meeting(BOS). Feedback from staff is obtained during departmental committee meeting. At the end of each semester feedback is collected from faculty members about the course content, Teaching learning process and course delivery methods. This helps the Department to improve the curriculum and teaching learning evaluation.

- b. students on staff, curriculum as well as teaching-learning- evaluation and what is the response of the department to the same?

Feedback on the faculty handling the courses is obtained from the students concerned at the end of every semester. The teachers are evaluated against attributes related to teaching-learning process. Average score is converted in terms of percentage and is communicated to the teacher concerned. In case of lower scores, the faculty concerned is asked for explanation and suitable action is taken to make the teaching-learning process effective. Apart from this a faculty will have to submit the self appraisal for every year.



- c. alumni and employers on the programmes and what is the response of the department to the same?

Alumni meet is conducted every year which also includes pioneer alumni. Valuable suggestions and feedback if any, are collected and they are being used for future improvement.

Feedback from employers is collected regularly about the placed students during their training programme by training and placement office. It serves as a tool to identify skill needs and skill gaps at workplace. The valuable suggestions given are put forth in BOS and discussed. Essential points are incorporated.

**31. List the distinguished alumni of the department (maximum 10)**

Sl.No.	Name	Profession
1	Shaker Kamula	Cine Director
2	Y.S. Chowdhary	Central Minister & Industrialist
3	Kali Prasad	Industrialist
4	Avinash Dagha	Ferro Alloys
5	Satyanarayana Raju	DRDL, Scientist
6	Suresh Gupta	DGM, BDL
7	Sanjay Saboo	Saboo Motors
8	Madhusudhan Sharma	Whilshire Technologies, Madhapur
9	D. Srinivas	Vice-President, Bank of America
10	Prassana	BDL

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

SNo.	Name of the Expert	Name of Organization	Topic	Year
1	Mr Anuj Khanna Mr Suhal Kaul	TestedHealth.com learned.in	Entrepreneur Talk	2016 04.02.2016
2	Mr R Ramakrishna, Champion Lean Management	Ushaa Technologies, Hyderabad	Lean Management Six Sigma	2015 15.10.2015
3	Sri Jaipal Reddy, Sri	ISB Hyderabad ad and	Student Design Challenge	2015 17.03.2015





	Prabhakar Reddy and others (from ISB and APSKNW)	APSKNW Hyderabad		
4	Mr Shankar Muralidharan	Woxsen School of Business	Integrating Technology with Entrepreneurship and Employability	2014 23.09.2014
5	Mr V L Sastry	UNIDO-ICAMT	Seminar on Cutting Tool Technology	2012 20- .07.2012

**33. List the teaching methods adopted by the faculty for different programmes.**

1. Regular Board Work
2. Power Point Presentations using LCD Projectors
3. NPTEL Expert lectures from IITs

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures that programme objectives are constantly met and learning outcomes monitored by conducting

- Adopting appropriate teaching methodologies
- Regular class tests and sessionals as per the schedule
- Viva voce practices
- Quizzes, wherever it is possible

**35. Give details of “beyond syllabus scholarly activities” of the department.**

- Participation in Professional societies like, Institution of Engineers, ISTE.
- Delivery of special lectures.
- Organizing Automobile overhauling workshops.
- Students are motivated to participate in competitions.
- Motivated to do internships at industries within and outside the state
- Motivating the teachers and students to publish papers in



National/International Conferences and peer reviewed National/International journals.

- Motivating the students in preparing for competitive examinations.
- Students are encouraged to do the mini projects.
- Participation of students in Makers of India-CBIT

**36. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

AFFILIATIONS / ACCREDITATIONS / CERTIFICATIONS / PARTICIPATIONS	
Year	Description
1979	Affiliated to Osmania University
1998, 2004, 2008, 2013	NBA-Accreditation for UG program
2002	An ISO certified institution
2007	Associating with CEME, Osmania University
2010	Accredited by NAAC-UGC
2012	Recognition of the Department as a Research Center by Osmania University
2012	TEQIP-II Participating Institution
2013	UGC Autonomous Status
2016	PG NBA Accreditation

**37. Highlight the participation of students and faculty in extension activities.**

All the students and faculty are encouraged to participate in the extra and cocurricular activities. Also, students participate in the inter college and inter universities activities in the form of academic and sports events.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

SWOC Analysis of the Department and Future Plans of Mechanical Engineering Department CBIT

**SWOC ANALYSIS**

**Strengths**

1. **First private** Engineering College in Telangana state but **SECOND** in the combined states of Andhra Pradesh with 35 years of existence.



2. Sprawling 105 acres campus with well laid built-up structures and scenic landscape and perfect eco ambience.
3. Well ventilated circulation area with all amenities like toilets, corridors, stair cases, staff rooms etc.
4. Since we have a faculty student ratio 1:15 we can closely monitor them in their Curricular and Co-curricular activities.
5. Unique facility of clinic with a doctor and nurse catering to the needs of staff and students in the campus. We are following the highly appreciated ISO system, developed by the college and certified by an external body.
6. Our students are regularly getting University Ranks.
7. Fifteen of our faculties are Doctorates, Five have submitted their thesis and others are pursuing Doctoral programme in various Universities
8. Department frequently arranges Guest Lectures, Industrial Visits and Industrial tours to the students.
9. Reasonably good research facilities and activities in terms of Sponsored Projects, Collaborations, Centre of Excellence and Research publications
10. Faculty carried out 22 research projects, 17 consultancy works and more than 600 papers published in national and international journals and conferences.
11. Department frequently arranges workshops, seminars and conferences both national and international conferences. Recently organised ones being National conference NCORM, International Conference TIME-2016.
12. As our college is autonomous from last three years, we are updating the syllabus to meet the requirements of industries.
13. Department is recognised as research centre by Osmania University (OU). Department faculty guided 26 Ph.D Scholars so far and 20 Research Scholars are pursuing their research under the dept. Faculty guidance.
- 14 All class rooms are provided with ICT tools like LCD projectors.
- 15 The college has a very good record in placements. The alumni of this institute occupy

top positions in several corporate houses and as such the college has a good reputation in the corporate world. The students get very good academic as well as soft skill inputs which will result in better placement for the current students.

### **Weakness**

1. Since the College is far away from the city we could not over stay to continue our activities of a day.



2. More number of faculty need to involve in carrying out R & D in the college instead of a few faculty of the department
3. Residential accommodation for the faculty, staff and students
4. No interaction between students and staff after college hours
5. Less publicized unlike others and having faith in “done instead of spoken”.
6. Believing in sustained growth instead of rapid artificial growth
7. Transport facilities after college hours at least 2 to 3 intervals.
8. Non availability of diversified research instrumentation and facilities

### **Opportunities**

1. To establish collaborative centers/ incubation centers/ start up centers
2. To Interact with DRDL, NSTL, IICT, BHEL, NFC, HAL for the collaborative and sponsored research and constancy
3. Scope to work with the industries of alumni for the students projects and product development
4. To learn the industry needs the faculty can work a certain period with industry and need to help in both ways
5. The state of Telangana has a lot of scope for development in the Industrial sector. Since the college is 35 years old and has well experienced faculty, it plays a vital role in technical education in the state to produce quality graduates to be employed in industries and to be self employed through entrepreneurship and skill development programmes, to fulfil our college Motto-SWAYAMTHEJASWINBHAVA.
6. To involve and work on innovative projects
7. To work in the interdisciplinary fields within the department or inter-departmental or external collaboration.
8. To train the students on areas such as internships, industrial training programmes, application software's.

### **Challenges**

1. To have more funded research projects from DST, AICTE, UGC, Defence organisations
2. Involvement of more number of students for workshops, lectures



from experts

3. Seeking permissions from Industries so that all the students can find internships
4. Motivating for mini projects
5. Permission for more research funding for idea/innovative projects by the institute
6. Encouraging the students to carry Industry/ Society relevant projects
7. To encourage students to undergo extra courses, summer training etc

### **39. Future plans of the department.**

1. To do quality research and publish papers in peer reviewed journals and submit more research proposals to funding agencies like AICTE, UGC,DST,DRDL,NSTL and so on
2. Establishing research laboratories in design, manufacturing, thermal and industrial engineering related areas.
3. Network of collaborative research with academia, research organisations and industries both in India and abroad.
4. Motivating all the faculty to do research and quality publications.
5. Facilitating common facilities for the students to work on various projects like all terrain vehicle, race cars, micro light, robots/manipulator or any other by establishing all facilities required for them without any laboratory conflicts.
6. Strengthening the activities of ASME, Robotics, SAE, ISTE, CMSI and MEA chapters
7. The faculty of department encouraged to complete Ph.D (those without Ph.D) in next five years then for the fresh recruitment the entry level qualification is Ph.D.



## Evaluative Report of the Departments

### 1. Name of the department & its year of establishment:

#### Information Technology & 2004

Level	Program	Start Date
UG	B. E. (Information Technology)	2000-01
PG	M.Tech(Computer Networks and Information Security)	2013-14

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

Level	Program	Current Intake	
		2011-2015	2015-16
UG	BE(Information	60	120
		<b>2013-2016</b>	
PG	M.Tech (Computer	18	

### 3. Interdisciplinary courses and the departments involved

Course	Department
Probability And Random Process(BIT 251PRP)	MathsAnd Humanities Department
Entrepreneurship(ME 411 ES)	Mechanical Department
Managerial Economics(CM 321 MEA)	SMS Department
Number Theory(ME)	MathsAnd Humanities Department
English – I(EG 111)	MathsAnd Humanities Department
Mathematics – I(MT 111)	MathsAnd Humanities Department
Engineering Physics – I(PY 111)	MathsAnd Humanities Department
Engineering Chemistry – I(CY 111)	Chemistry Department
Environmental Studies (CE 112)	Civil Department
Engineering Graphics (ME 112N)	Mechanical Department
English Language Laboratory – I(EG 112)	MathsAnd Humanities Department
Engineering Physics Lab – I / Engineering Chemistry Lab – I(PY 114/CY 114)	MathsAnd Humanities Department/Chemistry
English – II (EG 121)	MathsAnd Humanities Department
Mathematics – II (MT 121)	MathsAnd Humanities Department
Applied Physics (PY 122)	MathsAnd Humanities Department
Engineering Chemistry – II (CY 121)	Chemical Department



Principles of Electrical Engineering (EE 111)	Electrical Department
Engineering Mechanics – I (CE 111)	Civil Department
English Language Laboratory – II (EG 122)	Maths And Humanities Department
Engineering Physics Lab – II / Engineering Chemistry Lab – II (PY 125/ CY 123)	Maths And Humanities Department
Workshop (ME 114)	Mechanical
Electrical Circuits and Machines (EE 223UE)	Electrical and Electronics Department

#### 4. Annual/ semester/choice based credit system (programme wise)

Level	Program	System of Education
UG	BE (Information Technology)	Semester System
PG	M.Tech (Computer Networks and Information Security)	Semester System

#### 5. Participation of the department in the courses offered by other departments

The Department offers IT Workshop (IT 111) course to CSE Department in B.E, 1/4, I-semester with effect from the academic year 2013-14.

#### 6. Number of Teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

2015-16	Sanctioned		Filled			
	PG	UG	PG	UG	Regular	Adhoc
Professors	----	01	---	01	01	-
Associate Professors	01	02	01	02	02	01
Asst. Professors	02	11	02	11	07	06

2014-15	Sanctioned		Filled			
	PG	UG	PG	UG	Regular	Adhoc
Professors	----	01	---	1	1	-
Associate Professors	01	02	01	2	2	1
Asst. Professors	02	09	02	9	8	3



2013-14	Sanctioned		Filled			
	PG	UG	PG	UG	Regular	Adhoc
Professors	--	01	--	01	01	--
AssociateProfessors	01	02	01	02	02	01
Asst.Professors	01	09	01	09	08	02

2012-13	Sanctioned	Filled
Professors	1	1
AssociateProfessors	2	2
Asst.Professors	9	8

2011-12	Sanctioned	Filled	Adhoc
Professors	1	1	-
AssociateProfessors	2	2	-
Asst.Professors	9	8	1

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

**2011-12**

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4years
1.	Dr. Suresh Pabboju	BE (ME), MTech(CSc), PhD(CSE)	Professor	Image processing & Computer Vision	25	Nil
2.	Ms. K. Sugamy	B.Tech. (ECE), M.Tech(CSc), (PhD)	Associate Professor	Image processing	11	Nil
3.	Ms. K. Radhika	B.Tech. (EEE)	Associate Professor	Mobile	15	Nil





		M.Tech(CSc) , Ph.D(CSE)		communication s		
4.	Ms. A. Sirisha	B.Tech.(CSE) , M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	08	Nil
5.	Ms. M. Trupthi	B.Tech.(CSE) , M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	09	Nil
6.	Ms. E. Ramalakshmi	B.Tech.(EEE) , M.Tech (C.Sc)	Assistant Professor	Image processing	09	Nil
7.	Ms. L.Keerthi	B.Tech.(CSE) , M.Tech (CSE)	Assistant Professor	Natural Language Processing	06	Nil
8.	Ms. KNVS. Sridevi	B.Tech.(CSE) , M.Tech (C.Sc)	Assistant Professor	Machine learning	06	Nil
9.	Ms. K. Swathi	B.E. (IT) M.Tech. (CSE)	Assistant Professor	Machine learning	05	Nil
10.	Ms. T. Prathima	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Multimedia processing	05	Nil
11.	Ms. B. VeeraJyothi	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Image processing	06	Nil
12.	Mr. K.GangadharaRao	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Machine learning, computer vision	04	Nil

2012-13



S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. Suresh Pabboju	BE (ME), MTech(CSc), PhD(CSE)	Professor	Image processing & Computer Vision	26	Nil
2.	Ms. K. Sugamya	B.Tech. (ECE), M.Tech(CSc), (PhD)	Associate Professor	Image processing	12	Nil
3.	Ms. K. Radhika	B.Tech. (EEE) M.Tech(CSc), Ph.D(CSE)	Associate Professor	Mobile communications	16	Nil
4.	Ms. A. Sirisha	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	09	Nil
5.	Ms. M. Trupthi	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	10	Nil
6.	Ms. E. Ramalakshmi	B.Tech.(EEE),M.Tech (C.Sc)	Assistant Professor	Image processing	10	Nil
7.	Ms. L.Keerthi	B.Tech.(CSE), M.Tech (CSE)	Assistant Professor	Natural Language Processing	07	Nil
8.	Ms. KNVS. Sridevi	B.Tech.(CSE), M.Tech (C.Sc)	Assistant Professor	Machine learning	07	Nil
9.	Ms. K. Swathi	B.E. (IT) M.Tech. (CSE)	Assistant Professor	Machine learning	06	Nil
10.	Ms. T. Prathima	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Multimedia processing	06	Nil
11.	Ms. B. VeeraJyothi	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Image processing	07	Nil
12.	Mr. K. Gangadhara Rao	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Machine learning, computer vision	05	Nil

2013-14



S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. Suresh Pabboju	BE (ME), MTech(CSc), PhD(CSE)	Professor	Image processing & Computer Vision	27	Nil
2.	Ms. K. Sugamya	B.Tech. (ECE), M.Tech(CSc), (PhD)	Associate Professor	Image processing	13	Nil
3.	Ms. K. Radhika	B.Tech. (EEE) M.Tech(CSc), Ph.D(CSE)	Associate Professor	Mobile communications	17	Nil
4.	Dr. Smriti Agrawal	B.Tech, PhD	Associate Professor	Real time systems	09	Nil
5.	Ms. A. Sirisha	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	10	Nil
6.	Ms. M. Trupthi	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	11	Nil
7.	Ms. E. Ramalakshmi	B.Tech.(EEE), M.Tech (C.Sc)	Assistant Professor	Image processing	11	Nil
8.	Ms. L.Keerthi	B.Tech.(CSE), M.Tech (CSE)	Assistant Professor	Natural Language Processing	08	Nil
9.	Ms. KNVS. Sridevi	B.Tech.(CSE), M.Tech (C.Sc)	Assistant Professor	Machine learning	08	Nil



10.	Ms. K. Swathi	B.E. (IT) M.Tech. (CSE)	Assistant Professor	Machine learning	07	Nil
11.	Ms. T. Prathima	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Multimedia processing	07	Nil
12.	Ms. B. VeeraJyothi	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Image processing	08	Nil
13.	Mr. K. GangadharaRao	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Machine learning, computer vision	06	Nil
14.	Mr. HanumanthaRao Jalla	B.Tech. (CSE) M.Tech.(IT ) (Ph.D)	Assistant Professor	Data mining	07	Nil

#### 2014-15

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4years
1.	Dr. Suresh Pabboju	BE (ME), MTech(CSc), PhD(CSE)	Professor	Image processing & Computer Vision	28	Nil
2.	Ms. K. Sugamya	B.Tech. (ECE), M.Tech(CSc) , (PhD)	Associate Professor	Image processing	14	Nil
3.	Dr. K. Radhika	B.Tech. (EEE) M.Tech(CSc) , Ph.D(CSE)	Associate Professor	Mobile communications	18	Nil
4.	Dr. Smriti Agrawal	B.Tech, PhD	Associate Professor	Real time systems	10	Nil
5.	Ms. A. Sirisha	B.Tech.(CSE)	Assistant	Data mining	11	Nil



		), M.Tech (C.Sc) (Ph.D)	Professor			
6.	Ms. M. Trupthi	B.Tech.(CSE , M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	12	Nil
7.	Ms. E. Ramalakshmi	B.Tech.(EEE , M.Tech (C.Sc)	Assistant Professor	Image processing	12	Nil
8.	Ms. L.Keerthi	B.Tech.(CSE , M.Tech (CSE)	Assistant Professor	Natural Language Processing	09	Nil
9.	Ms. KNVS. Sridevi	B.Tech.(CSE , M.Tech (C.Sc)	Assistant Professor	Machine learning	09	Nil
10.	Ms. K. Swathi	B.E. (IT) M.Tech. (CSE)	Assistant Professor	Machine learning	08	Nil
11.	Ms. T. Prathima	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Multimedia processing	08	Nil
12.	Ms. B. VeeraJyothi	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Image processing	09	Nil
13.	Mr. K. GangadharaRao	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Machine learning, computer vision	07	Nil
14.	Mr. HanumanthaRaoJ alla	B.Tech. (CSE) M.Tech.(IT) (Ph.D)	Assistant Professor	Data mining	08	Nil
15.	Mr. V. Santhosh	B.Tech.(IT) M.Tech.(CS E)	Assistant Professor	Bigdata Analytics	05	Nil

2015-16



S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. Suresh Pabboju	BE (ME), MTech(CSc), PhD(CSE)	Professor	Image processing & Computer Vision	29	Nil
2.	Dr. K. Radhika	B.Tech. (EEE) M.Tech(CSc) , Ph.D(CSE)	Associate Professor	Mobile communication	19	Nil
3.	Ms. K. Sugamya	B.Tech. (ECE), M.Tech(CSc) , (PhD)	Associate Professor	Image processing	15	Nil
4.	Dr. Smriti Agrawal	B.Tech, PhD	Associate Professor	Real time systems	11	Nil
5.	Ms. A. Sirisha	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	12	Nil
6.	Ms. M. Trupthi	B.Tech.(CSE), M.Tech (C.Sc) (Ph.D)	Assistant Professor	Data mining	13	Nil
7.	Ms. E. Ramalakshmi	B.Tech.(EEE), M.Tech (C.Sc)	Assistant Professor	Image processing	13	Nil
8.	Ms. KNVS. Sridevi	B.Tech.(CSE), M.Tech (C.Sc)	Assistant Professor	Machine learning	10	Nil
9.	Ms. K. Swath	B.E. (IT) M.Tech. (CSE)	Assistant Professor	Machine learning	09	Nil
10.	Ms. T. Prathima	B.Tech. (CSE) M.Tech.	Assistant Professor	Multimedia processing	09	Nil



		(C.Sc)				
11.	Ms. B. VeeraJyothi	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Image processing	10	Nil
12.	Ms. K. GangadharaRao	B.Tech. (CSE) M.Tech. (C.Sc)	Assistant Professor	Machine learning, computer vision	08	Nil
13.	Mr. HanumanthaRaoJal la	B.Tech. (CSE) M.Tech.(IT) (Ph.D)	Assistant Professor	Data mining	09	Nil
14.	Mr. V.Santhosh	B.Tech.(IT) M.Tech.(CSE )	Assistant Professor	Bigdata Analytics	06	Nil
15.	Mr. U.Sai ram	B.Tech.(IT) M.Tech.(CSE )	Assistant Professor	Data mining	02	Nil
16.	Ms. KanchanM. Tarwan i	B.E.(CSE) M.Tech.(IT)	Assistant Professor	Image processing	02	Nil
17.	Mr. RakeshSalakapuri	B.Tech. (CSE) M.Tech.(SE)	Assistant Professor	Data Mining, Information Security	05	Nil

### 8. Percentage of classes taken by temporary faculty – programme-wise information

S. No.	Year	Program	% of lectures delivered	% of practical classes handled
1	2011-12	B.E.	3.43	6.32
2	2012-13	B.E.	1.89	7.09
3	2013-14	B.E.	5.63	10.56
		M.Tech (CNIS)	9.98	11.22
4	2014-15	B.E.	3.41	18.52
		M.Tech (CNIS)	20.68	3.10
5	2015-16	B.E.	6.75	22.24
		M.Tech (CNIS)	25.34	11.41

### 9. Programme-wise Student Teacher Ratio



S. No.	Program	Student-Teacher Ratio
2011-12	B. E.	15:1
2012-13	B. E.	15:1
2013-14	B.E.	15:1
	M.Tech (CNIS)	6:1
2014-15	B.E.	15:1
	M.Tech (CNIS)	6:1
2015-16	B.E.	15:1
	M.Tech (CNIS)	6:1

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

		Sanctioned	Filled
2011-12	Support staff(technical)	03	03
	Administrative staff	01	01
2012-13	Support staff(technical)	03	03
	Administrative staff	01	01
2013-14	Support staff(technical)	04	04
	Administrative staff	01	01
2014-15	Support staff(technical)	04	04
	Administrative staff	01	01
2015-16	Support staff(technical)	04	04
	Administrative staff	01	01

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

--NIL--

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

--NIL--

**13. Research facility / centre with**

- state recognition
- national recognition
- international recognition

--NIL--

**14. Publications:**





**2011-12**

S. No	Staff Name	IJ	NJ	IC	NC	Chap. in Book	Books	Articles	Total
1	Dr. Suresh Pabboju	-	-	-	1	-	-	-	1
2	Ms. K. Sugamya	-	-	-	-	-	-	-	-
3	Ms.K. Radhika	3	-	3	-	-	-	-	6
5	Ms. A. Sirisha	-	-	-	-	-	-	-	-
6	Ms. M. Trupthi	-	-	-	-	-	-	-	-
7	Ms. E. Rama Lakshmi	-	-	-	-	-	-	-	-
8	Ms. L. Keerthi	-	-	-	-	-	-	-	-
8	Ms. K.N.V.S. Sridevi	-	-	-	-	-	-	-	-
9	Ms. K. Swathi	-	-	-	-	-	-	-	-
10	Ms. T. Prathima	-	-	-	-	-	-	-	-
11	Ms. B. VeeraJyothi	-	-	-	-	-	-	-	-
12	Mr. K. GangadharaRao	-	-	-	1	-	-	-	1

- Number of papers published in peer reviewed journals (national /international)

	IJ	NJ	IC	NC	Total
<b>2011-12</b>	<b>03+2</b>	<b>-</b>	<b>03+1</b>	<b>2</b>	<b>11</b>

- Monographs
  - Chapter(s) in Books
  - Editing Books
  - Books with ISBN Nnumbers with details of publishers
  - number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - Citation Index - range / average
  - SNIP
  - SJR
  - Impact factor - range / average
  - h-index
- Number of papers published in peer reviewed journals (national/ International) by faculty and students



	IJ	NJ	IC	NC	Total
2014-15	5	-	9	1	15

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)**

- Citation Index: 0-15
- Impactfactor:0-8.4(Research gate Impact factor)
- h-index:0-4

### **Publications in International Journals and International Conferences**

#### **2014-15 (1<sup>st</sup> July 2014 to 30<sup>th</sup> June 2015)**

##### **International Journals**

1. K. Radhika and A. Venugopal Reddy “Modeling and Analysis of SAW based Mobile Centric Vertical Handoff Decision”, in International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 5, Issue 5, May 2015, pp. 1139-1146.
2. Suresh Pabboju, GangadharaRaoKommu, “A Probabilistic Based Multi-label Classification Method Using Partial Information Method Using Partial Information”, Springer – Volume 2,Advances in Intelligent Systems and Computing Volume 338, ISBN 978-3-319, pp 27-34.2015.
3. E. RamaLakshmi, “English to Telugu Rule based Machine Translation System: A Hybrid Approach”, International Journal of Computer Applications(IJCA), Volume 101,Number 2, September 2014,ISBN : 973-93-80883-63-4.
4. J. HanumanthRao, “An efficient Algorithm for Privacy Preserving Data mining using Hybrid transformation” International Journal of Data mining & Knowledge Management Process (IJDMP), Volume 4, July 2014, pp 45-53.
5. Dr. Suresh Pabboju Prof.,B.Prasanthi and D.VasumathiPublished a paper titled “Detection of Vehicles in Aerial Surveillance”, in International Journal of Advances in Computer, Electrical & Electronics Engg., ISSN: 2248-9584, Volume 3, Issue 1, pp.37-42.



### International Conferences

1. Suresh Pabboju, GangadharaRaoKommu, “A Probabilistic Based Multi-label Classification Method Using Partial Information Method Using Partial Information” International Conference on Emerging ICT for bridging future of CSI- 2014, at the 49th Annual Convention of the Computer Society of India organized by CSI – Hyderabad Chapter in association with JNTUH & DRDO, 12<sup>th</sup> to 14<sup>th</sup> December, 2014.
2. SmritiAgrawal, Ankita Jain, IshaWalia and TalwinderKaur, “Inverse Rate Monotonic Technique for Reduced Energy Consumption for Weakly Hard Real Time Systems”, International Conference on Computing and Communication Technologies, ICCCT 2014, from 11<sup>th</sup> to 13<sup>th</sup> Dec, 2014, Hyderabad, India. Technically co-sponsored by IEEE Hyderabad Section, CSI Hyderabad Section, TEQIP-II, ASL (DRDO).
3. E. RamaLakshmi, “Rule-Based Machine Translation from English to Telugu with Emphasis on Prepositions”, First International Conference on Networks & Soft Computing (ICNSC 2014) organized by Vignan’s Foundation for Science, Technology & Research with Technical Sponsorship of IEEE Hyderabad Section during 19<sup>th</sup> to 20<sup>th</sup> August 2014 at Guntur.
4. K. Sugamya, “Content Based Image Retrieval Using InvariantColor and Texture Features”, 2<sup>nd</sup> International Conference on Innovations in Computer Science & Engineering (ICICSE-2014) during 8<sup>th</sup> to 9<sup>th</sup> August, 2014 at Guru Nanak Institutions Technical Campus, Ibrahimpatnam, R.R. District., Hyderabad, A.P, India Pin-501506.
5. Suresh Pabboju, M. Trupthi, GangadharaRaoKommu, “A Novel Approach for Multi-label Classification using Probabilistic Classifiers”, IEEE International Conference on Advances in Engineering & Technology Research (ICAETR - 2014), 01<sup>st</sup> to 02<sup>nd</sup> August, 2014, Dr. VirendraSwarup Group of Institutions, Unnao, India
6. SmritiAgrawal, B. Madhavi Devi, RajeshwarRao, “Efficient Resource Reservation Policies for Effective Resource Management Using Reservation Pool”, Second International Conference on Emerging Research in Computing, Information, Communication And Applications - ERCICA-2014, 01<sup>st</sup> to 02<sup>nd</sup> August, 2014, Bangalore, India proceedings by ELSEVIER, ISBN: 9789351072607.
7. B Madhavi Devi, Dr. SmritiAgrawal AssocProf. and Dr. R. RajeshwarRao, published a paper titled “Effective Resource Management Techniques Using Reservation pool” in IEEE International Conference on Recent



Advances & Innovations in Engineering (ICRAIE-2014) Jaipur during May 09<sup>th</sup>-11<sup>th</sup> 2014.

8. Mr GangadharaRao K Asst.Prof., M.TrupthiAsst.Prof and Dr. Suresh Pabboju, Prof., Published a paper titled “A novel approach for multi-label classification using probabilistic classifiers” in Advances in Engineering and Technology Research (ICAETR), 1<sup>st</sup>- 2<sup>nd</sup> august 2014, IEEE ISSN2347-9337.
9. Dr Suresh Pabboju, M. Trupthi, GangadharaRaoKommu, “A Novel Approach for Multi-label Classification using Probabilistic Classifiers”, IEEE International Conference on Advances in Engineering & Technology Research (ICAETR - 2014), August 01-02, 2014, Dr. VirendraSwarup Group of Institutions, Unnao, India
10. SwathyVodithala and Suresh Pabboju, “A clustering technique based on the specifications of software components”, International Conference on Advanced Computing and Communication Systems (ICACCS -2015) in association with IEEE Madras section, Jan. 05 – 07, 2015, Coimbatore, INDIA. Print ISBN : 978-1-4799-6437-6, pp. 1-6
11. SumalathaBandela, Ramesh Gadde and Suresh Pabboju, “Survey on Cloud Computing Techniques and Security Threats”, International Conference on Emerging Trends in Electronics and Telecommunications(ICETET) held during 29th to 31st May, 2015 at Kuala Lumpur, Malaysia, eISSN : 2349-0020, pISSN : 2394-4544
12. KAditya Kumar and Suresh Pabboju, “A Comparative Result Analysis of Text Based Steganographic Approaches”, International Organization of Scientific Research - Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 17, Issue 3, Ver. VII (May – Jun 2015), pp. 70-74.

## 2015-16

### a) Publication per faculty



S. No	Staff Name					Chap. in Book	Books	Articles	
		IJ	NJ	IC	NC				Total
1	Dr. Suresh Pabboju	5	-	10	-	-	-	-	16
2	Dr. K. Radhika	1	-	1	-	-	-	-	2
3	Ms. K. Sugamya	-	-	1	-	-	-	-	1
4	Dr. SmritiAgrawal	-	-	-	-	-	-	-	-
5	Ms. A. Sirisha	2	-	-	-	-	-	-	2
6	Ms. M. Trupthi	-	-	1	-	-	-	-	1
7	Ms. E. Rama Lakshmi	-	-	2	-	-	-	-	2
8	Ms. K.N.V.S. Sridevi	-	-	-	-	-	-	-	-
9	Ms. K. Swathi	-	-	-	-	-	-	-	-
10	Ms. T. Prathima	-	-	2	-	-	-	-	2
11	Ms. B. VeeraJyothi	-	-	-	-	-	-	-	-
12	Mr. K. GangadharaRao	-	-	-	-	-	-	-	-
13	Mr. J. HanumanthaRao	-	-	1	-	-	-	-	1
14	Mr. V. Santhosh	-	-	-	-	-	-	-	-
15	Mr. U. Sai Ram	-	-	-	-	-	-	-	-
16	Ms. KanchanTarwani	1	-	-	-	-	-	-	1
17	Mr. S. Rakesh	-	-	-	-	-	-	-	-

- **Number of papers published in peer reviewed journals (national/ International) by faculty and students**

	IJ	NJ	IC	NC	Total
<b>2015-16</b>	<b>10</b>	<b>-</b>	<b>18</b>	<b>-</b>	<b>28</b>

- **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)**

- Citation Index: 0-18
- Impactfactor:0 - 6.557
- h-index:0 - 4
- SJR : 0.53



## **Publications in International Journals and International Conferences**

### **2015-16 (1st July 2015 to 30th June 2016)**

#### ***International Journals***

1. Venkatesh D, Vijay Kumar Damera and Suresh Pabboju, "InterCloud: The Cloud of Clouds", International Journal of Computer Science and Mobile Applications, Vol.4 Issue. 5, May- 2016, ISSN: 2321-8363, Impact Factor: 4.123, pg. 34-40.
2. A.RatnaRaju, P.Suresh, R.RajeswaraRao, Recent Advancements in the Automatic Detection and Segmentation of GBMs from Multimodal Brain MRI Images, SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – volume 2 issue 10 October 2015.
3. G Ramya and K Radhika. Article: Personalized QOS based Ranking Approach for Cloud Service Selection. *International Journal of Computer Applications* 127(18):27-34, October 2015. Published by Foundation of Computer Science (FCS), NY, USA.
4. KanchanM.Tarwani, SalehaSaudagar, HarshalMisalkar “Maintaining Information Privacy: A Review on Probability Theory” published a paper in International Journal of Innovative and Emerging Research in Engineering, Volume 3, Special Issue 1, ICSTSD 2016, in May 2016.
5. A. Sirisha, Suresh Pabboju, G. Narsimha, “ Efficient Mining of Sequential Pattern in a Sequence Database with weight Constraint” International journal on Recent and Innovation Trends in Computing and Communication, ISSN : 2321-8169, Volume 4, ISSN 6, pp.394-397.
6. Sirisha, Suresh Pabboju, G. Narsimha, “ Comparative Study of Time Interval weighted Sequential pattern Mining and Prefixspan algorithm”, International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE), Volume 4, Issue 6, June 2016, ISSN(Online): 2320-9801 & ISSN (Print): 2320-9798
7. A RatnaRaju, PSuresh, RRajeswaraRao, “Recent Advancements in the Automatic Detection and Segmentation of GBMs from Multimodal Brain MRI Images”, SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – volume 2 issue 10 October 2015.



8. M.Trupthi, Suresh Pabboju, G. Narsimha, “A Survey of Topic Pattern Mining in Text Mining”, International Journal of Computer Systems (ISSN: 2394-1065), Volume 03– Issue 05, May, 2016, pp.407-413. (<http://www.ijcsonline.com>)

International Journal of Computer Systems (IJCS) is an international peer reviewed, open access, online, interdisciplinary, monthly and fully refereed journal

### *International Conferences*

1. J. HimaBindu and Suresh Pabboju, “Cloud Security Issues in Virtualization and Containerization”, International Conference on Innovations in Computer Science and Information Technology (ICICSIT -2015) Organized by MGIT, Hyderabad with technical association with IEEE, ISTE and CSI, held during 28th and 29th of August, 2015, ISBN : 978-93-85100-08-6, pp. 656-661.
2. SwathyVodithala and Suresh Pabboju, “A dynamic approach for retrieval of software components using genetic algorithm”, 6th IEEE International Conference on Software Engineering and Service Science (ICSESS-2015), held during 23-25 September 2015, Beijing, China. ISSN : 2327-0586, print ISBN: 978-1-4799-8352-0, pp.406-410.
3. R. Srinivas and Suresh Pabboju, “A Comprehensive framework for Automatic Image Annotation”, International Conference on Research Advancements in Engineering, Science, and Information Technology (ICRAESIT-2015) Organized by BVRIT, Hyderabad in association with IETE and CSI, held during 15th and 16th of December, 2015, ISBN : 978-93-85100-56-7, pp. 8-11.
4. Shankar NayakBhukya and Dr.SureshPabboju have published the paper “Software Architecture Central Concern, Key Decisions”, in the proceedings of International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016, DMJ College of Engineering, Chennai, Tamilnadu, India, during 3-5 March, 2016
5. Shankar NayakBhukya and Dr. Suresh Pabboju have published the paper “Software Architecture Techniques and Emergence of Problem Domain in E-Governance”, in the proceedings of International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016



- with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016, DMJ College of Engineering, Chennai, Tamilnadu, Indai, during 3-5 March, 2016
6. Shankar NayakBhukya and Dr. Suresh Pabboju have published the paper “Evaluating Service Oriented Architectures (SOA) in Pervasive Computing”, in the proceedings of International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016, DMJ College of Engineering, Chennai, Tamilnadu, Indai, during 3-5 March, 2016
  7. Shankar NayakBhukya, Dr. Suresh Pabboju and Dr. K. Venkatesh Sharma have published the paper “Implementing Privacy Mechanisms for Data using Anonymization Algorithms”, in the proceedings of International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016, DMJ College of Engineering, Chennai, Tamilnadu, India, during 3-5 March, 2016
  8. Shankar NayakBhukya, Dr. Suresh Pabboju and Dr. K. Venkatesh Sharma have published the paper “Data Security in Cloud computing and Outsourced Databases”, in the proceedings of International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016 with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016, DMJ College of Engineering, Chennai, Tamilnadu, India, during 3-5 March, 2016
  9. M.Trupthi, Suresh Pabboju, G.Narsimha, “Improved Feature Extraction and classification Sentiment Analysis”, International Conference on Advances in Human Machine Interaction (HMI - 2016), March 03-05, 2016, R. L. Jalappa Institute of Technology, Doddaballapur, Bangalore, India. (978-1-4673-8810-8/16/\$31.00 ©2016 IEEE)
  10. KattaSugamy, Suresh Pabboju, A.VinayaBabu, “CBIR Classification Using Support Vector Machines”, International Conference on Advances in Human Machine Interaction (HMI - 2016), March 03-05, 2016, R. L. Jalappa Institute of Technology, Doddaballapur, Bangalore, India. (978-1-4673-8810-8/16/\$31.00 ©2016 IEEE).
  11. Dr. K. Radhika, Associate Professor and Priyanka presented a paper entitled "Effective Key Management for Remote Cooperative Groups" at International conference on Innovations in Computer Science and Information Technology (ICICSIT-2015) organized by MGIT during 28th& 29th August 2015.
  12. T. Prathima, A. Govardhan, Y Ramadevi, “Automatic Detection of Violent Scenes in Tollywood Movies – A Rough Set Approach”, First





International Conference on Computational Intelligence and Informatics (ICCII 2016), organized by Department of Computer Science and Engineering JNTUH CEH during 28th -30th May, 2016.

13. E.Rama Lakshmi ,Assistant Professor presented a paper titled “ Hybrid Image Retrieval Using HOG and ARP” in the International Conference on Innovations in computer science and Information Technology (ICICSIT 2015) organized by Mahatma Gandhi Institute of Technology Hyderabad, India during 28-29 August 2015.
14. E.RamaLakshmi,Assistant Professor presented a paper titled “Rule based Machine Translation of Complex Sentences from English to Telugu” in the National Conference on Information Security (NCIS-2015) organized by Department of Computer Science & Engineering, CBIT, Hyderabad during 26-27 August 2015.
15. T. Prathima, A. Govardhan, Y Ramadevi, “ Role of Rough Sets in classifying audio data”, International Conference on Research Advances in Integrated Navigation Systems (RAINS-2016), 6th-7th April, 2016, R.L.Jalappa Institute of Technology, Doddaballapur, Bangalore India.
16. HanumanthRaoJalla, P.N.Girija, “A Novel Approach for Horizontal Privacy Preserving Data Mining”, in 3rd International Conference India - 2016, Vizag, Jan 8-9 2016.
17. Dr. Suresh Pabboju, GangadharaRaoKommu, “A Probabilistic Based Multi-label Classification Method Using Partial Information Method Using Partial Information” in Springer – Volume 2 Advances in Intelligent Systems and Computing Volume 338, ISBN 978-3-319, pp 27-34.

**15. Details of patents and income generated**

--NIL--

**16. Areas of consultancy and income generated**

--NIL--

**17. Faculty recharging strategies**

**2011-2012**



### **Workshops attended**

1. Dr. Suresh Pabboju, attended a 1-day Faculty development workshop on "Testing Concepts" conducted by Cognizant, Hyderabad on 30<sup>th</sup> March 2012.
2. K. GangadharaRao, attended a national level 1-day workshop on "Mobile and ubiquitous learning" conducted by C-DAC Hyderabad and SIT-JNTUH, Hyderabad on 3rd April 2012
3. K. Sugamya, attended a 2-day workshop on "Applications of Digital Image Processing" conducted by Department of Electronics and Communication Engineering, CBIT, During 17<sup>th</sup> to 18<sup>th</sup> February 2012.
4. T. Prathima, attended a 2-day workshop on "Applications of Digital Image Processing" conducted by Department of Electronics and Communication Engineering, CBIT, During 17<sup>th</sup> to 18<sup>th</sup> February 2012.
5. A Sirisha, attended a 2-day Faculty development program "Ripple 2011" conducted by Cognizant, Hyderabad during 21<sup>st</sup> to 22<sup>nd</sup> October 2011.
6. K. Radhika, attended a 2-day workshop on "Micro Processors and Micro Controllers" conducted by Department of CSE and Department of ECE, CBIT during 4<sup>th</sup> to 5<sup>th</sup> January 2012.
7. K. GangadharaRao, attended a 2-day workshop on "Cloud computing" conducted by Department of CSE, Vasavicollege of engineering, Hyderabad during 29<sup>th</sup> to 30<sup>th</sup> December 2011.
8. M. Trupthi, attended a 3-day workshop on "Web Technologies" conducted by IT dept., Vasavi College of Engineering during 21<sup>st</sup> to 23<sup>rd</sup> December 2011.
9. K. Swathi, attended a 3-day workshop on "Web Technologies" conducted by IT dept., Vasavi College of Engineering during 21<sup>st</sup> to 23<sup>rd</sup> December 2011.
10. A. Sirisha, attended a 2-day workshop on "Art of teaching" conducted by Enhance Edu at IIIT Hyderabad during 16<sup>th</sup> to 17<sup>th</sup> December 2011.
11. T. Prathima, attended a 2-day workshop on "Art of teaching" conducted by Enhance Education at IIIT Hyderabad during 16<sup>th</sup> to 17<sup>th</sup> December 2011.

### **STTP/ FDP attended**

1. K. Swathi, attended a Faculty Development Program conducted by Mahindra Satyam Learning World, Hyderabad during 21<sup>st</sup> to 29<sup>th</sup> June 2012.



2. A. Sirisha, attended a 1-week Faculty Development Program “Data Mining using Weka” conducted by AMS School of informatics and Department of CSE, Osmania University Hyderabad during 27th February to 2<sup>nd</sup> March 2012.
3. T. Prathima, attended a 1-week workshop on “Research Methodologies” conducted by R&D cell, JNTU, Hyderabad during 16<sup>th</sup> to 21<sup>st</sup> January 2012
4. Santhosh Voruganti attended one week FDP Program from 2<sup>nd</sup> to 7<sup>th</sup> January 2012 Conducted by CBIT
5. M. Trupthi, attended a 3-week refresher course on “Recent trends in web mining” conducted by ASC-UGC, JNTU Hyderabad during 21<sup>st</sup> November to 11<sup>th</sup> December 2011.
6. L. Keerthi, attended a 4-week Orientation course conducted by UGC Academic Staff College, JNTU Hyderabad during 16<sup>th</sup> November to 14<sup>th</sup> December 2011.
7. E. Rama Lakshmi, attended 4-week Orientation course conducted by UGC Academic Staff College, JNTU Hyderabad during 16<sup>th</sup> November to 14<sup>th</sup> December 2011.

## **2012-13**

### **Workshops attended**

1. Dr. Suresh Pabboju, attended a 1-day workshop for IEEE Hyderabad Section conference Organizers conducted by HCU on 23<sup>rd</sup> June 2013.
2. A. Sirisha and Keerthi L, attended a 1-day workshop on “Mobility Landscape” conducted by CTS, Hyderabad on 26<sup>th</sup> April 2013.
3. M. Trupthi and T. Prathima, attended a workshop on “Advanced Topics in Text and Web Mining” conducted by Enhance Edu, IIIT Hyderabad during 24<sup>th</sup> to 26<sup>th</sup> April 2013.
4. K. Suganya, Keerthi L, E. Ramalakshmi, KNVS. Sridevi and T. Prathima, attended a 2-day workshop on “Women in Science and Technology-Social Impact” conducted by Women Cell, CBIT, Hyderabad during 8<sup>th</sup> to 9<sup>th</sup> March 2013.
5. Santhosh Voruganti, attended a 3-day workshop on “Mobile Application Development based on Andriod” conducted by INFOSYS during 19<sup>th</sup> to 21<sup>st</sup> March 2013 at CBIT .
6. A. Sirisha, attended a 4-day workshop on “Data Analytics & Application” conducted by BITS-Pilani, GOA Campus during 26<sup>th</sup> Feb to 1<sup>st</sup> March 2013.



7. B. VeeraJyothi, attended a 4-day training program on “IBM Rational SEED for Quality Program (Rational Quality Manager & Rational Functional Tester)” conducted by IBM in CBIT, Hyderabad during 09<sup>th</sup> to 12<sup>th</sup> February 2013.
8. B. VeeraJyothi, attended a 4-day training program on “IBM SEED Program (Rational Software Architecture)” conducted by IBM in CBIT, Hyderabad during 21<sup>st</sup> to 24<sup>th</sup> January, 2013.
9. T. Prathima, attended a 2-day workshop on “Emerging Application Areas of Image Processing” conducted by CSE dept., MVSR College, Hyderabad during 17<sup>th</sup> to 18<sup>th</sup> December 2012.
10. Dr. Suresh Pabboju, attended a Workshop on “Software Quality & Testing” conducted by Osmania University, Hyderabad on 15<sup>th</sup> September 2012.
11. K. Radhika, attended a 2-day Workshop on “Heterogeneous Computing: Platforms, Tools and Applications” conducted by Dept. of ECE & Dept. of CSE, University College of Engineering, Osmania University, Hyderabad and AMD (India) during 31<sup>st</sup> August to 1<sup>st</sup> September 2012.
12. Dr. Suresh Pabboju, attended a Seminar on “MATLAB & Simulink for Engineering Education” conducted by Math works India Pvt. Ltd. on 31<sup>st</sup> August 2012.
13. K. Sugamya, Assoc. Prof., attended a 2-day workshop on “Recent Trends & Research Opportunities in Image Processing” conducted by Department of Computer Science Engineering, Vasavi College of Engineering during 24<sup>th</sup> to 25<sup>th</sup> August 2012.
14. E. Rama Lakshmi, attended a 2-day workshop on “Recent Trends & Research Opportunities in Image Processing” conducted by Department of Computer Science Engineering, Vasavi College of Engineering during 24<sup>th</sup> to 25<sup>th</sup> August 2012.

**STTP/ FDP attended**

1. A. Sirisha, attended a 3-week refresher course on “Applications of Rough Sets in Knowledge Discovery and Pattern Recognition” conducted by ASC-UGC, JNTU Hyderabad from 17<sup>th</sup> June to 06<sup>th</sup> July 2013.
2. KNVS Sridevi, attended 4-week Orientation course conducted by UGC Academic Staff College, JNTU Hyderabad during 10<sup>th</sup> June to 06<sup>th</sup> July 2013.
3. T. Prathima, attended 4-week Orientation course conducted by UGC Academic Staff College, JNTU Hyderabad during 10<sup>th</sup> June to 06<sup>th</sup> July 2013.



## **2013-14**

### **Workshops attended**

1. KNVS Sridevi attended a 3 day workshop on “Ethics in Governance”, organized by MHRD, Hyderabad from 25th to 27th June 2014.
2. E. Rama Lakshmi, attended a 2- day Hands-On workshop on “Virtualization and cloud computing”, 11th& 12th March 2014 organized by Dept. of CSE, CBIT..
3. M. Trupthi, E. Rama Lakshmi and KNVS Sridevi attended 1-day seminar on “Work-Life Balance: Women in Engineering” on 8th March 2014 organized by Women cell, CBIT.
4. T. Prathima has attended a 3-day certification programme on “Apache Hadoop Developer Training” organized by UNICON, in Hyderabad, during 8th-10th January 2014.
5. K. Sugamya and Dr K. Radhika, attended Phase I webinar on “NBA Workshop on Outcome Based Education & Accreditation” held at CBIT, training center of NBA under nodal centre, OUCE, Hyderabad on 3rd Feb 2014 and Phase II during 15<sup>th</sup> to 17th February 2014.
6. Dr.K.Radhika, E. Ramalakshmi and L. Keerthi, attended a 2-day workshop on “Wireless Networks and its Applications” conducted by Dept of ECE, CBIT during 14<sup>th</sup> to 15th February 2014.
7. K. Sugamya, E. Ramalakshmi and T. Prathima attended a 2-day workshop “Research Methodologies and Tools” conducted by Dept of CSE, CBIT, during 29<sup>th</sup> to 30th November 2013.
8. B. VeeraJyothi, attended a 2-day workshop on “National Workshop on Information Security”, conducted by Dept of CSE , Vasavi College of Engineering, Hyderabad during 4<sup>th</sup> to 5th October 2013.
9. Dr. K.Radhika, attended a 2-day national workshop on “Information security” organized by Vasavi College of Engineering during 4th to 5th October 2013
10. E. Ramalakshmi and Keerthi L, attended a 1-day workshop on “Information Management and Analytics” conducted by CTS, Hyderabad on 26th July 2013.
11. Dr. K.Radhika, attended a workshop on “Formulation of R&D Initiatives for Women Scientists and Technologists” organized by Engineering Staff College of India during 29th May 2014 to 1st June 2014 at ESCI, Gachibowli, Hyderabad.



12. Dr. K.Radhika, attended a 2-day workshop on “Women in Science and Technology-Societal Impact” held during 8th& 9th March 2013 organized by CBIT, under TEQIP-II.

### **STTP/ FDP attended**

1. K. Swathi, attended 4-week Orientation course conducted by UGC Academic Staff College, Osmania University, Hyderabad during 2nd June to 30th June 2014.
2. Dr. Suresh Pabboju attended one week workshop on “Management Capacity Enhancement Programme 2014(MCEP)”, organized by Indian Institute of Management Indore(IIM Indore), Madhya Pradesh from June 16th to 22nd, 2014.
3. K. Sugamya and T. Prathima attended a one week workshop on “Advances in image and video processing and applications using MATLAB” organized by Dept. of ECE, Sreenidhi Institute of Technology, Hyderabad during 7th to 14th April 2014.
4. Dr SmritiAgrawal, J. HanumanthaRao ,attended a one week Faculty Development Program conducted by CBIT-In House Training Centre, during 6th to 11th, January, 2014.
5. Dr. K.Radhika, attended NASSCOM a one week technical training the trainer programme on “Foundation Skills in IT-FSIT” organized during 19<sup>th</sup> to 26th August, 2013 by SPFU at JNTU-Hyderabad.
6. K.Swathi, Attended 3-week refresher course on Information Technology conducted by UGC Academic staff college, OU, Hyderabad, during 24th July to 14th Aug 2013.
7. SanthoshVoruganti attended one week FDP from 13th July to 18th July 2013 conducted by CBIT.

### **2014-15**

#### **Workshops attended**

1. Mr. V. Santhosh attended a 1-day Faculty Development program on Big Data organized by JP Morgan on 20<sup>th</sup> March, 2015.
2. J Hanumantharao , attended 1-day Faculty Development Program conducted by Accenture, Hyderabad on 27<sup>th</sup> January 2015.
3. K.Sugamya attended 1-day workshop on “Adobe Photoshop and CorelDraw”(APSCD) Organized by CBIT, Hyderabad on 20<sup>th</sup> Dec 2014.



4. K.GangadharaRao, attended a 3 day National Workshop on “Big Data Analytics” on 15th to 17th December 2014 at MJ College of Engineering and Technology and IEEE Computational Intelligence society, Hyderabad.
5. Dr. Suresh Pabboju and Dr. K. Radhika attended “International Conference on Computing and Communication Technologies (ICCCT-2014)”organized by Department of CSE, University College of Engineering, Osmania University, Hyderabad, Technically Co-Sponsored by IEEE Hyderabad Section, in association with Computer Society of India, Hyderabad Chapter, on 11<sup>th</sup> to 13<sup>th</sup>December 2014 at Novotel Convention Centre, Hyderabad, Technically co-sponsored by IEEE Hyderabad Section, CSI Hyderabad Section and ASL(DRDO).
6. Dr. Suresh Pabboju attended Pre-Conference tutorial on “Big Data Analytics” in the International Conference on Computing and Communication Technologies (ICCCT-2014) organized by Department of CSE, University College of Engineering, Osmania University, Hyderabad, Technically Co-Sponsored by IEEE Hyderabad Section, in association with Computer Society of India, Hyderabad Chapter, on 11<sup>th</sup> to 13<sup>th</sup> December 2014 at Novotel Convention Centre, Hyderabad, Technically co-sponsored by IEEE Hyderabad Section, CSI Hyderabad Section and ASL(DRDO).
7. Dr. K. Radhika attended Pre-Conference tutorial on “Machine Learning” in the International Conference on Computing and Communication Technologies (ICCCT-2014) organized by Department of CSE, University College of Engineering, Osmania University, Hyderabad, Technically Co-Sponsored by IEEE Hyderabad Section, in association with Computer Society of India, Hyderabad Chapter, on 11<sup>th</sup> to 13<sup>th</sup>December 2014 at Novotel Convention Centre, Hyderabad. Technically co-sponsored by IEEE Hyderabad Section, CSI Hyderabad Section and ASL(DRDO).
8. Dr.SmritiAgrawal attended Pre-Conference tutorial on “Security in Cloud Computing” in the International Conference on Computing and Communication Technologies (ICCCT-2014) organized by Department of CSE, University College of Engineering, Osmania University, Hyderabad, Technically Co-Sponsored by IEEE Hyderabad Section, in association with Computer Society of India, Hyderabad Chapter, on 11<sup>th</sup> to 13<sup>th</sup>December 2014 at Novotel Convention Centre, Hyderabad.
9. A. Sirisha, E. RamaLakshmi, L. Keerthi and Mr. K. Gangadhara Rao attended 3-day National workshop on “Big Data Analytics”, held from 15<sup>th</sup> Dec 2014 to 17<sup>th</sup> Dec 2014, organized by Dept. of Information



Technology, MJCET in association with IEEE CIS Hyderabad section and ACM.

10. E. Rama Lakshmi, T. Prathima and KNVS Sridevi attended 2-day workshop “Next Generation Devices and Computing” conducted by Dept. of CSE, CBIT, Hyderabad during 28<sup>th</sup> & 29<sup>th</sup> of November 2014.
11. T. Prathima attended pre-conference workshop of First International Conference on Rough sets and Knowledge Technologies – 2014 (ICRSKT – 2014) conducted by Dept. of CSE, JNTUH in collaboration with Indian Society for Rough sets on 9<sup>th</sup> November 2014.
12. Dr. Suresh Pabboju attended a 3-day Workshop on “Internal Quality Assurance Mechanisms” organized by Teaching Learning Centre, IIT Madras for the faculty members of TEQIP funded institutions held during 28<sup>th</sup> to 30<sup>th</sup> October, 2014.
13. J Hanumantha Rao , attended a 3-day Faculty Development Program on “English for effective communication” conducted by Dept. of Maths & Humanities, CBIT, Hyderabad during 5<sup>th</sup> to 7<sup>th</sup> August 2014.

#### **STTP/ FDP attended**

1. E. Rama Lakshmi, attended 2-week faculty development Program on “ Mobile and Cloud Computing” organized by Department of CSE,CBIT, Hyderabad during 29<sup>th</sup> December 2014 to 10<sup>th</sup> January 2015.
2. K. Sugamy and T. Prathima, attended a 5-day workshop on “Image Processing & its applications” organized by Dept. of CSE, MGIT, Hyderabad during 15<sup>th</sup> to 19<sup>th</sup> December 2014.
3. Dr. K. Radhika and M Trupthi, attended 2-week summer school in Natural Language Processing organized in IIIT, Hyderabad during 28<sup>th</sup> June to 15<sup>th</sup> July 2014.

#### **2015-16**

##### **Workshops attended**

1. SanthoshVoruganti attended a 2-day workshop on “Software Defined Networks Key to Cloud Computing” on 25<sup>th</sup>& 26<sup>th</sup> September 2015 organized by IDRBT Hyderabad.
2. K. Sugamy , E.Ramalakshmi, T. Prathima attended a 2-day workshop on “ MATLAB for Engineering Applications”, organized by Dept. of MCA, CBIT, during 11<sup>th</sup>&12<sup>th</sup> September 2015, Under TEQIP-II, Hyderabad.





3. K.Radhika, attended a 3-day workshop on “Best Practices in Teaching-Learning Methods and NBA Accreditation Process” organized by Engineering Staff College of India, Hyderabad, during 24th to 26th August 2015.
4. J Hanumantha Rao , attended 3-day Faculty Development Program conducted by In-house Training Centre, CBIT, Hyderabad during 5<sup>th</sup> to 7<sup>th</sup> August 2015.
5. M. Trupthi, attended a 2-day National Workshop on “Intelligence and Security Informatics” organized by Dept. of CSE supported by TEQIP, from 24th to 25th July 2015.
6. Ms. T. Prathima, Assistant Professor Participated workshop on Image and Speech Processing held during 12<sup>th</sup> December 2015 at the International Institute of Information Technology Hyderabad.

**STTP/ FDP attended**

1. T. Prathima and K.Swathi attended 6-Week training on “Train the trainer Program for the University ” organized by Pega Systems, Hyderabad, during December 2015.
2. Dr. Suresh Pabboju Participated in one week SPFU(TS)initiated TEQIP II sponsored Training on “Cloud Computing and Data Analytics” conducted at University college of Engineering , Osmania University, Hyderabad from 08-12-February 2016.
3. Dr. Suresh Pabboju Attended a Training program on “ Cloud Computing and Data Analytics” 08<sup>th</sup>-12<sup>th</sup> February 2016 organized by Engineering Staff College of India, Hyderabad
4. Ms. K. Sugamya, Associate Professor Participated in the FDP on “Recent trends in Digital & Video Processing” organized by Dept.of ECE, MGIT during 22<sup>nd</sup> - 27<sup>th</sup> February, 2016.
5. Ms. K. Sugamya, Associate Professor Participated in the Faculty Development Programme on “Management Capacity Enhancement Programme for Administrators” Organized by IIM Lucknow at Noida campus Under TEQIP-II, held during 05-09 October, 2015.
6. Dr. K. Radhika attended ‘IWN’s Women’s Leadership Conclave’ on the 5th of April, 2016 at TCS Non SEZ Auditorium (Opposite DLF) Hyderabad organized by Confederation of Indian Industry and Indian Women Network-TS&AP.
7. Dr. K. Radhika attended an “Interactive workshop” with the leadership team of CISCO Network Academy and TASK on Tuesday, 28th June, 2016.
8. Dr. K. Radhika Attended a conference on “Relevance of Emerging Technologies in Education” organized by NecX, DynEd and Oracle University on 21<sup>st</sup> June 2016.



9. Dr. K. Radhika Participated in the Principal's meet organized by Infosys on 28<sup>th</sup> March 2016 at Infosys, Hyderabad Development Centre with a motive to strengthen the Industry - Academia Relationship. Telangana, Andhra Pradesh, Odisha, and WB on Monday, 28th March 2016 .
10. Dr. Smriti Agrawal, Assoc Professor, Participated in Faculty Development Program on, "Embedded Systems", sponsored by SPFU(TS) initiated TEQIP II organized by ESCI, The Institution of Engineers (India), from 28<sup>th</sup> March to 01<sup>st</sup> April, 2016.
11. Dr. Smriti Agrawal, Assoc Professor, Attended Faculty Development Program on "Data Science", at Cognizant India Pvt. Ltd. on 30th June, 2016.
12. Ms. M. Trupthi, Ms. KNVS Sridevi, Ms. K. Swathi attended a National Level Faculty Development Program on "Machine Learning", during April 11th -16th, 2016, conducted by Dept. of CSE, JNTUH, Hyderabad.
13. Ms. T. Prathima Ms. K.Swathi, Asst. Professor, attended a 2-week training on Certified Senior System Architect Course during 13.06.2016 to 27.06.2016 organised by Pega Systems, Hyderabad.
14. Ms. T. Prathima, Assistant Professor Participated in the FDP on "Recent trends in Digital & Video Processing" organized by Dept. of ECE, MGIT during 22<sup>nd</sup> - 27<sup>th</sup> February, 2016.
15. Ms. B.Veera Jyothi, Asst. Professor, attended one week faculty development program on "Big Data and Internet of Things" held at GNITS Hyderabad during February 2016
16. Mr. K. Gangadhara Rao, Asst. Professor, attended a 10 days DST Sponsored Workshop on Big Data Analytics from 1<sup>st</sup> to 10<sup>th</sup> June 2016 at madanapalle Institute of technology, Chittoor Dist, AP, India.
17. Mr. K. Gangadhara Rao, Ms. Kanchan Tarwani Asst. Professor, Attended a six day workshop on deep learning for visual computing from 20<sup>th</sup> June to 25<sup>th</sup> June at IIT Hyderabad, Telangana, India.
18. Mr. Hanumantha Rao Jalla, Asst. Professor, Attended Summer School on "Recent Advances in Privacy Preserving Data Mining-2016" at NIT Goa During May 23-28, 2016.

### **18. Student projects**

- percentage of students who have done in-house projects including inter-departmental : 90%
- percentage of students doing projects in collaboration with industries / institutes : 10%



**19. Awards / recognitions received at the national and international level by**

- Faculty
- Doctoral / post doctoral fellows
- Students

**Awards received by Students:**

**2011-12**

**Osmania University Ranks:**

S.No	Name of the Student	H.T.No	Rank
1	M NivedithaReddy	02085016	I
2	K Pranathi	02085019	II
3	K BhagyaSree	02085003	V
4	B MaliniAishwarya	02085013	VII
5	T Nikhila Reddy	02085014	X

MrPranavKulkarni (4/4 IT) was selected for Internship at **Microsoft**

**2012-13**

**Osmania University Ranks:**

S.No	Name of the Student	H.T.No	Rank
1	GouthamiReddygari	02095010	II
2	NattiBhuvanasai	02095007	III
3	Abdul Shabbir	02085028	IV

MrCh.Sreekar Reddy (160110737054) of 3/4 IT was selected for Internship at **Microsoft**.

Ms.Hemalatha (160110737008) of 3/4 IT was selected as the **Google Ambassador** for the academic year 2012-13.

**Papers Published in Journals :**

- N.ShaniaRasheed and V.Monica of 3/4 IT published a paper on “Red Taction” in International Journal of Research in Engineering and Technology (IJRET), in Vol 1, issue 3 in Nov’12.



- Mr.Srinu of 4/4 IT Presented a paper on “Recent advances and trends in Image Retrieval using Data Mining” in ICMSCE2012, September.

### 2013-14

#### Osmania University Ranks:

S.No	Name of the Student	H.T.No	Rank
1	RajarapuSrileka	1601-09-737-025	II
2	NehaKiron	1601-09-737-014	IV

- MrJohendraJaswanth(160111737046),JosephKoushikReddy(160111737047), Shradha B(160111737024),PhaniTejasri v(160111737018) of 3/4 IT were selected for Internship at **Microsoft**.

### 2014-15

#### Osmania University Ranks:

S.No	Name of the Student	H.T.No	Rank
1	K Tejaswini	160110737031	II
2	T RohitReddy	160110737044	IV

- E.Devika(1601-12-737-005),Divyapabba(1601-12-737-06),ShravaniSagarT(1601-12-737-024),S.Ravali(1601-12-737-021) and K.Lavanya(1601-12-737-012) of 3/4 IT Completed the Microsoft Technology Associate Certification in Networking Fundamentals and Database Fundamentals during March 2015.
- Manogna K (1601-12-737-014),Divyapabba(1601-12-737-006) were Presented a paper on “Big data Analytics” in Felicity-2K15 on 21<sup>st</sup> Jan 2015 and won 1st prize at IIIT,Hyderabad
- E.Devika (1601-12-737-005),ShravaniSagarT (1601-12-737-024),SudeepSabnavis (1601-12-737-061) were Presented a paper on “3D Internet” in Technistea on 21<sup>st</sup>-22<sup>nd</sup> Oct 2014 and won 2nd prize at ISTE CLUB, CBIT,Hyderabad.

### 2015-16

#### Osmania University Ranks:

S.No	Name of the Student	H.T.No	Rank
1	RaghupatruniSindhuja	160111737025	VII



**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

**National:**

<b>Year</b>	<b>Seminars/Conferences/Workshops organized</b>	<b>Source of funding</b>
2011-12	<ul style="list-style-type: none"> <li>•2-day National workshop on “Research Opportunities in Computer Science and Information Technology” in CBIT during 27-28 January 2012.</li> </ul>	CBIT
2012-13	<ul style="list-style-type: none"> <li>•2-day National workshop on “Research Opportunities in Computer Science and Information Technology-2013” in CBIT during 06-07 February 2013.</li> <li>•2-day National Conference on “Recent Trends in Information Technology 2013 (NCRTIT’13): in CBIT during 22nd&amp; 23rd</li> </ul>	CBIT
2013-14	<ul style="list-style-type: none"> <li>•one-day workshop on “Work-Life Balance: Women in Engineering”, on 8th March 2014</li> </ul>	TEQIP-II
2014-15	<ul style="list-style-type: none"> <li>•One Week Hands-on Technical Training Programme for supporting staff, from 7th July - 12th July, 2014</li> </ul>	TEQIP-II
2015-16	<ul style="list-style-type: none"> <li>•The departments of Information Technology, CSE and MCA in association with NIT-Warangal and E&amp; ICT Academy (Under Ministry of HRD) jointly organized 10day FDP on Data Warehousing and Business Intelligence at CBIT campus, Hyderabad during 25th April to 5th May 2016.</li> <li>•The departments of Information Technology, and CSE organized Project Oriented Training Camp “Swecha Summer Camp 2016” at CBIT campus, Hyderabad during 26th May to 9th June 2016.</li> <li>•The department of Information Technology organized a Two day workshop during 14th - 15th October 2015 on “Information Security: Tools and Techniques</li> </ul>	TEQIP-II



**International:** -- NIL--

**21. Student profile course-wise:**  
**2011-12**

Name of the Course (refer question no. 2)	Applications received	Selected		Pass percentage	
		*M	*F	M	F
Probability and Random Processes (BIT 251)	62+1+12 (58+8)	37	38	33.5	34.5
Entrepreneurship (458)	62+7+6	43	32	57.3	42.7
Environmental Studies (CE 459)	62+1+12	37	38	49.3	50.7
Electrical Circuits and Machines (EE 223)	62+1+12	37	38	30.3	31.1
Managerial Economics (CM 321)	57+1+6	30	34	46.9	53.1

**2012-13**

Name of the Course (refer question no. 2)	Applications received	Enrolled		Pass percentage	
		*M	*F	M	F
Probability and Random Processes (BIT 251)	64+12	31	45	38.1	55.3
Entrepreneurship (458)	55+1+6	28	34	45.2	54.8
Environmental Studies (CE 459)	64+12	31	45	38.1	55.3
Electrical Circuits and Machines (EE 223)	64+12	31	45	31.7	46.0
Managerial Economics (CM 321)	59+2+10	34	37	47.2	51.4

**2013-14**

Name of the Course (refer question no. 2)	Applications received	Enrolled		Pass percentage	
		*M	*F	M	F
Probability and Random Processes (BIT 251)	60+1+12	34	39	40.2	46.1



Entrepreneurship (ME 411)	57+1+12	33	37	47.1	52.9
Environmental Studies (CE 459)	60+1+12	34	39	45.9	52.7
Electrical Circuits and Machines (EE 223)	60+1+12	34	39	37.6	43.2
Managerial Economics (CM 321)	62+2+12	31	45	37.6	54.5

**2014-15**

Name of the Course (refer question no. 2)	Applications received	Enrolled		Pass percentage	
		*M	*F	M	F
Basic Electronics (EC 215)	60+1+11	37	35	45.0	42.5
Managerial Economics & Accountancy (MB 321)	60+11	36	35	50.0	48.6
Managerial Economics & Accountancy (MB 214)	59+1+10	33	37	45.8	51.4
Basic Electronics Lab (EC 218)	60+1+11	37	35	49.2	46.6
Probability and Random Processes (MT 222)	60+1+11	37	35	45.0	42.5
Soft Skills and Employability Enhancement (EG 221)	60+1+11	37	35	Nil	Nil
Human Values and Professional Ethics (CE 444)	60+12	28	44	Nil	Nil
Intellectual Property Rights (LA 473)(E-II)	60+12	28	44	38.9	61.1
Entrepreneurship (ME 411)	60+12	28	44	38.9	61.1



## 2015-16

Name of the Course (refer question no. 2)	Applications received	Enrolled		Pass percentage	
		*M	*F	M	F
Basic Electronics (EC 215)	60+1+11	37	35	47.8	45.2
Managerial Economics & Accountancy (MB 214)	59+1+10	33	37	45.1	50.6
Basic Electronics Lab (EC 218)	60+1+11	37	35	50.7	47.9
Probability and Random Processes (MT 222)	60+1+11	37	35	45.0	42.5
Soft Skills and Employability Enhancement (EG 221)	60+1+11	37	35	50.7	47.9
Human Values and Professional Ethics (CE 444)	60+12	28	44	38.9	61.1
Intellectual Property Rights (LA 473)(E-II)	60+12	28	44	38.9	61.1
Entrepreneurship(ME 411)	60+12	28	44	38.9	61.1

## 22. Diversity of Students

Year	Name of the Course (refer question no. 2)	% of students from the same college/state	% of students from other States	% of students from other countries
2011-12	B. E.	91.6	8.33	NIL
2012-13	B. E.	95.12	4.83	NIL
2013-14	B. E.	100	NIL	NIL
	M.Tech	100	NIL	NIL
2014-15	B. E.	90.3	9.67	NIL
	M.Tech	100	NIL	NIL
2015-16	B. E.	100	NIL	NIL
	M.Tech	100	NIL	NIL





**23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**

**2011-12**

S.No	Name of the Student	Roll Nos.	Exam	Rank / Percentile / Marks	Year
1.	D.Santhosh Kumar	02085055	GATE	44	2011
2.	V. Amulya	02095002	CAT	92	2011
3.	Juliet Vishwanathan	02095027	GRE	324/340	2011
4.	Abdul Shabbir	02095028	GRE	323/340	2011
5.	DVSK Chaitanya	02095036	GRE	323/340	2011
6.	P. Siva Sai	02095054	GRE	322/340	2011
7.					

**2012-13**

S.No	Name of the Student	Roll Nos.	Exam	Rank / Percentile / Marks	Year
1	K.Supraj	160109737057	GRE	303/340	2012
2	S.Anudeep Reddy	160109737033	GRE	301/340	2012
3	V.Pranuthi	160109737017	GRE	297/340	2012
4	B.Anusha	160109737003	GRE	308/340	2012
5	G.Meghana	160109737011	GRE	300/340	2012
6	KishreBabani	160109737039	GRE	300/340	2012
7	Ratanakar Reddy K	160109737046	CAT	97.16	2012

**2013-14**

S.No	Name of the Student	Roll Nos.	Exam	Rank / Percentile / Marks	Year
1.	Rohit Reddy T	160110737044	GRE	318/340	2013
2.	Hemalatha	160110737008	GRE	311/340	2013
3.	G.Sravanthi	160110737023	GRE	311/340	2013
4.	Swethach	160110737030	GRE	308/340	2013
5.	Reethu	160110737018	GRE	308/340	2013
6.	Monika	160110737009	GRE	309/340	2013



7.	Srikar A	160110737055	GRE	303/340	2013
8.	Shania	160110737019	GRE	302/340	2013
9.	Rohit Reddy T	160110737044	TOEFL	109	2013
10.	Swethach	160110737030	TOEFL	107	2013

### 2014-15

S.No	Name of the Student	Roll Nos.	Exam	Rank / Percentile / Marks	Year
1.	KAVYA	160111737005	GRE	300/340	2014
2.	SAI DIVYA THOTA	160111737023	GRE	310/340	2014
3.	ARIKAPUDI HARITHA	160111737004	GRE	304/340	2014
4.	ABHIRAM REDDY	160111737038	GRE	305/340	2014
5.	M. SAI KRISHNA	160111737055	GRE	308/340	2014

### 2015-16

S.No	Name of the Student	Roll Nos.	Exam	Rank / Percentile / Marks	Year
1.	AKHILA	160112737001	GRE	312/340	2015
2.	ANUHYA	160112737003	GRE	299/340	2015
3.	KEERTHI	160112737008	GRE	325/340	2015
4.	NEHA	160112737017	GRE	312/340	2015
5.	SHRUTHI	160112737025	GRE	319/340	2015
6.	TEJASWINI	160112737031	GRE	304/340	2015
7.	VACHAN	160112737049	GRE	314/340	2015
8.	VIRAAT	160112737062	GRE	327/340	2015

### 24. Student progression

Student Progression	Percentage against enrolled(%)				
	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	-	4.68-	21.42	4.05	
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-



<b>Ph.D. to Post-Doctoral</b>	-	-	-	-	-
<b>Employed</b>					
• <b>Campus Selection</b>	78.6	81.2	64.28	86.1	85.5
• <b>Other than campus recruitment</b>	-	-	-	-	-
<b>Entrepreneurs</b>	-	-	-	-	-

## 25. Diversity of staff

Percentage of faculty who are graduates					
	2011-12	2012-13	2013-14	2014-15	2015-16
of the same parent university	02	02	02	03	02
from other universities within the State	10	10	11	11	13
from other universities from other States	0	0	01	01	02

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : 01

## 27. Present details about infrastructural facilities

Particulars	Number	Area	Total
Class Rooms	03+1	area of each room (4): 68.4sq.mts	307.8
Laboratories	04	68.4 area in sq.mts	273.6
Seminar Hall	01	79.2sq.mts	79.2
Staff Cabins	08	area of each cabin :9.66sq.mts	77.28
Dept. Library	01	area in sq.mts:35.55	35.55
Head Chamber	01	area in sq.mts:35.55	35.55
<b>Total Area</b>			808.98
<b>This does not include the following:</b>			
Common Labs shared with ECE Dept.			

### a. Library

Total No. of Books available: 135

Main and Mini Project reports of the last 5 academic years



- b. Internet facilities for staff and students : Yes  
 c. Total number of class rooms : 03+01  
 d. Class rooms with ICT facility : Yes  
 Name of the Internet provider : Poiner Online Limited  
 Available bandwidth : 155 Mbps  
 Access speed : 100 Mbps  
 Availability of Internet in an exclusive lab: Available in all labs  
 Availability in most computing labs : YES, Available  
 Availability in faculty rooms : YES  
 Available Institute's own e-mail facility to : YES  
 Faculty/student security/privacy to e-mail/Internet users : YES

e. Students' laboratories

**Name of the Lab: ITLAB-1**

**List of Equipment**

Sl. No	Item Description	Quantity
I. Hardware		
1	HP Server: Intel Quad Core Xeon E 5410 Processor, 2x6 MB Cache, 8 GB DDR 2, 667 Mhz ECC RAM, 3x 146 GB Hard Disk (SAS), RAID 5 Controller, 17" CRT Monitor, DVD-RW Drive 48x Max speed, USB to PS/2 dongle Cable, Integrated Dual Broadcom Gigabit Network Card, Chasis- Tower Orientation for Poweredge 2900, USB Keyboard, Optic Mouse Scroll, 930W Redundant Power Supply	01
2	Dell PowerEdge T610 Intel2S Server: Inter Quad Core E5506 Xeon Processor, TPM Mother Board for T610, 2.13GHz, 4MB Cache, 16 GB 1333 Mhz RDIMMs, 4x 300 GB HDD (SAS), RAID 5 Controller, 19" LCD Flat Monitor, DVD-RW Drive 16x Max speed, 5709C Dual port Gigabit Ethernet, USB Keyboard, Optic Mouse Scroll, 570W Redundant Power Supply	01
3	DELL optiplex 390 Desktop with Intel core i3-550, 3.2GHz, 4MB Cache, 2GB DDR 3 RAM/320GB SATA HDD, Keyboard, Optical Mouse, 18.5" TFT Monitor	21
4	DELL optiplex 390 Desktop with Intel core i3-550, 3.2GHz, 4MB Cache, 2GB DDR 3 RAM/320GB SATA HDD, Keyboard, Optical Mouse, 18.5" TFT Monitor, DVD-RW.	06
5	IBM 3.0 GHZ, 512 MB RAM, 80 GB HDD @ 7200 rpm, 915 GV chipset, 10/100 Mbps Ethernet Card, 17" Color Monitor, 1.44 MB FDD, CD-Drive 52x.	03
6	HP Laserjet 1020 plus Printer	01
7	TVSE 345 Dot Matrix Printer	01
II. Network Accessories and Peripherals		
1	24 Port Switch D-Link	01
2	16 Port D-Link Switch	02
3	24 Port Jack Panel	02



4	6U Wall Mounted Rack	01
<b>III. Electrical Equipment</b>		
1	ITL Servo 5 KVA Stabilizers	02
2	Air Conditioners	02
3	UPS 10KV – Cyber	01
<b>IV. Softwares</b>		
1	Operating Systems : Windows 7/8; Fedora 8/Linux	
2	Languages : C, C++, JDK 1.6	
3	Applications : Putty , Ms Office 2010	

### Name of the Lab: ITLAB-2

#### *List of Equipment*

Sl. No	Item Description	Quantity
<b>I. Hardware</b>		
a.	HP i7 processor 8GB RAM, 1 TB Hard Disk	10
b.	DELL optiplex 980 Desktop with Intel core i3-550, 3.2GHz, 4MB Cache, Intel Q57 Express Chipset motherboard, 2GB DDR 3 RAM/320GB HDD, Keyboard, Optical Mouse, 18.5" TFT Monitor	14
c.	DELL optiplex 980 Desktop with Intel core i3-550, 3.2GHz, 4MB Cache, Intel Q57 Express Chipset motherboard, 2GB DDR 3 RAM/320GB HDD, Keyboard, Optical Mouse, 18.5" TFT Monitor, 16x DVD –RW	06
d.	LENOVO Think Center: Intel Core 2 Duo 2.66 GHz Processor 3 MB L2 Cache Memory, 800 MHz FSB Intel G31 Motherboard/2 GB DDR2 667 MHz RAM 160 GB SATA Hard Disk Drive 7200 rpm Onboard 100/1000 Mbps Gigabit LAN Lenovo 17" TFT Monitor/ DVD RW Intel Graphic Media Accelerator 3100	07
e.	HP Laserjet 1020 plus Printer (01 printer for staff)	02
f.	TVSE 80 Col Dot Matrix Printer	01
<b>II. Network Accessories and Peripherals</b>		
a.	24 Port Switch D-Link	01
b.	16 Port D-Link Switch	01
c.	24 Port Jack Panel	02
d.	6U Wall Mounted Rack	01
<b>III. Electrical Equipment</b>		
a.	ITL Servo 5 KVA Stabilizers	02
b.	Air Conditioners	01
c.	UPS 10 KV- CONSUL	01
<b>IV. Softwares</b>		



a.	<b>Operating Systems</b> : Windows 2008 Server, Windows 7
b.	<b>RDBMS</b> : Oracle 11g Server and Client;
c.	<b>Languages</b> : Visual Studio 2008, JDK 1.7
d.	<b>Applications</b> : Rational Rose, Putty, Ms Office 2007, Jboss 1.1 Server, Eclipse IDE for Java EE Developers, Apache Tomcat 7.0, BDK 1.1, NetBeans IDE 7.1, MYSQL 5.5

**Name of the Lab: ITLab-3 (M.Tech Lab)**

*List of Equipment*

Sl. No	Item Description	Quantity
<b>I. Hardware</b>		
a.	HP i7 processor 8GB RAM, 1 TB Hard Disk	18
b.	HP Laptop	01
c.	HP Scanner Jet G3010	01
d.	LCD Project	01
e.	HP LaserJet 1018	01
f.	HP Laserjet 1020 plus Printer (Head Office)	01
<b>II. Network Accessories and Peripherals</b>		
a.	24 Port Switch D-Link	01
b.	24 Port Jack Panel	02
<b>III. Electrical Equipment</b>		
a.	Air Conditioners	01
b.	UPS 10KV – Cyber	01
<b>IV. Softwares</b>		
a.	Operating Systems : Windows XP; Fedora 8	
b.	Languages : C, C++, Java	
c.	Application Tools : Putty , Ms Office	

**Name of the Lab: ITLab-4**

*List of Equipment*

Sl. No	Item Description	Quantity
<b>I. Hardware</b>		
i.	HP i7 processor 8GB RAM, 1 TB Hard Disk	32
ii.	HP Scanner Jet G3010	01
iii.	LCD Project	01



iv.	HP LaserJet 1018	01
v.	HP Laserjet 1020 plus Printer (Head Office)	01
<b>II. Network Accessories and Peripherals</b>		
i.	24 Port Switch D-Link	01
ii.	24 Port Jack Panel	02
<b>III. Electrical Equipment</b>		
i.	Air Conditioners	01
ii.	UPS 10KV – Cyber	01
<b>IV. Softwares</b>		
i.	Operating Systems : Windows XP; Fedora 8	
ii.	Languages : C, C++, Java	
iii.	Application Tools : Putty , Ms Office	

f. Research laboratories

--NIL--

**28. Number of students of the department getting financial assistance from College.**

Year	Programme	Financial Assistance	Total no of Students
2011-12	B.E.	-	Nil
2012-13	B.E.	-	Nil
2013-14	B.E.	-	Nil
	M.Tech	-	Nil
		TEQIP	2
2014-15	B.E.	-	Nil
	M.Tech	-	Nil
		TEQIP	4
2015-16	B.E.	-	Nil
	M.Tech	TEQIP	3

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

The new PG program in M.Tech (Computer Networks and Information Security) was started in the year 2013-14 offered by the department of Information Technology.



A need assessment exercise was undertaken by the department by means of surveys and opinion from various stakeholders including academicians, employers, subject experts, faculty and staff of the department, parents and graduating students was collected.

From the survey, it is found that this specialized PG program in computer networks and information security is of increasing importance and offers a world of exciting career opportunities.

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, faculty members are also part of board of studies and they are actively involved in updating the syllabi.

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes, student feedback on staff is taken on regular basis. The department considers student feedback as one of the evidences for teaching-learning evaluation. However, other important factors such as review of what students have learned (as evidenced in exam performance), teacher's experience in teaching the course and feedback from past students of the course are also considered for evaluating our courses.

- c. alumni and employers on the programmes and what is the response of the department to the same?

Placement coordinator collects feedback from prospective employers. The feedback of employers is given due importance. Employers are also part of Board of Studies and their suggestions are well taken in curriculum development.

**31. List the distinguished alumni of the department (maximum 10)**

S.No.	Name of the Alumuni	Status
1	Jhansi Munukoti	Co- Founder , Kala Prayas (2012 – Till date ) , A Passionate Art Network. Record Holder: Limca Book of World Record'16 ,World's Largest Maze Drawing by an Indian ( 320 SqFt). Works at Microsoft India





		Development Center, Gachibowli, Hyderabad
2	Mahesh Sale	Director at <u>MAHA ELECTRONICS PVT LTD,Hyd.</u> Founder VM Technologies,Hyderabad
3	UdbhavAnandPartner	Founder <u>Think Digital</u> , Head - Product Development at <u>Think Tankers Innovative Solutions</u>
4	BalajiBharath	Co- Founder,101 Basics, Hyderabad
5	ManasaInumpudi	MBA Candidate at Indian School of Business <u>Hyderabad</u> , Senor Applications Engineer, Oracle
6	VarunPendyala	Works in J.P.MorgamChase,Huderabad Former Delegate at Vision India Foundation, Former Intern at Foundation for Democratic Reforms
7	HemaVoraboina	Universal Instruments Corporation,Newyork,US Former Google Ambassador
8	BhargavTheertham	Oracle Database Management Specialist, Company- Dell Perot Systems / CVS Pharmacy
9	M.Srikanth	System Engineer, Amazon.com.
10	Palak Jain	Working at Peak6 Investments LP in Chicago IL (USA).

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

**2011-12**

<b>Type of programme</b>	<b>Date-Month-Year</b>	<b>Topic</b>	<b>ResourcePerson</b>
Seminar	15.10.2011	Employes First Customers Second (EFCS)	Sri VikasArora, HCL Technologies
Seminar	21.07.2011	Cloud Computing	CTS
Seminar	21.07.2011	Business Etiquitte	Infosys
Guest	24.10.2011	Software	Dr. Jonas



Lecture		Development Debian Operating Systems	Smedegaard
Guest Lecture	09/02/12	Advanced Storage Arrays and Importance of VHD's fore Tomorrows Cloud and Virtualization	Mr. Balakrishna Prasad
Guest Lecture	08/02/12	Latest Research Trends and Projects in Image Processing and other related Computer Science or It domains	Dr. Surya PrakashKompelly

### 2012-13

Year	Type of programme	Date-Month-Year	Topic	ResourcePerson
2012-13	Workshop	6-02-2013 & 7-02-2013	Research Opportunities in Computer Science and Information Technology	1.Dr.Sameen Fathima 2.Dr.Vijaya Kumari 3.Dr.Geetha Kumari 4.Dr.C.Krishna Mohan 5.Dr.Rajeev Wankar
	Workshop	09-03-2013	Champion Workshop	Mr.Shakir



### 2013-14

Type of programme	Date-Month-Year	Topic	Resource Person
Guest Lecture	04-06-2014	Programming The Mind	Prof.R.Salaria
Guest Lecture	15-03-2014	What after graduation-MS/MBA/MTech?	Mr P. Saikrishna ,JP Morgan and Chase Ms P Sadhana ,Verizon Mr K Rathnakar Reddy, Delloite Mr Jayashankar, Pega systems
Guest Lecture	15-03-2014	Placement Preparation-How and From When	Ms I Manasa ,Oracle Mr M Susheeth ,Wells Fargo Mr P Ravi ,Pega Systems Mr DVSK Chaitanya ,JP Morgan and Chase
Seminar	04-03-2014	Young Leaders Programme	Ms.Shivani Chopra
Guest Lecture	21-12-2013	Choices: Are You making YOURS	Ms. Ajanta
Guest Lecture	20-09-2013	Collaboration of Machine & Mission for the technological development of nation	Sri.M.SuryaNaranayana Murthy
Guest Lecture	24-03-2014	Out Reach Programme	Team from IIT Madras

### 2014-15

--Nil--

### 2015-16

Type of programme	Date-Month-Year	Topic	Resource Person
Guest Lecture	29-01-2016	Fault Tolerant Systems	Ms.K.Prafulla



Guest Lecture	30-09-2015	Data Analytics for Security	Prof.ChittaranjanHota
Workshop	14-10-2015 & 15-10-2015	Information Security: Tools and Techniques	1.Mr.Balaji Bharath Kumar 2.Dr.V.Radha 3.Prof.V.Ravi 4.Prof.Srinadhan Kannan 5.Prof.S.Ramachandran

**33. List the teaching methods adopted by the faculty for different programmes.**

- Pictorial/video presentation of the concepts, where-ever possible, using LCD projectors
- Group Discussions
- Giving demonstrations of corresponding software installations and application development while explaining the related topic/concept.
- Making the NPTEL content (videos and other content) available for the easy access of the students through the Institute web site (link for library)
- Arranging the guest lectures by industry experts, on the topics being taught in the class
- Conducting tutorial classes
- Encouraging the students for asking doubts in the class and off the class
- General motivation for attentive listening

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department monitors program outcomes(POs) and program specific outcomes (PSOs)by consolidating the attainment of course outcomes of all the courses offered to the students during their graduation.

The following is the process adopted for computing the attainment of Course Outcomes:

90% weightage is given for Direct assessment and 10% weightage for Indirect assessment

**i) Direct Assessment:**

**Class Internal Evaluation (CIE):**

CIE forms 25% of the Direct Assessment, which includes Internal marks (20%) and assignments (5%).



### **Semester End Examination**

The remaining 75% of direct assessment is through End Examination marks secured by students.

#### **ii) Indirect Attainment:**

Indirect attainment is computed from the feedback.

25% CO attainment through CIE and 75% CO attainment through SEE are added and 90% of the entire attainment is calculated. The 90% of the direct attainment and 10% of indirect attainment is the as individual CO attainments for the specific course under consideration.

The average attainment of all the courses for each PO and PSO are computed and they are averaged for obtaining final PO and PSO attainment.

### **3.5 Highlight the participation of students and faculty in extension activities.**

- Faculty and students of IT department are participating in NSS Activities like Blood donation, Road safety Quotations event etc.
- K.Rajashekar Participated and supported Mega blood Donation Drive 2014 by Akhil Bharatiya Terpanth Yuvak Parishad .
- M.Meghana acted as a leader in the event Hyderabad Youth Assembly 2014-15
- B.Amulya and several other students are volunteers in Street Cause EForce, an environmental wing of street cause. its one of the largest student run NGOs which work for the betterment of the society in various aspects. Faculty and students of IT department are also participating various other activities in Model United Nations(MUN), Swatch Bharath, Toast Masters Club and Haritha Haram.

### **36. Give details of “beyond syllabus scholarly activities” of the department.**

- Faculty members mentor students to present technical papers in national and international conferences and journals.
- Faculty members motivate students to take-up and complete online certification courses in latest technologies.
- The department of IT encourages students to organize various technical events which include coding contests, Technical Quiz, paper presentations, poster presentations and project presentations as part of annual national level student technical symposium “TECSTASY”.



- Department regularly organizes workshops and conferences to update professional knowledge and skills.
- Department organizes industrial visits to help students to be abreast with the latest industrial practices.
- Department conducts guest/extension lectures by inviting eminent personalities from various Industries and Institutions to lend valuable Information from their experiences to students.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

- The UG program of the department was granted provisional accreditation by NBA (National Board of Accreditation) for two years for the period of 2013-2015
- The UG program of the department was granted provisional accreditation by NBA for three years for the period of 2008-2011

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**

1. Well qualified and experienced faculty
2. Good Faculty Retention
3. Skilled Technical staff members
4. On an average, around 90% of the students got placements during the last 5 years.
5. Teachers firmly believe in life-long learning
6. Representation of large number of faculty in BoS contributing to curriculum design and implementation
7. Participation of staff and students in wide range of extension, co-curricular and extra-curricular activities.
8. Well ventilated and ICT enabled class rooms
9. Well equipped labs and systems with latest configuration
10. Good number of publications by the faculty in peer-reviewed journals in recent years
11. Successfully conducted certification programs in collaboration with Industry
12. Established Big Data Analytics Lab which is useful for researchers to conduct experiments in the area of Big Data Analytics.

**Weaknesses:**

1. Less R&D and consultancy
2. Paucity of time for the teachers to spend on research work
3. Limitation on implementation of value added courses because of diverse student communities.

**Opportunities:**

1. Location advantage for strengthening academic-industry linkages.
2. Flexibility in designing curriculum to meet industry needs.

**Challenges:**

1. Keeping pace with the rapid changes in the field of Information Technology
2. To motivate students towards self employability / entrepreneurship.
3. Improving consultancy and R&D activities in the department.

**39. Future plans of the department.**

1. Establishing Lab for Embedded Systems &IoT Lab.
2. Applying for good number of minor and major projects to get funding from DST, UGC, Diety etc.
3. To organize guest lecturers/entrepreneurial alumni interactions.
4. Initiate the process of consultancy by approaching potential institutes/ organizations.
5. Encouraging faculty to publish research papers in reputed journals.
6. To establish centers of Excellence in collaboration with Industry.
7. To depute faculty members to refresher courses, Seminars, Conferences, workshops, STTPs and Faculty Development programmes.
8. To organize student technical Fest 'Tecstasy'.
9. Implementation of value added courses in collaboration with industry



## Evaluative Report of the Departments

### 1. Name of the Department & its year of establishment

**Chemical Engineering & 1995**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., and Integrated Masters; Integrated Ph.D., etc.)

UG in Chemical Engineering

### 3. Interdisciplinary courses and the departments/units involved

1. Disaster Mitigation and Management, Human Values and Professional Ethics and Environmental Studies (Civil Engg. Dept.)
2. Entrepreneurship (Mechanical Engg. Dept.)
3. Principles and Practice of Management (School of Management Studies)

### 4. Annual/ semester/choice based credit system

Semester System for even first year introduced during 2013;  
Choice based credit system has been introduced in 2016

### 5. Participation of the department in the courses offered by other departments

Biotechnology UG Course

### 6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

	Sanctioned	Filled
<b>Professors</b>	1	1
<b>Associate Professors</b>	2	4
<b>Asst. Professors</b>	9	5

### 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt./ Ph.D. / M. Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. P V Naga Prapurna	Ph.D (Enviro.Engg.)	Assoc. Prof. & Head	Chemical Engg.	22	-
Dr. R Sreedhar Rao	Ph.D (Enviro.Engg.)	Professor	Chemical Engg.	30	-





Dr. T Sankarshana	Ph.D (Chemical Engg)	Professor (Contract) & CoE	Chemical Engg.	35	1
V Ananth Kumar T	M.Tech (Chemical Engg)	Assoc. Prof.	Chemical Engg.	22	-
N L Narasimha Reddy	M.Tech (Chemical Engg)	Assoc. Prof. & TPO	Chemical Engg.	30	-
Dr. B Sreedhara Rao	Ph.D (Chemical Engg.)	Assoc. Prof. & NSS Officer	Chemical Engg.	29	-
Dr. Y Sarala	Ph. D (Electro Anal. Chemistry)	Assoc. Prof. (Adhoc)	Electro Analytical Chemistry	30	-
I Bala Krishna	M.Tech (Chemical Engg)	Asst. Prof. (Sr.)	Chemical Engg.	21	-
M Kalyani	M.S. (USA) (Chemical Engg)	Asst. Prof.	Chemical Engg.	12	-
P Madhuri	M.Tech (Chemical Engg)	Asst. Prof.	Chemical Engg.	8	-
K Prasad Babu	M.Tech (Mineral Engg)	Asst. Prof.	Chemical Engg.	5	-
M Mayuri	M.Tech (Bio Tech)	Asst. Prof.(Contract )	Chemical Engg.	8	-
M D Subramanyam	M.Tech (Chemical Engg)	Asst. Prof.(Contract )	Chemical Engg.	-	-

**8. Percentage of classes taken by temporary faculty – programme-wise information**

8 to 10% of the total department load

**9. Programme-wise Student Teacher Ratio** UG Chemical Engineering – 15:1



- 10. Number of academic support staff (technical) and administrative staff:** Sanctioned: 5 Filled: 4
- 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.** NIL
- 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**
1. AICTE – MODROBS of Process Dynamics and Control Laboratory (2012–13) – 8.8 lakhs (completed)
  2. AICTE – MODROBS of Chemical Reaction Engineering Laboratory – (2013–14) 1.5 lakhs (completed)
  3. AICTE – MODROBS of Computer Applications Laboratory (2015 – 16) – 19.16 lakhs (in progress)
- 13. Research facility / centre with**
- **state recognition**
  - **national recognition**
  - **international recognition**
- Not a recognized research facility / centre
- 19. Publications:**
- **Number of papers published in peer reviewed journals (national/ international)**  
Total = 28; National = 01; International = 27
  - **Monographs:** : Nil
  - **Chapter in Books:** : Nil
  - **Chapters(s) in Books :** T Sankarshana et al. – Study of Flow Behaviour in Micro Channels, Chemical and Bioprocess Engineering: Trends and Developments, Apple Academic Press, Apr 15, 2015, ISBN: 9781771880770
  - **Editing Books:** Nil
  - **Books with ISBN/ISSN numbers with details of publishers :** Nil
  - **number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO**



	<b>host, etc.)</b> : Nil	
➤	<b>Citation Index</b>	: 0 – 5.09
➤	<b>SNIP</b>	: 0.955 – 1.38
➤	<b>SJR</b>	: 0.511 – 1.1
➤	<b>Impact factor</b>	: 0.43 – 8.5
➤	<b>h-index</b>	: 8 - 16

## **International Journals Published**

### **2011 – 2012**

1. Chong-Wan Cheng, Rahmath Abdulla, Rao R Sreedhar, Pogaku Ravindra, “Determination of External Mass Transfer Model for Hydrolysis of Jatropha Oil Using Immobilized Lipase in Recirculated Packed-Bed Reactor” , Advances in Chemical Engineering and Science, Volume 1, Issue 4, pp:289-298
2. Minchala Pushpalatha , Putta Chenna Rohini Kumar, Kodigutta Balaji, Yaratha Sarala, Chadive Sridevi, Cirandur Suresh Reddy, “Electrochemical Behaviour and Analysis of Butocarboxim”, International Journal of Research in Pharmaceutical and Biomedical Sciences, Volume 2, Issue 3, pp: 1144 – 1150, July – Sep 2011, ISSN: 2229-3701

### **2013 – 2014**

3. B Sreedhara Rao, R C Sastry,” Simulation Studies on Wavy And Chevron-corrugated Plate Heat Exchangers Using Fluent”, International Journal of Mechanical Engineering, Volume 2, Issue 5, pp: 61 – 66, Nov 2013, ISSN(P): 2319-2240; ISSN(E): 2319-2259
4. B Sreedhara Rao, Varun S, M V S Murali Krishna, R C Sastry,” Experimental Studies On Pressure Drop In A Sinusoidal Plate Heat Exchanger: Effect of Corrugation Angle”, International Journal of Research in Engineering and Technology, Volume 3, Issue 2, pp: 122 – 126, Nov 2013, ISSN(P): 2319-1163; ISSN(E): 2321-7308
5. B Sreedhara Rao, Varun S, M V S Murali Krishna, R C Sastry,”Effect Of Corrugation Angle On Pressure Drop of Viscous Fluids in Sinusoidal Corrugated Plate Heat Exchangers”, Volume 7, Issue 1, pp: 97 – 104, March 2014, ISSN: 2231-1963
6. B Sreedhara Rao, Varun S, M V S Murali Krishna, R C Sastry, “Pressure drop studies of Newtonian fluids in corrugated plate heat exchangers”, International Journal of Mechanical Engineering and Applications, Volume 2, Issue 3, pp: 38 – 43, May 2014
7. Ungarala S, K Miriyala and T B Co, “The Estimation of Time-Varying Parameters in Continuous-Time Nonlinear Systems”, Proceedings of the



10th IFAC Symposium on Dynamics and Control of Process Systems (DYCOPS-2013), IFAC, pp. 565-570, Mumbai, Volume 10, Part 1, 2013, ISSN: 1474-6670

#### 2014 – 2015

1. T Sankarshana et al., “Homogeneous and Heterogeneous Kinetics of n-Octanol Oxidation-, Journal of Applied Sciences-“, Volume 14, Issue 3, 1435-1439, 2014, ISSN: 1812 - 5662
2. T Sankarshana et al., “Recovery of Hydrochloric Acid and Glycerol from Aqueous Solutions in Chloralkali and Chemical Industries by Membrane Distillation Technique”, Journal of the Taiwan Institute of Chemical Engineers, Volume 45, 1249-1259, 2014, ISSN: 1876 - 1070
3. T Sankarshana et al., “PTC Oxidation of Alcohols: Design of Experiments, International Journal of Engineering Research and Applications”, Volume 4, Issue 6, June 2014, ISSN: 2248 - 9622
4. T Sankarshana et al., “Experimental isobaric vapor-liquid equilibrium at atmospheric and sub-atmospheric pressures, excess molar volumes and deviations in molar refractivity from 292.15 to 318.15 K of di-isopropyl ether with methanol and isopropyl alcohol”, Fluid Phase Equilibria, Volume 382, 286-299, 2014, ISSN: 0378 - 3812
5. T Sankarshana et al., “Selective Extraction of lactic acid from aqueous media through a hydrophobic H-Beta zeolite/PVDF mixed matrix membrane contactor”, Ind. Eng. Chem. Res., Volume 53, 17770-17781, 2014, ISSN: 0888-5885
6. T Sankarshana et al., Phase Transfer Catalysis: Oxidation of 2-Methyl-1-butanol, Chinese Journal of Chemical Engineering, Volume 22, Issue 9, 1000-1004, 2014, ISSN: 1004 – 9541
7. Lakshmi Narsimha Reddy Nimma , Narsi Reddy Malgireddy, , “Optimal conditions for production of Tannase from newly isolated Aspergillus terreus under solid state fermentation”, European Journal of Biotechnology and Bioscience; Volume 3, Issue 2, pp: 56-64, 2015, ISSN: 2321-9122
8. Lakshmi Narsimha Reddy Nimma , Narsi Reddy Malgireddy, “Production of Tannase by Isolated Aspergillus Terreus under Submerged Fermentation”, International Journal of Science, Technology & Management, Volume 4, Issue 2, pp: 102-113, 2015, ISSN: 2394-1537
9. Y Sarala et al, “5-Hydroxy-2-Nitro benzaldehyde thiosemicarbazone (HNBTS)”, Acta Crystallographica, E70, 0846, 2014



10. B. Sreedhara Rao, Varun S , Surywanshi G D, R C Sastry, “Experimental Heat Transfer Studies of Water in Corrugated Plate Heat Exchangers: Effect of Corrugation Angle”, International Journal of Scientific Engineering and Technology, Volume 3, Issue 7, pp: 902 – 905, July 2014, ISSN : 2277-1581
11. B. Sreedhara Rao, Surywanshi G D, Varun S , M V S Murali Krishna, R C Sastry, “Effect of Corrugation Angle on Heat Transfer Studies of Viscous Fluids in Corrugated Plate Heat Exchangers” International Journal of Engineering and Technology Innovation, Volume 5, Issue 2, pp: 99 – 107, January 2015, ISSN : 2223-5329
12. M Kalyani, V Ramesh Kumar and Suggala V Satyanarayana, “The Effect of Various Parameters on Oxidative Coupling of Methane”, Journal of Chemical Engineering and Research, Volume 2, Issue 1, pp. 223-230, 2014, ISSN: 2349 – 9567

#### **2015-2016**

1. T Sankarshana et al., Separation of Propylene-Propane Binary Mixtures using Ag-Pebax Membranes-, Oil and Gas Science and Technology, Volume 70, Issue 2, pp: 381-390, 2015, ISSN: 1294-4475
2. T Sankarshana et al., Purification of human serum paraoxonase-1, Int. J. Adv. Biotech. and Res., Volume 6, Issue 1, pp: 80-85, 2015, ISSN: 0976-2612
3. Naga Prapurna, Viswanatham M, “Kinetics of Industrial Solid Waste as a New adsorbent for Removal of Non-biodegradable Pollutants”, IOSR Journal of Environmental Science, Toxicology and Food Technology, Volume 10, Issue 1, 2016, pp: 1-11, ISSN: 2319-2399.
4. B. Sreedhara Rao, M Mayuri, D Krishna Kant, Himanshu V, M V S Murali Krishna, and R C Sastry, “Heat Transfer Studies In Wavy Corrugated Plate Heat Exchangers”, International Journal of Advanced Research in Engineering and Technology, Volume 6, Issue 11, Nov 2015, pp: 72-79, ISSN: 0976-6499
5. B. Sreedhara Rao, M Mayuri, Y Sarasija, G Rohini , R C Sastry, “Pressure Drop Studies In Wavy Corrugated Plate Heat Exchangers”, International Journal of Mechanical Engineering and Technology, Volume 6, Issue 12, December 2015, pp: 60-65, ISSN: 0976-6359
6. B. Sreedhara Rao, M Mayuri, D Krishna Kant, Himanshu V, M V S Murali Krishna, and R C Sastry, “Heat Transfer Studies In Wavy



Corrugated Plate Heat Exchangers”, International Journal of Advanced Research in Engineering and Technology, Volume 6, Issue 11, Nov 2015, pp: 72-79, ISSN: 0976-6499

7. B. Sreedhara Rao, M Mayuri, Y Sarasija, G Rohini , R C Sastry, “Pressure Drop Studies In Wavy Corrugated Plate Heat Exchangers”, International Journal of Mechanical Engineering and Technology Volume 6, Issue 12, December 2015, pp: 60-65, ISSN: 0976-6359.
8. Rohit Puntambekar, Madhuri Pydimalla, Srikanta Dinda, Ramesh Babu Adusumalli, “Characterization of Eucalyptus Heartwood and Sapwood Pulp after Kraft Cooking”, Journal of the Indian Academy of Wood Science, March 2016, ISSN: 0972-172X

### **National Journals Published**

#### **2015-2016**

1. Rao R Sreedhar, Gyananath G , Krishnamacharyulu S K G, “Effectiveness of adsorbents for treatment of Different Industrial Effluents: A statistical Approach”, Journal of Applied Geochemistry, Volume 17, Issue 3, September, 2015, pp: 304-310, ISSN (print):0972-1967, ISSN (online): 2319-4316

#### **15. Details of patents and income generated Nil**

#### **16. Areas of consultancy and income generated**

“Certificate in Pharma Process Technology” for employees of Dr. Reddy’s labs, Hyderabad, April 2012 onwards. Amount generated – **Rs. 37,40,379**

#### **17. Faculty recharging strategies**

1. Faculty is nominated to:
  - Programs like orientation courses, Workshops, Refresher courses in their field of expertise,
  - Faculty development programmes conducted by other universities and Staff Colleges
  - Faculty development programmes conducted by the corporates – like WIPRO MISSION 10x
  - Management Capacity Enhancement Programmes conducted by IIMs
2. Conducting training programs to corporates, by the faculty on remuneration basis



## 18. Student projects

- a) Percentage of students who have done in-house projects including inter-departmental = 1 %
- b) Percentage of students doing projects in collaboration with industries / institutes

Academic Year	%
2010 - 11	-
2011 - 12	-
2012 - 13	31%
2013 - 14	24%
2014 - 15	25%
2015 - 16	28%

## 19. Awards / Recognitions received at the national and international level by

### Faculty –

Dr. P. V. Naga Prapurna, Associate Prof. & HoD, has been awarded "Global Education Excellence Awards 2016" as "Best Teacher for Chemical Engineering and Biotechnology in Telangana", by Prime Time Research Media Private Limited, New Delhi, on 10<sup>th</sup> April 2016

**Doctoral / post doctoral fellows** Nil

**Students** Nil

## 20. Seminars/ Conferences/Workshops organized & the source of funding (national/international) with details of outstanding participants, if any.

a) **National** = 15 (source of funding – TEQIP and sponsorers)

b) **International** = NIL

## 21. Student profile program/course wise:

Academic Year	Selected%		Pass %
	Male	Female	
2010 - 11	25	75	92
2011 - 12	44	56	94
2012 - 13	36	64	91
2013 - 14	30	70	79
2014 - 15	34	66	71
2015 - 16	34	66	86



## 22. Diversity of Students (AEC, CBIT)

Name of the Course	% of students from the same state	% of students from other States	% of students from other countries
2011-12	100	--	--
2012-13	100	--	--
2013-14	98.22	1.78	--
2014-15	100	--	--
2015-16	98.04	--	1.96

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Type of Exam	No. of Students qualified for various competitive					
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
<b>GATE</b>	06	12	14	16	10	07
<b>CAT</b>	-	01	-	01	-	01
<b>TOEFL</b>	-	-	-	11	13	14
<b>GRE</b>	-	-	-	11	13	14
<b>GMAT</b>	-	-	-	-	-	-
<b>Civil Services</b>	-	-	-	-	-	-
<b>Other</b>	-	-	-	-	-	-

## 24. Student progression

Student Progression	Percentage (%)					
	2010-11	2011-12	2012-13	2013-14	2014-	2015-16
UG to PG	13.3	18.4	25.4	30.7	17.8	10.6
PG to M.Phil.	-	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-	-
Employed: Campus selection	60	80	70	43	64	48
Other than campus recruitment	18	9	2	8	2	-
Entrepreneurship/S elf-employment	2	3	-	2	2	2





## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	31
from other universities within the State	46
from other universities from other states	23

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Dr. B. Sreedhara Rao was awarded Ph.D in Chemical Engg from National Institute of Technology (N.I.T.W), on 29-11-2014. The title of the thesis submitted is 'Heat Transfer Studies of Newtonian Fluids in Corrugated Plate Heat Exchangers'.

## 27. Present details of infrastructural facilities a) Library b) Internet facilities for Staff & Students c) Total number of class rooms d) class rooms with ICT facility e) Students' laboratories f) Research laboratories

Particulars	Number	Area	Total Area
Total class Rooms	04	3 class rooms: 69.3 sq.m. 1 class room: 34.65 sq.m.	242.55
class rooms with ICT facility	03	area of each room (3): 69.3 sq.m.	-
Drawing hall	01	area of each room: 198sq.mts	198.00
Student laboratories	06	460.1 area in sq.mts	460.10
Research laboratories	Nil	Nil	Nil
Computer Centre	01	79.2 sq.mts	79.20
Staff Cabins	06	area of each cabin :9.66 sq.mts	57.96
Dept. Library	01	area in sq.mts:35.55	35.55
Head Chamber	01	area in sq.mts:35.55	35.5
<b>Total area of Chemical Dept.</b>			<b>1108.86</b>
<b>Approx.1109 sq.m</b>			
<b>Other infrastructure facilities:</b>			
2. Common seminar hall, M-002, Shared with Biotech dept.			
3. Staff enclosures in Placement Office and Controller of			



Examinations
4. Store room in K-Block

**28. Number of students of the department getting financial assistance from College.**

S.No	Academic Year	Cast Wise Students						Total
		SC	ST	BC	EBC	PHC	Minority	
1.	2010-11	7	4	21	9	0	-	41
2.	2011-12	13	4	35	13	0	-	65
3.	2012-13	20	8	38	17	0	7	90
4.	2013-14	22	9	49	25	0	7	112
5.	2014-15	26	9	27	10	0	7	79
6.	2015-16	25	15	36	21	0	7	104

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Not applicable

**30. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Feedback is obtained from the faculty on curriculum, as and when, and the suggestions are recorded and implemented at the time of BOS meetings. The same is approved in Academic Council Meetings.

**b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Feedback from students is collected on teaching-learning process and faculty through questionnaires, on the institute's web portal. This feedback can be accessed by individual teachers for further improvement. However, Principal discusses the same with the faculty, wherever necessary and suggests improvements if needed.



**c. Alumni and employers on the programmes and what is the response of the department to the same?**

Constructive suggestions by alumni during their visits to the department and through mails, regarding curriculum and infrastructure are conveyed to the institute authorities and implemented wherever possible. Eg: Introduction of MATLAB, addition of a few core courses etc.

During placements, feedback is collected from the employers, regarding curriculum. This has resulted in introduction of courses like **Soft Skills and Employability Enhancement**.

**31. List the distinguished alumni of the department (maximum 10)**

S.No	Name	Year of Passing	Designation	Company Name
1.	Dr. Ramesh Babu A	2000	HOD, Chemical Engg. Dept.	BITS- Pilani, Hyderabad
2.	Mr. Ashish Bhojania	2001	Manager	Thermosis Heat Exchangers, Hyd.
3.	Mr. Mallikarjun Aditya	2006	Manager	Jord International
4.	Mr. Ritesh	2007	Principal and Founder	Kiran Intl. School, Hyd.
5.	Ms. Sreevani Pyreddy	2008	Process Engineer	Worley Parsons Energy Pvt. Ltd.
6.	Mr. Mahavishnu	2008	CEO	Emmennar Pharma, Hyd.
7.	Ms. Sahiti	2011	Manager	Vijaya Sree Chemicals
8.	Ms. Tejaswini	2011	Process Engineer	Jord International
9.	Mr. Mitesh Lohiya	2012	MD	Lohiya Industries, Hyd.
10.	Mr. Sandeep	2014	Process Engineer	Dr. Reddy Labs, Hyd.
11.	Mr. Ram Mohan Reddy	2014	Process Engineer	HPCL

**32. Give details on student enrichment programs (speciallectures/workshops/seminar) with external experts:**

Ten guest lectures were organized during the period of assessment.

**2010 - 2011**



1. V Ananth Kumar T – One day workshop on “Evolution in Chemical Engineering”, Feb 2011

#### **2011 - 2012**

1. I Bala Krishna – “CHEMSPARK 2K12” – National Technical Symposium, Dept. of Chemical Engineering, CBIT (February 2012)

#### **2012 - 2013**

1. Dr. P V Naga Prapurna – Workshop on “Applications of MATLAB and CHEMCAD in Chemical engineering”, for final year chemical engg students, Dept. of Chemical Engg., CBIT, (05<sup>th</sup> – 06<sup>th</sup> October 2012)
2. Dr. Y Sarala – Guest Lecture series on “Applications of Chemical Engineering”, Dept. of Chem. Engineering Dept., CBIT, (1<sup>st</sup> March, 2013)

#### **2013 - 2014**

1. Dr. P V Naga Prapurna and P Madhuri, CHEMSPARK–2k14, a two-day national level students’ technical symposium, Dept. of Chemical Engg., CBIT (28<sup>th</sup> – 29<sup>th</sup> Mar 2014)

#### **2014 – 2015**

1. M Kalyani and M Mayuri, CHEMSPARK–2k15, a two-day national level students’ technical symposium, Dept. of Chemical engg., CBIT (10<sup>th</sup> and 11<sup>th</sup> Mar 2015)

#### **2015 – 2016**

1. Dr. P V Naga Prapurna – SUDHEE-2015 - 2-day common annual national students’ technical symposium organized by CBIT, (29<sup>th</sup> and 30<sup>th</sup> September 2015)
2. P Madhuri and K Prasad Babu, CHEMSPARK – 2k15, a two-day national level students’ technical symposium, Dept. of Chemical engg., CBIT (29<sup>th</sup> and 30<sup>th</sup> September 2015)
3. Dr. P V Naga Prapurna, I. Bala Krishna, K. Prasad babu - Workshop on “MATLAB Applications for Chemical Engineers”, for final year chemical engg students, Dept. of Chemical Engg., CBIT, (12<sup>th</sup> March 2016)
4. N L N Reddy, Dr. P V Naga Prapurna - Workshop on Mechanical Unit Operations for Chemical Engineers, for first, second, third and final year chemical engg students, Dept. of Chemical Engg., CBIT, (15<sup>th</sup> March 2016)

### **33. List the teaching methods adopted by the faculty for different programmes.**

Computer aided teaching methods, Industrial visits, Invited expert lectures, National student conferences, Summer Projects in Industries, QEEE classes, Workshops.



**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Learning outcomes for a course are quantified through various assessment processes like midterm evaluations, quizzes, and assignments etc. These measured outcomes are compared year on year basis to assess the progress and are mapped with the program objectives, to ensure that they are inline with the stipulated vision and mission of the department.

**35. Highlight the participation of students and faculty in extension activities.**

NSS Activities, Swatch Bharath, Plantation drives, Toast Masters Club, Street Cause, MUN.

**36. Give details of “beyond syllabus scholarly activities” of the department.**

Guest lectures, Quizzes, Industrial trips, Workshops for hands on experience, Student projects, Seminars are the various scholarly activities conducted in the department, beyond the scope of syllabus.

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department has been accredited by NBA in 2004, 2008 and 2013 by NBA (AICTE)

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths**

1. Expertise to facilitate certificate programs for industry personnel.
2. Successful alumni for support.
3. Faculty have ability and expertise to involve at institute level works as: Placment officer, Controller of Examinations and also as coordinators for NAAC, NBA, ISO, CDAAC, Newsletter, SHRUTHI and SUDHEE.
4. 50% staff are doctorates and rest are pursuing PhD.
5. On an average 70% students are placed each year

**Weaknesses**

1. Department lags on the research front in procuring AICTE – UGC funded research projects.
2. Inadequate student placements in core companies.

**Opportunities**

1. To provide consultancy services and to enter into MOUs with



- core process industries like pharma and paints.
2. To identify industries and higher learning institutes for student projects

### **Challenges**

1. Organizing international conferences
2. To attract talent pool to the department, in terms of admissions
3. To modernize the laboratories
4. To improve the pass percentage
5. To fetch grants from various agencies for conducting quality research

### **39. Future Plans of the department**

1. To introduce post graduate program.



## Evaluative Report of the Departments

### 1. Name of the department & its year of establishment :

**Bio-Technology & 2005.**

### 2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) B-Tech(Bio-technology)

### 3. Interdisciplinary courses and the departments involved

S.no	course	semester	Interdisciplinary units involved
1	B.Tech 1/4	1sem	EEE,Mathematics,Chemistry
2	B.Tech2/4	1sem/2 <sup>nd</sup> sem	Mathematics

### 4. Annual/ semester/choice based credit system (programme wise)

S.no	course	programme	ANNUAL/SEM/CBCS
1	B.Tech 1/4	UG	Semester wise
2	B.Tech2/4	UG	Semester wise
3	B.Tech 3/4	UG	Semester wise
4	B.Tech4/4	UG	Semester wise

### 5. Participation of the department in the courses offered by other departments NIL

### 6. Number of Teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)

	Sanctioned	Filled
Professors	1	1
AssociateProfessors	1	1
Asst.Professors	9	9

### 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students
Prof. T.Saikrishna	PhD	professor	Genetic and Plant breeding	45	1
Prof.AVN Swamy	PhD	Associate professor	Chemical Engg	36	3



Dr.V.Aruna	PhD	Assistant professor	Bio-Technology	12	NIL
Mr.C.obularreddy	M.Tech	Assistant professor	Bio-Technology	12	NIL
Dr.S.Shylaja	PhD	Assistant professor	Chemistry	15	NIL
Dr.K.Rajagopal	PhD	Assistant professor	Biophysics	15	NIL
Dr.G.vijayalaxmi	PhD	Assistant professor	Genetics	17	NIL
Ms.S.Sumitra	M.Tech	Assistant professor	Biochemical Engg	05	NIL
Ms TRA. Vijayabharathi	M.Tech	Assistant professor	Bio-Technology	14	NIL
Dr.S.Somaroy	PhD	Assistant professor	Bio-Technology	17	NIL
Ms P.Sujatha	M.Tech	Assistant professor	Bio-Technology	06	NIL

#### 8. Percentage of classes taken by temporary faculty – programme-wise information

S.No	Name of the faculty	Programme(UG)	%classes delivered
1	Prof. T.Sai Krishna	M.Sc,PhD	50%
2	Prof.AVN Swamy	M. Tech.,PhD	10%
3	MsTRA. Vijayabharathi	M.Tech (biotech)	50%
4	Dr.S.Somaroy	M.Sc.,PhD (biotech)	50%
5	Md.Matheen	M.Tech (biotech)	30%
6	Dr C.Anjaneyulu	M.Sc.,PhD (biotech)	30%
7	MsP.Sujatha	M.Tech (biotech)	50%

#### 9. Programme-wise Student Teacher Ratio 15:1





**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled 7**

Technical staff	Sanctioned	Filled
Lab Assistant	1	1
Lab Technician	4	4
Lab Attenders	2	2

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

Name of the faculty	Funding(National/international)	Total grants received in(Rs)
Dr G.Vijaya laxmi	UGC	1,42,000

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

Name of the faculty	Funding(National/international)	Total grants received in(Rs)
Dr G.Vijaya laxmi	UGC	1,42,000

**13. Research facility / centre with**

- state recognition : NOT RECOGNISED
- national recognition : NOT RECOGNISED
- international recognition : NOT RECOGNISED

**14. Publications:**

- Number of papers published in peer reviewed journals (national /international)
- Monographs
- Chapter(s) in Books
- Editing Books
- Books with ISBN Nnumbers with details of publishers
- number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average
- SNIP
- SJR
- Impact factor - range / average



- **h-index**

Publication per faculty :

Sno	Name of faculty	Publications in national journals	Publications in international journals	Chapter in Books	ISSN/ISBN number-books.	Impact factor
1	Prof T.Sai Krishna	2	Nil	Nil	Nil	1.0-2.0
2	Prof AVN Swamy	8	29	Nil	Nil	1.0-5.33
3	Dr.V.Aruna	2	4	Nil	Nil	0.5-5.0
4	Mr.C.Obulareddy	1	2	Nil	Nil	1.0-5.33
5	Dr. S.Shylaja	Nil	15	Nil	Nil	1.0-2.0
6	Dr. K.Rajagopal	3	Nil	Nil	Nil	0.1
7	Dr. G.Vijaya laxmi	Nil	2	Nil	Nil	2.0-6.0
8	Ms. Sumithra	Nil	1	Nil	Nil	Nil
9	Ms.TRA. Vijaya bharathi	Nil	Nil	Nil	Nil	Nil
10	Dr.Soma Roy	Nil	2	Nil	Nil	0.5-3.0
11	Ms.Sujatha	Nil	Nil	Nil	Nil	Nil

#### Academic year-2010-11

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	31	NIL	0.890
3	Dr.V.Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr.C.Obulareddy	NIL	NIL	NIL	NIL	NIL
5	Dr. S.Shylaja	NIL	NIL	4	NIL	NIL
6	Dr. K.Rajagopal	NIL	NIL	NIL	NIL	NIL
7	Dr. G.Vijaya	NIL	NIL	NIL	NIL	NIL



	laxmi					
8	Ms. Sumithra	NIL	NIL	NIL	NIL	NIL
9	Ms. TRA. Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr. Soma Roy	NIL	NIL	41	NIL	NIL
11	Ms. Sujatha	NIL	NIL	NIL	NIL	NIL

**Academic year-2011-12**

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	4-12	NIL	0.34
3	Dr. V. Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr. C. Obula reddy	NIL	NIL	NIL	NIL	NIL
5	Dr. S. Shylaja	NIL	NIL	4	NIL	H5
6	Dr. K. Rajagopal	NIL	NIL	NIL	NIL	NIL
7	Dr. G. Vijaya laxmi	NIL	NIL	10	NIL	NIL
8	Ms. Sumithra	NIL	NIL	NIL	NIL	NIL
9	Ms. TRA. Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr. Soma Roy	NIL	NIL	NIL	NIL	NIL
11	Ms. Sujatha	NIL	NIL	NIL	NIL	NIL

**Academic year-2012-13**

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	NIL	NIL	NIL
3	Dr. V. Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr. C. Obula reddy	NIL	NIL	NIL	NIL	NIL
5	Dr. S. Shylaja	NIL	NIL	NIL	NIL	H5
6	Dr. K. Rajagopal	NIL	NIL	NIL	NIL	NIL



7	Dr. G.Vijaya laxmi	NIL	NIL	NIL	NIL	NIL
8	Ms. Sumithra	NIL	NIL	NIL	NIL	NIL
9	Ms.TRA.Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr.S.Soma Roy	NIL	NIL	NIL	NIL	NIL
11	Ms.Sujatha	NIL	NIL	NIL	NIL	NIL

**Academic year-2013-14**

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	NIL	NIL	NIL
3	Dr. V.Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr.C.Obula reddy	NIL	NIL	NIL	NIL	NIL
5	Dr. S.Shylaja	NIL	NIL	126	NIL	4
6	Dr. K.Rajagopal	NIL	NIL	NIL	NIL	4
7	Dr. G.Vijaya laxmi	NIL	NIL	NIL	NIL	NIL
8	Ms. Sumithra	NIL	NIL	NIL	NIL	NIL
9	Ms.TRA.Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr.Soma Roy	NIL	NIL	2	NIL	NIL
11	Ms.Sujatha	NIL	NIL	NIL	NIL	NIL

**Academic year-2014-15**

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	1-31	NIL	0.12
3	Dr. V.Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr.C.Obula reddy	NIL	NIL	NIL	NIL	NIL
5	Dr. S.Shylaja	NIL	NIL	NIL	NIL	NIL
6	Dr. K.Rajagopal	NIL	NIL	NIL	NIL	NIL



7	Dr. G.Vijaya laxmi	NIL	NIL	10	NIL	NIL
8	Ms. Sumithra	NIL	NIL	NIL	NIL	NIL
9	Ms.TRA.Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr.Soma Roy	NIL	NIL	25	NIL	NIL
11	Ms.Sujatha	NIL	NIL	NIL	NIL	NIL

### Academic year-2015-16

Sno	Name of the Faculty	Monographs	Books edited	Citation index	SNIP	SJR
1	Prof T.Sai Krishna	NIL	NIL	NIL	NIL	NIL
2	Prof AVN Swamy	NIL	NIL	1-14	NIL	2.1-15.23
3	Dr. V.Aruna	NIL	NIL	NIL	NIL	NIL
4	Mr.C.Obula reddy	NIL	NIL	10	NIL	1
5	Dr. S.Shylaja	NIL	NIL	NIL	NIL	NIL
6	Dr. K.Rajagopal	NIL	NIL	10	NIL	1
7	Dr. G.Vijaya laxmi	NIL	NIL	NIL	NIL	NIL
8	Ms. Sumithra	NIL	NIL	10	NIL	NIL
9	Ms.TRA.Vijaya bharathi	NIL	NIL	NIL	NIL	NIL
10	Dr.Soma Roy	NIL	NIL	NIL	NIL	NIL
11	Ms.Sujatha	NIL	NIL	NIL	NIL	NIL

### **List of Faculty Publications**

1. Prof.T. Saikrishna, HOD Madhavi Latha. D. Rajkumar.B. Sai Krishna.T. Choice of Culture media for isolation of algae from soils of some rice fields. Phykos,@ Phycological Society of India. 44(2), P. 44-53 .-2014.
2. Dr. AVN. Swamy, Associate Professor.  
2016
3. Obula reddy.c.,Swamy.A.V.N.,Muralidhara reo.D.,comparative studies of L-Lacticacid production from Ground nut shell and sugarcane molasses by mutant L.Lactobacillus delbrueckii2025 U-25 strain.IJAR.,volume (4),issue 6,2016. issn no-2320-54079impact factor-5.336.



4. Obulareddy.C.Swamy.A.V.N.,Muralidhara rao.D., Experimental studies on L-Lacticacid from groundnut shells by using Lactobacillus delbrueckiiNCIM2025after pretreatment.,international journal of advanced research.volume(4),issue-5,1432-1438,2016,issn no-2320-54079impact factor-5.336.
5. Sangeetha Aula,ab Samyuktha Lakkireddy, Kaiser Jamil, Atya Kapley,A. V. N. Swamy and Harivardhan Reddy Lakkireddy, Biophysical, biopharmaceutical and toxicological significance of biomedical nanoparticles, RSC Adv., 5, 47830 (springer).2015.
6. Samyuktha Lakkireddy, Sangeetha Aula, Swamy AVN, Atya Kapley, Raghunadha Rao Digumarti, M.D., Kaiser Jamil, Association of The Common CYP1A1\*2C Variant(Ile462Val Polymorphism) with Chronic MyeloidLeukemia (CML) in Patients UndergoingImatinib Therapy, Cell J. 17(3): 510-519 2015;.
7. Samyuktha Lakkireddy, Sangeetha Aula, Atya Kapley, A. V. N. Swamy,Raghunadha Rao Digumarti, Vijay Kumar Kutala, Kaiser Jamil, Association of Vascular Endothelial Growth Factor A (VEGFA)and its Receptor (VEGFR2) Gene Polymorphisms with Riskof Chronic Myeloid Leukemia and Influence on Clinical Outcome, DOI 10.1007/s40291-015-0173-0 Springer International Publishing Switzerland 2015.

#### 2014

8. Mamatha P, Salamma S. Swamy A. V. N. And Ravi Prasad Rao B. Quantitative and risk analysis of heavy metals in selected leafy vegetables, Der Pharma Chemica, 6(3):179-185, 2014.
9. Mamatha P, Venkateswarlu G, Swamy A. V. N. and Sahayam A. C. , Microwave assisted extraction of Cr(III) and Cr(VI)from soil/sediments combined with ion exchangeseparation and inductively coupled plasma opticalemission spectrometry detection, Anal. Methods, 6, 9653(springer),2014.
10. Mohammad Munawar T , Swamy A.V.N Muralidhara Rao. D, Production, purification and characterization of alkaline protease from Trichoderma viride, N9 by using agro industrial wastes under solid state fermentation, International Journal of Advanced Research Volume 2, Issue 7, 305-312, 2014.
11. Mohammad Munawar. T,Aruna.K, Swamy. A.V.N ,PRODUCTION, Purification And Characterization Of Alkaline Protease From Agro Industrial Wastes By Using Aspergillus Terreus (Ab661667) Under Solid State Fermentation, Ijareasvol. 3 | No. 10 | October 2014.
12. Mohammad Munawar . T, Swamy A.V.N, Varadacharyulu. N.Ch, Production, purification and characterization of alkaline protease



from *Aspergillus niger* MTCC281 by using agro industrial wastes under solid state Fermentation, *International Journal of Advanced Research* Volume 2, Issue 5, 931-938,2014.

13. Sangeetha Aula, Samyuktha Lakkireddy, Swamy AVN, Atya Kapley, Kaiser Jamil, Narasinga Rao Tata and Kaliyan Hembram, Biological interactions in vitro of zinc oxide nanoparticles of different characteristics, *Materials Research Express* 1 035041, 2014.
14. Subba Rao Kumbha, Ramanjaneyulu. V and Swamy .AVN, Aerobic Biodegradation of Vinegar Containing Waste Water by Mixed Culture Bacteria from Soil in Fluidised Bed Reactor, ISSN : 2248-9622, Vol. 4, Issue 9( Version 1), September 2014.
15. Samyuktha Lakkireddy, Sangeetha Aula, Atya Kapley, Vedanta Narasimhaswamy Adimadhyam, Kaiser Jamil, ROLE OF ANGIOGENESIS IN CHRONIC MYELOID LEUKEMIA, Vol. 5, Issue, 7, pp. 1311-1321, July, 2014.

### 2013

16. Mamata P and Swamy AVN “Assessment of ground water quality in some villages near uranium Corporation of India Limited Tummalapalle in Andhra Pradesh. *International journal of Environmental Engineering and Management*, ISSN 2231-1319, Volume 4, Number 2, pp195-205, 2013.
17. Krishnarjuna Reddy .CV, Rajeswara Reddy.E, Muralidhara Rao D, Swamy AVN, “In silico expression of PYC gene from *Corynebacterium glutamicum*” ATCC 13032, *International Journal of Advanced Research in Management and Social Sciences* Vol2 No.1, pp23, 2013.
18. 14 Srinu Venkat Rao .R, Sridevi .V and Swamy .AVN “Statistical optimization of fermentation conditions for L- glutamic acid production by free cells of *Corynebacterium glutamicum* ATCC 13032” *International journal of engineering science Invention* ISSN-2319-6726, vol2. Issue9, pp23-28. 2013.
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Dr. S. Soma Roy, Assistant professor

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**b) Students Paper publications:**

S. No	Students Publications	Impact factor
Academic Year (2013-14)	<b>Soma Roy</b> , Prashanth Lingampeta. Solid wastes of fruits peels as source of low cost broad spectrum natural antimicrobial compounds- furanone, furfural and benzenetriol. <i>International Journal of Research in Engineering and Technology</i> , 2014 Vol 3 Issue 7, 273-277.	3.0
Academic Year (2011-12)	Matheen, MD.K. A., <b>Sravani, G., Mahathi, S., Vineela, G. and Raof.</b> 2012. Anti proliferative effects of <i>Lasienthera africanum</i> on Prostate Epithelial Cancer Cell. <i>Journal of Bio Innovation</i> . 1(6):186-196. ISSN 2277-8330 (Electronic)	0.4
	<b>Neelima, T., Komali, V. and Teja, V.D.</b> 2012. Split application of gypsum on herb and essential oil yields of <i>Ocimum tenuiflorum</i> variety Cim-Ayu, <i>Cymbopogon flexuosus</i> variety Krishna	Peer Reviewed



	and Cymbopogon martini variety Trisha. J: Biotechnol. Biomater. 2:6. ISSN: 2155-952X	
	<b>Geetha, S., Harshitha, D.</b> and Giridhar Reddy, P. 2012. Paternity Testing through multiplex PCR based STR Genotyping of Genomic DNA. J. Bio. Innov.1: 41-47. ISSN: 2277-8330 (online).	0.4
	<b>Laxmi Narayna, CH., Dheeraj. G., Sukumar. B., Harish. P.</b> and Sanjana. S. 2012. Protective effects of <i>Circuma longa</i> on induced effects of doxorubicin on bone marrow cells of Mice. J. Bio. Innov.1: 14-18. ISSN: 2277-8330 (online).	0.4
	Mani Kumar, P., Pardhu, G., Shruthi, R., Vijaya Laxmi, G., Tejaswini, K. and Vishwanath Pradeep B. 2011. Phytochemical screening antimicrobial and anti proliferative properties of Rhododendron ponticum on prostate epithelial cancer cells. J. Pharm. Sci. & Res. 3: 1552-1555. ISSN: 0975-1459.	0.145
	Vishwanath Pradeep, B., Tejaswini, K., Rudrama Devi, K., Shylaja, S., Naren, R., Giridhar Reddy, P. and Jyosthna, K. 2010. Anti proliferative effects of Tridax procumbens on prostate cancer cell lines. Int. J.Biol.Sci.1:203-209. ISSN: 0976-4518.	2.699
	Tejaswini.K., Vishwanath Pradeep.B., Rudrama Devi.K., Shylaja.S and Jothsna.K,-“ Phytochemical screening and antimicrobial activities of plant extract of tridox procumbents”- Bioscan(International Journal) ,pp321-323,2011	Peer Reviewed



Academic Year (2010-11)	Mani Kumar P.,Vishwanath Pradeep B.,Tejaswini K., Shylaja S.,Laxmi Narayana and Dharma Teja K.,”Phytochemical Sreening Antimicrobial and Antiproliferative Effects of the Exctracts of Allium Sativum”- Int.J.Biol.Sci.Vol.II(1st Issue),pp.53-59,2011,ISSN.No.0976-4518	2.699
	Sanjana S.,Giridhar Reddy P., <b>Shylaja S</b> and Minica V.” Phytochemical screening,antimicrobial&antiproliferative properties of podophyllum emodion prostate epithelial cancer cells”- Bull.Environmental science ,vol.xxx(3 <sup>rd</sup> Issue),pp320-326,2011,ISSN NO.0971-1732	Peer Reviewed
	Anuradha S., Rudrama Devi K., Giridhar Reddy P.,Mani Kumar P.,Vishwanath Pradeep B. And Shylaja S.” Genotoxic Effects of Anti Cancer Drug Vincristin on Bone Marrow Cells of Mice”- Agric.Biol.Res:26(1);pp28-35,2010.	0.1

**15. Details of patents and income generated** :NIL

**16. Areas of consultancy and income generated** :NIL

**17. Faculty recharging strategies**

Sno	Faculty Name	Name of the workshop/conference attended	Total TA/DA availed(Rs)
1	DrV.Aruna	Managementcapacity enhancement programme for administrators, IIMLh, NOIDA.	13,450
2	DrV.Aruna	Nanobiotechniques, IIT Roorkee.	14,434
3	MrC.Obula reddy	Refresher course in Life sciences	4,200



4	DrG.Vijaya laxmi	Nanobiotechniques, IIT Roorkee.,IIT,Roorkee,during Feb,9-14,2016	14,434
5	DrG.Vijaya laxmi	Achieivingacademic Excellence at IIM, RAIPUR.	13,450
6	DrG.Vijaya laxmi	Workshop on Biomaterials and Stem cells for manufacturing of biological tissue by IITH during 18-23july, 2016.	1970/-

### 18. Student projects

- percentage of students who have done in-house projects including inter-departmental

S.No.	Academic Year	Percentage of Students in-house Projects
1	2010-11	5%
2	2011-12	5%
3	2012-13	10%
4	2013-14	20%
5	2014-15	30%
6	2015-16	40%

- percentage of students doing projects in collaboration with industries / institutes

S.No.	Academic Year	Percentage of Students in-house Projects
1	2010-11	5%
2	2011-12	5%
3	2012-13	10%
4	2013-14	20%
5	2014-15	30%
6	2015-16	40%

### 19. Awards / recognitions received at the national and international level by

- Faculty NIL
- Doctoral / post doctoral fellows NIL
- Students NIL





**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

S.No.	Academic Year	National/International	Source of Funding	Outstanding participants
1	2011-12	National Seminar	CBIT	Students from reputed Engg colleges in INDIA.
2	2012-13	National Seminar	CBIT	Students from reputed Engg colleges in INDIA.
3	2013-14	National Seminar	CBIT	Students from reputed Engg colleges in INDIA.
4	2013-14	National workshop	TEQIP-I	PhD scholars, Faculty attended.
5	2014-15	National Workshop	TEQIP-I	Students from reputed Engg colleges in INDIA
6	2014-15	National Seminar	CBIT	Students from reputed Engg colleges in INDIA
7	2015-16	National workshop	TEQIP-11	Students from reputed Engg colleges in INDIA
8	2015-16	National workshop	TEQIP-11	Students from reputed Engg colleges in INDIA

**21. Student profile course-wise:**

Name of the Course/programme (refer question no. 4)	Academic Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	



B.Tech(Biotechnology)	2010-11	60	59	21	38	98
B.Tech(Biotechnology)	2011-12	60	52	23	29	100
B.Tech(Biotechnology)	2012-13	60	57	17	40	100
B.Tech(Biotechnology)	2013-14	60	44	16	28	100
B.Tech(Biotechnology)	2014-15	60	44	13	31	100
B.Tech(Biotechnology)	2015-16	60	55	15	40	Results- awaited

\*M = Male \*F = Female

## 22. Diversity of Students

Name of the course	% of students from the same state	% of students from other States	% of students from abroad
B.Tech(BioTech)	100	Nil	Nil

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Student progression	%				
	2010-11	2011-12	2012-13	2013-14	2014-15
GATE	16	6	10	4	2
CAT	NIL	NIL	NIL	NIL	NIL
TOEFL	5	5	4	3	4
GRE	2	5	4	3	3
GMAT	NIL	NIL	NIL	NIL	NIL
Civil Services	NIL	NIL	NIL	NIL	NIL
otherservices	NIL	CSIR-NET(1)	NIL	NIL	NIL



#### 24. Student progression

Student progression	Percentage(%)				
	2010-11	2011-12	2012-13	2013-14	2014-15
UGtoPG	0.16%	0.28%	27%	0.14%	0.21%
PGtoM.Phil.	NIL	NIL	NIL	NIL	NIL
PGtoPh.D.	NIL	NIL	3	NIL	NIL
Employed					56%
• Campus selection	81%	73%	53%	50%	
Other than campus recruitment	NIL	NIL	NIL	NIL	NIL

#### 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	20%
from other universities within the State	70%
from other universities from other States	10%

#### 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

S.NO	Name of the faculty	Award Received	Academic year
1	Dr S.Shylaja	PhD	2014
2	Dr.K.Rajagopal	PhD	2015

#### 27. Present details about infrastructural facilities

- Library** : central library with good number of volume of books are available.
- Internet facilities for staff and students** : Wi-Fi facility available
- Total number of class rooms** : 3 Two bay sized Class rooms with LCD projectors and one seminar hall.
- Class rooms with ICT facility** : LCD projectors with internet facility available.
- Students' laboratories** : Well equipped 12 laboratories are available.



### Department of Biotechnology-Laboratories

S.No	Name of the Laboratory	Area of Room	Major Equipment	Investment till date in Rs. Rs.Rs.
1	Biophysics	70.98	Polari meter, Traveling Microscope, Ostwald's	Rs.238206
2	Biochemistry	70.98	Colori meters, pH Meters,	Rs.126866
3	Cell Biology and Immunology	70.98	Micro centrifuge with digital timer, Immuno elctro phoresis with power pack	Rs.49950
4	Microbiology	70.98	Binocular Microscopes, colony counters, Laminar air flow,	Rs.517889
5	Instumentation	70.98	UV-Visible Spectrophotometer, Flouri meter, Flame Photometer	Rs.549948
6	Bioreaction Engg	70.98	Electronic Balance, Thermostate control Water bath.	Rs.74271
7	Fermentation Technology	70.98	Bioreactor, Autoclave, Hot air Oven, Digital Balance	Rs.520830
8	Genetic Engg. Lab	70.98	PCR, UV- Trans illuminator, Gel Electrophoresis with Power pack, Cooling Centrifuge, Refrirator, Vertical slab Gel System, SDS	Rs.918072
9	Bio informatics Lab	70.98	25 Pentium IV systems	Rs.656600
10	Tissue Engg. Lab	70.98	Orbital shaker, Refrigerator, Auroclave, Double distillation Unit, Inverted Light Microscope,	Rs.574887
11	Bioprocess Lab	70.98	Fluidized Bed Reactor, Packed Bed Reactor, Air Lift Fermentor, Shaking Incubator, Magnetic	Rs.988778
12	Down Stream Processing Lab	70.98	Vacuum Driven Pump, TLC Unit, Visible Spectrophotometer	Rs.21788

f. Research laboratories : NIL

### 28. Number of students of the department getting financial assistance from College.

S.No	Academic Year	Cast Wise Students						Total
		SC	ST	BC	EBC	PHC	MINORITY	
1	2010-11	204	89	542	266	9	-	1110
2	2011-12	218	85	614	292	6	-	1215
3	2012-13	259	107	687	356	6	119	1534



4	2013-14	297	133	770	430	5	128	1763
5	2014-15	342	155	814	488	5	131	1935
6	2015-16	363	180	936	518	4	125	2126

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology. NIL**

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

**Faculty feedback on present curriculum**

S.No.	Academic year	Name of the Faculty	Feedback on curriculum and teaching learning process*	Remarks
1	2015-16	DrA.V.N.Swamy	satisfied	NIL
2	2011-16	DrV.Aruna	satisfied	NIL
3	2011-16	MrC.Obula reddy	satisfied	NIL
4	2011-16	DrS.Shylaja	satisfied	NIL
5	2011-16	Dr.K.Rajagopal	satisfied	NIL
6	2011-16	DrG.Vijaya laxmi	satisfied	NIL
7	2011-16	Mrs.S.Sumithra	satisfied	NIL
8	2011-16	MrsTRA.Vijayabharathi	satisfied	NIL
9	2011-16	Dr.Somaroy	satisfied	NIL
10	2011-16	Mrs.P.Sujatha	satisfied	NIL

\* a) satisfied b)Not satisfied

- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

**Students feedback on present curriculum**

S.No.	Students Academic year(batch)	Feed back on staff	Curriculum and Teaching learning process*	Evaluation
1	2011-12	satisfied	satisfied	satisfied
2	2012-13	satisfied	satisfied	satisfied
3	2013-14	satisfied	satisfied	satisfied
4	2014-15	satisfied	satisfied	satisfied
5	2015-16	satisfied	satisfied	satisfied

\* a) satisfied b)Not satisfied



- c. alumni and employers on the programmes and what is the response of the department to the same? **Satisfied**

**31. List the distinguished alumni of the department (maximum 10)**

S.No.	Academic year	Name of the distinguished alumni(student)	Profession/Industry
1	2009-13	NEELIMA	PARAXEL pharmaceutical industries
2	2009-13	RAVINDER RAJU	PFIZER INDUSTRIES
3	2009-13	VIPULA GOUD	NOVARTIS ,LTD.
4	2012-16	BHAVANI	REDDY LABS
5	2012-16	MADHURI	BABY STEM CELL

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

S.No.	Academic Year	National/International	Source of Funding
1	2011-12	National Seminar	CBIT
2	2012-13	National Seminar	CBIT
3	2013-14	National Seminar	CBIT
4	2013-14	National workshop	TEQIP-I
5	2014-15	National Workshop	TEQIP-I
6	2014-15	National Seminar	CBIT

- **Kindly give the information regarding guest lecturers/Invited talks conducted by for the past five years**

S.No	Title of the guest lecture/Invited talk	Date	Name of the Resource person	Organizing Department
1	Commercial prospects of nanomaterials in Indian scenario	29-10-2011	Dr TaTa Narsinga Rao	CBIT
2	Inorganic nanomaterials for biological applications	29-10-2011	Dr.S.V.Manorama(IICT)	CBIT



3	Nano particles for biomedical applications	29-10-2011	Dr.K.V.Rao	CBIT
4	Bio informatics applications and its future prospectives	06-09-2012	ProfK.Ulaganathan(CPMB)	CBIT
5	Technologies that are changing the face of biology and biotechnology in 21 <sup>st</sup> century	28-02-2013	Prof B.kavi kishore(OU)	CBIT
6	Emerging trends in bioinformatics	28-02-2013	Dr.USN.Murthy(IICT)	CBIT
7	Restoring sight using stem cell therapy	28-02-2013	Dr.Virender Sangwan(LVPEI)	CBIT
8	Microbes in the Antarctica	12-03-2013	Dr.S.Shivaji(CCMB)	CBIT
9	GM foods	28-09-2013	Dr.Kalpagam Polasa(NIN)	CBIT
10	Use of biochemistry principles in fermentation technology	27-09-2013	Dr.M.S.Mohammed Jaabir(NIT,Trichy)	CBIT
11	Types of fermentor and their applications	28-09-2013	Dr.Senthil kumar(NIT,Trichy)	CBIT
12	The fabrication of photo tubular reactor for the production of biodiesel	28-09-2013	Dr.TV.Rao(SPECTROCHEM)	CBIT
13		28-09-2013	Dr N.Madhusudhan rao	CBIT
14	Advanced methods in cell and molecular biology	07-03-2014	Dr.k.Sreenivasulu	CBIT
15	Biotechnological approach	29-09-2015	Dr.K.Sreenivasa rao(IIBT)	CBIT
16	Design of fermentors	26-02-2016	Dr.T.H.Rao	CBIT
17	Design of membranes in Down stream process	27-02-2016	Dr.S.Sreedhar	CBIT
18	BiologicalNetworkanalysis. An approach by graph theory	21-03-2016	Nita Parekh,(CCNSB,IIT,Hyd)	CBIT
19	Recovery of energy from solid waste materials	06-04-2016	Dr.K.Srinivas(Head,RAMKY)	CBIT



20	Hydrogen production from vegetable wastes	06-04-2016	Dr.S.Venkata Mohan	CBIT
21	Removal of toxic materials from waste by surface adsorption	06-04-2016	Dr.V.V.Basava Rao	CBIT

**33. List the teaching methods adopted by the faculty for different programmes.**

- using the model objects where-ever possible while explaining the concepts
- taking the possible equipment from the labs to the classroom while explaining the related topic/concept
- pictorial/video presentation of the concepts, where-ever possible, using LCD projectors
- making the NPTEL content (videos and other content) available for the easy access of the students through the Institute web site (link for library)
- taking the students for site visits for explaining the appropriate concepts
- arranging the guest lectures by industry experts, on the topics being taught in the class
- distribution of handouts on the concerned topic
- conducting tutorial classes
- encouraging the students for asking doubts in the class and off the class
- general motivation for attentive listening
- Group Discussions

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

By conducting every semester two MID Examinations and one main examination regularly helps to evaluate the students and which helps to meet the programme objectives and outcomes.

**35. Highlight the participation of students and faculty in extension activities.**

College has NSS (National student service cell) and Civil Engineering Department established PARVITRA Programme for the students and staff to participate in SWATCH BHARATH in every year as the motive of our beloved Prime minister of INDIA Sri.**Narendra Modi**.





**36. Give details of “beyond syllabus scholarly activities” of the department. NIL**

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

1. Every year Department of Biotechnology is Accredited / Graded by the reputed agency DNV ISO 9000:2008 (Document Enclosed).

2. Department of biotechnology is accredited by NBA in 2013.

3. Department of biotechnology is accredited by NAAC in 2011.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

S.No	Strengths	Weakness	Opportunities	Challenges
1	Qualifying & Experience Faculty	Compulsory Internship during vacation	This is abundant scope for carry out Research	Placement in Core organization
2	Labs are well furnished	Encourage & support paper presentation outside states	Center for Excellence	Biotech opportunities in USA Because of Present political scenario
3	LCD Projectors and Audio	Motivation for Entrepreneurship	Consultancy Work	Skilled Development as per Industry needs
4	Guest Lectures	Explore the Possibilities for future opportunities	Community service by using Biotechnology	Application of biotechnology in Health Sector
5	Broad syllabus Coverage	Establish Research Lab for PG & PhD	Innovation Centre	To make the student competency on par with International standards.



- 39. Future plans of the department. .** To start P.G. and PhD programmes in Biotechnology.



## Evaluative Report of the Department

**1. Name of the department & its year of establishment :**

**School of Management Studies & 1996**

**2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

MBA – Marketing, HR, & Finance

**3. Interdisciplinary courses and the departments involved**

S.No.	Subject	Department
1.	Managerial Economics and Accounting	ECE, EEE, Mech, Prod., Civil, IT, CSE
2.	Managerial Economics and Financial Analysis	MCA
3.	Principles and Practices of Management	Bio-Tech, Chemical
4.	Organisation Behaviour	MCA

**4. Annual/ semester/choice based credit system (programme wise)**

**First Semester**

Subject Code	Subject Name	Periods per week	Scheme of Examination				No. of Credits
			Duration in Hours	Maximum Marks			
				External	Internal	Total	
MB111	Management and Organizational Behaviour	4	3	75	25	100	3
MB112	Managerial Economics	4	3	75	25	100	3
MB113	Financial Accounting and Analysis	4	3	75	25	100	3
MB114	Marketing Management	4	3	75	25	100	3
MB115	Statistics for Management	4	3	75	25	100	3
MB116	Business Communication	4	3	75	25	100	3



MB 117	Information Technology Applications for Business	4	3	50	25	75	2
MB 118	Information Technology – Lab			25		25	1
<b>Total</b>						<b>700</b>	<b>21</b>

### Second Semester

Subject Code	Subject Name	Periods per week	Scheme of Examination				No. of Credits
			Duration in Hours	Maximum Marks			
				External	Internal	Total	
MB 121	Human resource management	4	3	75	25	100	3
MB 122	Business law	4	3	75	25	100	3
MB123	Financial management	4	3	75	25	100	3
MB124	Business research methods	4	3	75	25	100	3
MB125	Operations research	4	3	75	25	100	3
MB126	Operations management	4	3	75	25	100	3
MB 127	Decision support systems	4	3	75	25	100	3
<b>Total</b>						<b>700</b>	<b>21</b>



### Third Semester

Subject Code	Subject Name	Periods per week	Scheme of Examination				Credits
			Duration in Hours	Maximum Marks			
				External	Internal	Total	
	<b>Core Subjects</b>						
MB 211	Total Quality Management	4	3	75	25	100	3
MB 212	International Business	4	3	75	25	100	3
MB 213	Strategic Management Accounting and control	4	3	75	25	100	3
	<b>Elective - Finance</b>						
MB25 1	Investment Management	4	3	75	25	100	3
MB25 2	International Finance	4	3	75	25	100	3
	<b>Elective –HR</b>						
MB26 1	Performance and Compensation Management	4	3	75	25	100	3
MB26 2	Organizational Development and Change Management	4	3	75	25	100	3
	<b>Elective - Marketing</b>						
MB27 1	Product and Brand Management	4	3	75	25	100	3
MB27 2	Promotion and Distribution Management	4	3	75	25	100	3



#### Fourth Semester

Subject Code	Subject Name	Periods per week	Scheme of Examination				Credits
			Duration in Hours	Maximum Marks			
				External	Internal	Total	
	<b>Core Subjects</b>						
MB 221	Strategic Management	4	3	75	25	100	3
MB 222	Logistics and Supply Chain Management	4	3	75	25	100	3
MB 223	Entrepreneurial Development	4	3	75	25	100	3
	<b>Elective - Finance</b>						
MB 253	Financial Risk Management	4	3	75	25	100	3
MB 254	Banking and Insurance	4	3	75	25	100	3
	<b>Elective –HR</b>						
MB 263	Industrial Relations and Labour Laws	4	3	75	25	100	3
MB 264	Talent and Knowledge Management	4	3	75	25	100	3
	<b>Elective - Marketing</b>						
MB 273	Consumer Behaviour	4	3	75	25	100	3
MB 274	Services and Retail Marketing	4	3	75	25	100	3

#### 5. Participation of the department in the courses offered by other departments

S.No.	Subject	Offered by Department
1.	Managerial Economics and Accounting	ECE, EEE, Mech, Prod., Civil, IT, CSE
2.	Managerial Economics and Financial Analysis	MCA
3.	Principles and Practices of	Bio-Tech, Chemical



	Management	
4.	Organisation Behaviour	MCA

**6. Number of Teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)**

	Sanctioned	Filled
Professors	02	01
Associate Professors	04	01
Asst. Professors	10	10

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No of Ph D student s guided for the
1	Dr.S.Saraswathi	MBA, Ph.D	Head	Marketing & HR	17 years	3
2	Dr. Rama Chandra	M.Com., MBA., PhD	Professor	HR	37 years	10
3	Dr.V.Harileela	MBA,M.Phil, Ph.D	Assistant Professor	Finance	18 years	nil
4	Dr.T.S.Poorna Chandrika	MBA ,M.Phil, Ph.D	Assistant Professor(Senior)	HR,Marketing	16 years	nil
5	B.Lavanya	MBA(Ph. D) UGC-NET	Assistant professor	HRM/Marketing	7	Nil
6	K.Bhagya Lakshmi	MBA PH.D(pursuing)	Assistant Professor	Finance/HR	8 years	Nil
7	Mr.V.Srinivasa Rao	MBA, NET	Assistant Professor	Marketing	18 years	nil
8	Mr.P.Vara Prasad Goud	MBA	Assistant Professor	HR	4 yrs	nil
9	Caroline Talari	MBA	Asst. Prof	HR & Systems	1 yr - Teaching	Nil
10	Mrs.A.Surekha	MBA	Assistant Professor	Finance & Quantitative	2 yrs	Nil
11	Mrs.J.Mounika Reddy	MBA	Assistant Professor	Finance & Quantitative	2 yrs	Nil
12	Dr. K. Sowmya	Ph.D	Assistant Professor	Finance	7	Nil



13	Mr.Tulasi Ram	MBA	Assistant Professor	Finance	3	Nil
14	Mrs.Vasanthi	MBA	Assistant Professor	HR	12	Nil

**8. Percentage of classes taken by temporary faculty – programme-wise information Nil**

**9. Programme-wise Student Teacher Ratio 1:15**

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

Support Staff	Sanctioned	Filled
Computer Operator	01	01
Attender	01	01
<b>Total</b>	<b>02</b>	<b>02</b>

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

- Dr.S.Saraswathi was offered Career Award for Young Teachers (CAYT) by AICTE, Government of India, New Delhi, India to Dr.S.Saraswathi with sanctioned amount of Rs.10, 50,000 in the year 2008. F.No.1-51/RID/CA/23-07-08, dt.27/06/2008.
- Dr.S.Saraswathi was offered Seminar Grant by AICTE with sanctioned amount of Rs.1,50,000, F.No.7-35/RIFD/SG/POLICY-1/2013-14, dated:July 25, 2013.
- Dr.V.Harileela was offered Financial Assistance by AIMS in the year 2013 to organise a conference.

**13. Research facility / centre with : Nil**

- state recognition
- national recognition
- international recognition

**14. Publications:**

- Number of papers published in peer reviewed journals (national /international)
- Monographs
- Chapter(s) in Books





- Editing Books
- Books with ISBN Numbers with details of publishers
- number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average
- SNIP
- SJR
- Impact factor - range / average
- h-index

	2011-12	2012-13	2013-14	2014-15	2015-16	2011-16 Total
Publication per faculty	2	3	2	2	2	11
Number of papers published by faculty and students in peer reviewed journals	16	25	19	14	8	82
No of publications listed in International data base(for Ex: Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc )	NIL	NIL	NIL	NIL	NIL	
Monographs	NIL	NIL	NIL	NIL	NIL	
Chapter in	NIL	2	1	1	1	5



Books						
Books Edited	NIL	2 Prof.Aryasri Retailing in India (ISBN 9789350623305) Proceedings of National conference on Retailing in India, sponsored by Andhra Pradesh State Council of Higher Education, Government of Andhra Pradesh, August 13-14, 2013. Dr.V.Harileela Innovations in Services Quality Management, Lorven Publications-Hyd,	3 Prof.Aryasri . Behavioural Finance (ISBN 9788190705295) (Co-Editor Dr Sindhu, Assoc. Professor, SMS, JNTUH) Proceedings of National Conference on Behavioural Finance sponsored by Indian Council of Social Science Research, New Delhi, January, 22-23, 2014 Recent Trends in Training and Development, International Conference on Recent	1	NIL	6



		<p>ISBN: 978-81-907052-9-5, June 2013. (Edited)</p>	<p>Trends in Training and Development, February 6-7, 2014 (Co-editors: Dr Sindhu &amp; A.Santhosh Kumari) Industrial Relations: The Role of HR Professionals International Conference on Industrial Relations: The Role of HR Professionals sponsored by Friedrich Ebert Stiftung, Germany August 22-24, 2014. Dr.V.Harileela Service Quality Perception And Satisfaction In Retail Banking, LAMBERT</p>			
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			Academic Publishing , ISBN:98-3-659-41848-8 July,2013. (Authored) Dr.V.Harileela Security Analysis and Portfolio Management, Paramount Publishing House, New Delhi, ISBN: 978-93-26-8, August 2014. (Authored)			
Books with ISBN/ISSN numbers with details of Publishers	NIL	2  1. Microfinance Institutions in Andhra Pradesh – Challenges”, Financial Inclusion & Inclusive Growth – Prospect and Retrospe	3  Service Quality Perception And Satisfaction In Retail Banking, LAMBERT Academic Publishing , ISBN:98-3-659-41848-8 July,2013	1 Security Analysis and Portfolio Management, Paramount Publishing House, New Delhi, ISBN:978-93-26-8, August 2014	NIL	6



		ct,, V. Mary Jessica, V. Venkatra mana, ISBN No. 978- 93- 82163- 39-8, 2012. 2. Innovat ions in Services Quality Manage ment, Lorven Publicati ons-Hyd, ISBN: 978-81- 907052- 9-5, June 2013.				
Citation Index	0-5	0-1	0-3	0-3	0-3	0-5
SNIP	NIL	NIL	NIL	NIL	NIL	
SJR	NIL	NIL	NIL	NIL	NIL	
Impact factor	NIL	NIL	0-1	0-2.5	0-3	0-3
h-index	NIL	NIL	NIL	NIL	NIL	

2011-12

Dr.S.Saraswathi

1. "Perception of customers on the Performance of the Private Banks – A Study with Servqual", International Journal of Management and Business Studies, Vol.1,Issue.3, September 2011, p.95-99, ISSN: 2330-9519 (Online)/ISSN: 2231-2463.

Dr.A.R.Aryasri



2. MuralikrishnaKuppili, A.R.Aryasri, Enhancing the Performance of Management Consulting Firms Through Effective Partnership with Academies, Economic Development through Educational Excellence,2012, ISBN: 978-93-82062-62-2,

Dr.V.Harileela

1. Harileela.V “HR Outsourcing: A Comparative Analysis at the Entry and Higher Levels” in Zenith International Journal Of Multidisciplinary Research, volume 2, Issue 3, pp 224-236 April’12, ISSN: 2231-5780.

Smt.K .Bhagyalakshmi

2. „A study on Tourism: Domestic and foreign tourist arrival in India in International journal innovative Research and Development, Vol-1, Issue-6, September issue 2012.

Dr.K.Sowmya

3. “Innovation Culture among Andhra Pradesh SSIs”, Mustang Journal of Business and Ethics, Vol. 2, 2011, Publication of Mustang Journals, ISSN: 1949-1735 pp. No. 129-142.

2012-13

Dr.S.Saraswathi

1. Measuring Customers’ Perception on Service Quality in Indian Banking Sector”, International Journal of Innovative Research and Development (IJIRD), ISSN: 2278-0211, August 2012, Vol.1, Issue 5, p.307.
2. What Motivates Employees? An Empirical Study on Software Organisations”, International Journal of Engineering, Science and Research (IJESR), August 2012, ISSN No. 2231-5535, Special Edition.

Dr.A.R.Aryasri

3. MuralikrishnaKuppili, A.R.Aryasri, Financial Analysis of Build-Operate-Transfer (BOT) Model: A Case study for Semi-conductor Industry Pacific Business Review International, Sept.2012, ISSN 0974-438X
4. Murali Krishna KUPPILI, Ramachandra ARYASRI, Strategies for Startups during Recession: A Case Study for Software Services



Organization, International Journal of Research in Engineering, IT and Social Sciences (IJREISS) Volume 2, Issue 11, Nov. 2012 ISSN: 2250-0588.

5. MuralikrishnaKuppili, A.R.Aryasri, *Strategic Approach for Successful Implementation of Management Information System for Manufacturing Industry*, CPMR-IJT: International Journal of Technology, July-2012, e-ISSN: 2277- 4629; p-ISSN: 2250-1827)

Dr.V.Harileela

6. "Inter relationship between Service Quality, Customer Satisfaction and Loyalty: An Empirical Analysis of Banking Sector" International Journal of Innovative Research and Development, volume 2, Issue 5, pp1729-1746, May 2013, ISSN: 2278 – 0211 Online.

Smt.B.Lavanya

7. "Crafting the service scope for the Educational services – An Empirical study", International Journal of Innovative Research & Development (IJIRD), vol-1 issue 5, Aug 2012, ISSN: 2278-0211.
8. "Strategies to cope up work place stressors: An empirical study in educational institution", of Research in commerce, IT & Management (IJRCM) vol.2 issue 5, Dec 2012, ISSN: 2231-international Journal 5156.

Smt.K.Baghyalakshmi

1. K .Baghyalakshmi ,A study on Gold future market, International Research Journal of Commerce, Business and Social Sciences, Vol-1.Issue 10, January 2013, ISSN: 2277-9310
2. K .Baghyalakshmi ,A Study on IMPACT OF FINANCIAL DERIVATIVES WITH SPECIAL REFERENCE TO FUTURES) ON INDIAN CAPITAL MARKET, International Research Journal Of Commerce , Business and Social Sciences, Vol-II, Issue 3, June 2013

2013-14

Dr.S.Saraswathi

3. "Job Design in Software Sector – An Empirical Analysis", International Journal of Business and Management Studies, ISSN: 2158-1479: 2(1): p583–589 (2013).



Dr.V.Harileela

4. Harileela.V, "Student Perceptions on Educational Service Quality- An Empirical Study", International Journal of Innovative Research and Development, volume 2, Issue 7, pp160-166, July 2013, ISSN: 2278 – 0211 Online
5. Harileela.V, "Foreign Direct Investment In Indian Retailing Sector- Prospects And Retrospect" Zenith International Journal Of Business Economics And Management Research, Vol3, Issue 8, pp. 19-33, August 2013, ISSN: 2249-8826 ONLINE.

Dr.T.S.PoornaChandrika

6. Published a paper titled " Role of women and Education-Impact on Sustainable Development" in the International Journal of Innovative Technology & Adaptive Management Feb ISSN- 2347 - 3622. & impact Factor - 0.698.

Smt.B.Lavanya

7. "A study on perceived Benefits from modes of industry. Academia interface", ABHINAV- International Monthly Refereed Journal of Research in Management & Technology, Vol-II, June 2013, ISSN NO: 2320-0073, Impact factor 0.0812.

Smt.K .Bhagyalakshmi

8. „A Study on Performance of Financial Derivatives Futures in Indian Capital Market, in management and Social Sciences its Impact on Sustainable development International Journal of Innovative Technology and Adaptive Management, ISSN 2347 – 3622, Feb Issue 2014

Sri.V.SrinivasaRao

9. "Green Marketing and Its Impact on Sustainable Development", International Journal of Innovative Technology & Adaptive Management (IJITAM) ISSN: 2347-3622, Volume-1, Issue-5, February 2014.

Sri.Vara Prasad Goud

10. "Employee Retention For Sustainable Development", International Journal of Innovative Technology and Adaptive Management, February, 2014, ISSN 2347 – 3622.





Smt.A.Surekha

11. “Role of Women Entrepreneurship Sustainable development of India”, International Journal of Innovative Technology & Adaptive Management (IJITAM), volume-1, Issue-5, February 2014, ISSN: 2347-3622.

2014-15

Dr.V.Harileela

12. Harileela.V, “Service Quality Delivery and its Impact on Customer Satisfaction in Indian Banking Sector” IFRSA Business Review(IBR), volume 4, Issue 2, pp.240-249, June 2014, e-ISSN 2249 5444( online) p-ISSN 2249 8168 ( print)

Dr.T.S.PoornaChandrika

13. Published a research paper titled, “HR Outsourcing ----A Comparative Study between IT & Pharmaceutical Sectors” in the International Journal of Engineering Technology Management and Applied Sciences (IJETMAS), Special Issue, September 2015, ISSN-2349-4476 .ISBN NO :13-978-93-85880-71-1 10-93-85880-71-3,Impact Factor=2,114.
14. Published Research paper titled, “The Impact of Social Media Marketing on the buying behavior of the Consumers “in the International Conference on Strategies For Business Excellence :ChallengesandOppurtunities (ICSABE-15) December 18th and 19th December. ISBN :978 93 8303829 9.
15. Published a research paper titled,”A study on Jobsatisfaction”of employees of Hospital sector in the twin cities of Hyderabad and Secunderabad “in IJETMAS Journal bearing ISSN NO:2349-4476.Impact no:2.114

Smt.B.Lavanya

16. “Role of Technological, advances in enhancing retail efficiency”, International Journal of Management Research, September 2014.

Smt.K.Bhagya Lakshmi

17. K .Bhagyalakshmi ,A Study on Performance of Financial Derivatives Futures in Indian Capital Market, in management and Social Sciences its Impact on Sustainable developmentInternational Journal of Innovative Technology and Adaptive



Management, ISSN 2347 – 3622, Feb Issue 2014

18. K .Bhagyalakshmi, A Study on Impact of Firms Financial Performance of Indian Companies in IJMS. March Volume –II 2015
19. 3. K .Bhagyalakshmi ,Factors determining capital structure of Indian companies inVol.03 Issue-06, (June, 2015) ISSN: 2321-1784 International Journal in Management and Social Science (Impact Factor- 4.358)

2015-16

Dr.V.Harileela

20. “Impulsive Buying Behaviour tendencies in Developing Markets: With special reference to Demographic Characteristics of Consumers(A Preliminary Study)” ,International Journal of Engineering Technology Management and Applied Sciences (IJETMAS), Special Issue, pp361-370, September 2015, ISSN-2349-4476.

Dr.T.S.PoornaChandrika

21. Value Added Services---Trends of HR Outsourcing in the Information Technology Sector in the International Journal of Engineering Technology, Management and Applied Sciences
22. January 2016, Volume 4, Issue 1, ISSN 2349-4476, IMPACT Factor-2.24

Smt.K.Sowmya

23. “Consumer buying behavior towards organized retailing from unorganized retailing: with reference to Hyderabad city”. Research Journal of Commerce & Behavioral Science, Vol. 4, Number 11, September 2015, The International Journal Research Publications, ISSN: 2251 1547 pp. no. 50-56.
24. “Innovation Culture Among Women Entrepreneurship In SMEs”. International Journal of Research Excellence in Management, Vol. 3, Issue 4, 2016, Publication of Sri India, ISSN: 2278-7089 pp. no.

NATIONAL JOURNALS PUBLISHED

S.No	Year	Number	Faculty Name
1	2010-11	03	1.Dr.A.R.Aryasri 2.Dr.V.Harileela



2	2011-12	06	1.Dr.S.Saraswathi 2.Dr.A.R.Aryasri 3.Dr.V.Harileela 4Dr.T.S.Poornachadnrika
3	2012-13	07	1.Dr.S.Saraswathi 2.Dr.A.R.Aryasri 3.Dr.V.Harileela 4.Dr.T.S.Poornachadnrika 5.Sr.V.Vara Prasad Goud
4	2013-14	03	1.Dr.T.S.Poornachadnrika
5	2014-15	NIL	
6	2015-16	NIL	

### 2010-11

Dr.A.R.Aryasri

1. S.SumanBabu, Impact of Flexi-time a work-life balance practice on employee stress reduction in IT sector-Indian Perspective,CAMS Journal of Business Management and Research 2010

Dr.V.Harileela

2. Harileela.V, “A Gap Analysis of Service Quality Perception in Private Sector Banks- An Empirical Study” EB Journal of Management and Research, Issue-1, Vol.4, pp 70-83, April-June 2010ISSN: 0974 1755 (print).
3. Harileela.V, “ A Comprehensive Model of Service Quality, Customer Satisfaction and Performance of Retail Banking” EB Journal of Management and Research, Issue-1, Vol.4, pp. 67-80, Jan-2011,ISSN:0974 1755.

### 2011-12

Dr.S.Saraswathi

4. “Testing Service Quality Dimensions on the Public Banking Sector - An Empirical Study”, Namex International Journal of Management Research, Vol.1, Issue No., December 2011, p.130-139, ISSN 2277-2049.

Dr.A.R.Aryasri

5. Mohan Kumar V.,A.R.Aryasri Problems and Prospects for Indian



MNCs in the IT Sector in the era of Globalisation, Technology Spectrum, Vol.5, No.3 Nov. 2011, ISSN 0974-6854

Dr.V.Harileela

6. Harileela.V, “Methodologies for innovation and improvement of services in tourism” EARTH NITHM Journal of Tourism and Hospitality Management, Volume 2, issue 1, pp 64-75, Jan-June 2012, ISSN 2231-6213.

Dr.T.S.PoornaChandrika

7. Paper published titled ”Role of Viral marketing in creating Consumer’s Brand awareness” in the “ “Emerging Markets, strengths&weaknesses” in Nagpur, Excel publications bearing ISBN NO:9789382062899.
8. Published a paper titled “Strategic Business Management decisions for Business Excellence in O.U. national conference ,” Project Management--- A Tool for Strategic Competence in May-2012, ISBN:978-81-7800-300-9

2012-13

Dr.S.Saraswathi

9. “Leadership styles in Organizations – An empirical study”, Indian Journal of Applied Research (IJAR), ISSN-2249-555X, Vol.1, Issue: 11, August 2012, 73-75

Dr.A.R.Aryasri

10. MuralikrishnaKuppili,A.R.Aryasri Financial Analysis of Build-Operate-Transfer (BOT) Model: A Case study for Semi-conductor Industry,Pacific Business Review International, Vo.5 Issue 3 September 2012, ISSN 0974-438X Impact factor (2014) 4.029

Dr.T.S.PoornaChandrika

11. Published a full paper titled “Service Quality Management with Reference to Hospitality & tourism sector” in the book “ Innovations in Services Quality Management “ organized by School Of Management Studies in January 31st—1st February. 2013.ISBN;978-81-907052-9-5.
12. Published a research paper titled”Performance Management decisions for Business Excellence with special Ref to ILTD,DIV



OF ITC,Chirala.in the Journal of Management “AADHYAM”.Jan-June 2013. ISSN: 2278-4152.

Sri.V.Vara Prasad Goud

13. P.VaraprasadGoud, “Motivational Teaching To Inspire Students”Modern Teaching Techniques in management, 2012, ISBN 978-81-910003-0-7.
14. P.VaraprasadGoud, “Emotional Intelligence: A Success Key For Organisations” Dnyanganga Management Journal, March 2012, ISSN-2277-453X.
15. P.VaraprasadGoud, “Managers Ought To Be Leaders”, Apeejay School Of Management, October 2012. ” ,E-book, ISBN:978-81-906991-7-4

2013-14

Dr.T.S.PoornaChandrika

3. Published a research paper titled, “Corporate Engagement in Management Education”” in 26th AIMS Annual Management Convention 2014 ISBN NO:978-93-5142-889-3
4. Published a research paper titled, “Work Life Balance –A Comparitive Study Between IT & Pharmaceutical sectors in Hyderabad &Secunderabad. in the journal of Global Management Outlook ,Telangana university ISSN NO:22773789.
5. Published a research paper titled,” HR Outsourcing Services in the Pharmaceutical Sectors” in the Indian Journal Of Research in Commerce, Management, Engineering And Applied Science October 2015 ISSN:2454-6593.

**15. Details of patents and income generated :** Nil

**16. Areas of consultancy and income generated:** Nil

**17. Faculty recharging strategies**

Reimbursement provided by the college for attending seminars, Workshops and Conferences both local and non-local. Training needs of the faculty are identified and send them to orientation courses, FDPs and Refresher Course.

**18. Student projects**

- percentage of students who have done in-house projects including inter-



departmental : Nil

- percentage of students doing projects in collaboration with industries / institutes : Nil

**19. Awards / recognitions received at the national and international level by**

- Faculty**
- Dr.S.Saraswathi was offered Career Award for Young Teachers (CAYT) by AICTE in the year 2008 for three years with sanctioned amount of Rs.10,50,000.
- Prof, A.Aryasri SMS, received Distinguished Academician award by Pentagram Research Centre, India. Feb.15, 2012
- Doctoral / post doctoral fellows** :Nil
- Students** :Nil

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

**a) National**

- A Two-Day National Conference on Operations Research and Management -A Strategy towards Competitive Advantage (NCORM 2016) (Supported by TEQIP-II) held on 28th -29th January, 2016 at CBIT, Hyd.
- A Two-Day AICTE sponsored National Conference on Management and Social Sciences – Its Impact on Sustainable Development” on 25th – 26th October, 2013 at CBIT, Hyd.
- A Two-Day National Conference on Innovations in Services Quality Management in association with AIMS on 31st Jan – 1st February 2013.
- A one day Seminar on “Work-Life Balance: Women in Engineering” was organised on 8th March 2014.
- A Two day National Workshop on Personal Effectiveness for organisational development was organised on Feb 27<sup>th</sup> and 28<sup>th</sup>, 2015 (supported by TEQIP II)

**b) International**

-Nil-

**21. Student profile course-wise:**

Name of	Applications	Selected	Pass percentage
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the Course	received	Male	Female	Male	Female
MBA	143	67	53		

## 22. Diversity of Students

Name of the Course	% of students from the college	% of students from the state	% of students from other States	% of students from other countries
MBA	NIL	120	Nil	Nil

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

No Information

## 24. Student progression

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	50%
• Other than campus recruitment	30%
Entrepreneurs	20%

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	
from other universities within the State	
from other universities from other States	

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. :03



**27. Present details about infrastructural facilities**

- a. **Library** : Library with advanced books and e-resources
- b. **Internet facilities for staff and students** : 120 computers with Internet facility
- c. **Total number of class rooms** :05
- d. **Class rooms with ICT facility**: 5 class rooms and 1 Seminar Hall
- e. **Students' laboratories** : 2 Labs
- f. **Research laboratories** :Nil

**28. Number of students of the department getting financial assistance from College.** NIL

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, need assessment exercise undertaken before the development of new program. Market Trends and Technological Developments were considered.

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?  
YES, The department conducts Pre-Board of Studies meeting to elicit views of the faculty on relevance and adequacy of the topics to be included in the syllabus.
- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
- c. alumni and employers on the programmes and what is the response of the department to the same?

**31. List the distinguished alumni of the department (maximum 10)**

Mr.K.Rajesh  
Mr.M.Bhanu Kiran  
Mr.K.Gopichand  
Mr.M.Suresh Kumar  
Ms.Sri Vidya  
Mr.Srikar  
Ms.Shanti  
Ms.Varoodhini  
Mr.Praveen Kumar  
Mrs.Vanadana Amar

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**





- Lecture on “Qualities of Successful Manager in the Corporate World” for MBA students by Dr. A. Chandra Mohan, Professor, School of Management Studies, SRM University, Chennai, India, held on 19<sup>th</sup> November, 2015
- A lecture on ‘Entrepreneurship’ by Dr.P.Jyothi, Professor, University of Hyderabad on 29th September 2015.
- Industrial visit for MBA III semester on 9th September 2015 to BHEL, RC Puram.
- Guest Lecture by a resource person from Bombay Stock Exchange on “Capital Markets” for MBA II year and I year students today (i.e. 15th September 2015) at 1.45 pm in M-Block Seminar Hall.
- The SAP lecture is also scheduled on 16th September and time would be based upon the completion of Placement drive.
- On 20th August 2015 (i.e. Friday) interaction session on “Career in US Taxation” by Deloitte is scheduled at 2.15 pm, all faculty and students are informed to assemble at 2.15 pm in M-block SMS/Civil Seminar Hall.
- StockMIND session by ICICI was conducted on 20th February 2015.
- A three member team from Dr.Reddys Labs led by Mr.Simhachal Mohanty, Director Taxation conducted a session on Union Budget in the month of March 2015.
- Guest Lecture on “Integrating Technology with Entrepreneurship and Employability” was conducted on 26th September by Sri.Shankar Muralidharan, AGM, Marketing & Communications, Woxsen School of Business, Hyderabad.
- Guest Lecture on “Programming the Mind” (Enlightening & Empowering Minds through Holistic Education) by Prof.R.S.Salaria, Educator, Author & Motivator on 4-06-2014.
- Guest Lecture on Financial and Accounting Concepts by G.V.Rao, Chartered Accountant on 15th April 2014.
- Guest Lecture on Business Etiquettes by Dr.T.Venkatesh, Assistant General Manager, JNIDBF on 19-12-2013.
- Guest Lecture on Depository System by Shri.A.Goverdhan, Chartered Accountant and Consultant of M/s Finedu Software Solutions Limited (FSSPL) on 8-11-2013.
- Guest Lecture on “Statistical Tools in Research” by Dr.Ritanjali Majhi, NIT Warangal on 5-01-2013.
- Guest Lecture on “Emerging Opportunities for MBA’s in India” by A.Govardhan Chartered Accountant and Consultant of M/s Finedu Software Solutions Limited (FSSPL) on 27-11-2012.
- Guest lecture on “Non-parametric and Parametric Tests” by



Dr.G.V.K.Acharyulu on 5-5-2011.

- Guest Lecture on “Role of Case Studies in Management Education” by Dr.M.Nanda Kumar on 3-05-2010.
- Guest Lecture on “Role of ISO in Total Quality Management” by Dr.P.Ravindra Reddy on 13-11-2010.
- Guest Lecture on “Financial Risk Management – Options” by Prof.Nageswar Rao on 11-11-2010.
- Guest Lecture on “Becoming a Better Student” by Prof.Viswanatham on 2-11-2010.

**33. List the teaching methods adopted by the faculty for different programmes.**

S.No.	Teaching Methods
1.	Lecture
2.	Referred Cases
3.	Referred Newspapers & magazines
4.	Statistical tools for decisions
5.	Audio-visuals
6.	Exposure to practical situations
7.	Group Discussions
8.	Power Point presentations
9.	Audio-visuals for soft skills

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

All the staff members of the concerned subjects will interact frequently and arrive at consensus on the teaching materials and pedagogy in line with the program objectives. Even the question papers are designed with particular reference to the course objectives and learning outcomes are also thus monitored.

**35. Highlight the participation of students and faculty in extension activities.**

- a. Blood Donation
- b. Tree Plantation
- c. Clean and Green
- d. Awareness program on Traffic and Rules etc.

**36. Give details of “beyond syllabus scholarly activities” of the department.**



Very frequently, the experts from industry are invited to share their experiences and subject insights and all these lectures contain the practical insights within the framework of theoretical concepts from the syllabus. These lectures also give rise to opportunities for internships, participation in workshops, seminars and conferences besides presentation of research papers in the symposia/conferences organized by the professional organisations. Also the students regularly organize and many of them participate in the Management Fests that contain various events in different modules of HR, Finance, Marketing and Systems.

- 37. State whether the programme/ department is accredited/ graded by other agencies. Give details.** NO
- 38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**SWOC analysis**

<p><b>Strengths</b>          Updated curriculum          Dual Specialization          Attract good students          Good career opportunities          Qualified Faculty          Innovative methods of Learning and Teaching process          Community services</p>	<p><b>Weaknesses</b>          Limited Facilities          Limited Diversity of students          Limited Financial resources</p>
<p><b>Opportunities</b>          Entrepreneurship          Up gradation of Faculty          Collaboration          Opportunity for New Infrastructure</p>	<p><b>Challenges</b>          Variations in Employment Opportunities          High competition for students          Limited funding for students          Specialized faculty recruitment          Inability to get specialized faculty</p>

- 39. Future plans of the department.**
1. Revise the syllabus as per the requirement of the Industry
  2. Set up laboratories to enhance soft skills of the students
  3. To organize the FDP's, National and International conferences, Workshops etc.
  4. To enhance Research and Development
  5. To enter MoU with Industry and Universities
  6. To improve Placement ratio with the help of Network particularly



alumni

To purchase Software to make students learn and apply in the practical world; etc



## Evaluative Report of the Department

**1. Name of the department & its year of establishment :**

**Master of Computer Applications & 1991.**

**2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

UG : Nil

PG : Master of Computer Applications

**3. Interdisciplinary courses and the departments involved**

Year	Subject	Departments involved
2010-11	Accounting & Financial Management	School of Management Studies.
	Modern Economic Analysis	School of Management Studies.
2011-12	Probability & Statistics	Dept. of Maths & Humanities
	Accounting & Financial Management	School of Management Studies
	Modern Economic Analysis	School of Management Studies
2012-13	Probability & Statistics	Dept. of Maths & Humanities
	Accounting & Financial Management	School of Management Studies.
	Modern Economic Analysis	School of Management Studies.
2013-14	Probability and Statistics	Dept. of Maths & Humanities
	Accounting & Financial Management	Dept of SMS
2014-15	Probability & Statistics	Dept. of Maths & Humanities
	Accounting & Financial Management	School of Management Studies.
2015-16	Data warehousing and Data mining	CSE



**4. Annual/ semester/choice based credit system (programme wise)**

Semester based Choice based credit system

**5. Participation of the department in the courses offered by other departments**

Year	Staff Participation in courses of other departments
2010-11	G.N.R. Prasad handled the subject Supply Chain Management for MBA course
2011-12	NIL
2012-13	NIL
2013-14	NIL
2014-15	Dr.D.L.S. Reddy taught a subject "Data warehousing & Data Mining " for M.Tech (CSE) in Dept. of CSE.
2015-16	Dr. D.L.Sreenivas Reddy handled the subject in M.Tech and MBA Course G.N.R. Prasad handled the subject Decision Support Systems for MBA course Dr. D.L.Sreenivas Reddy handled the subject in ITAB and MS Office Lab

**6. Number of Teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

Year		Sanctioned	Filled
2010-11	Professors	01	01
	Associate Professors	02	04
	Asst. Professors	03	04
2011-12	Professors	01	01
	Associate Professors	02	04
	Asst. Professors	03	03
2012-13	Professors	01	01
	Associate Professors	02	04
	Asst. Professors	03	04
2013-14	Professors	01	01
	Associate Professors	02	04
	Asst. Professors	03	05
2014-15	Professors	01	01



	Associate Professors	02	03
	Asst. Professors	03	04
2015-16	Professors	01	00
	Associate Professors	02	04
	Asst. Professors	04	04

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./ D.Litt. / Ph.D./ M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.K.Sagar	Ph.D	Associate Professor & Head, Dept.	CSE	21	NIL
Sri.M.Kalidas	M.Tech, [Ph.D]	Associate Professor	CSE	27	NIL
Sri.D.Jayaram	M.Tech, [Ph.D]	Associate Professor	CSE	18	NIL
Sri.G.N.R.Prasad	M.Phil, [Ph.D]	Associate Professor	Computer Application	19	NIL
Dr.D.L.S.Reddy	Ph.D	Associate Professor	CSE	15	NIL
Sri.M.Ramchander	M.Tech, [Ph.D]	Assistant Professor	CSE	07	NIL
Sri.P.Krishna Prasad	MCA, [M.Tech]	Assistant Professor	CSE	07	NIL
Smt.G.Kalpana	M.Tech	Assistant Professor	CSE	09	NIL
Sri.S.S.P.Kumar	M.Tech	Assistant Professor	CSE	09	NIL

**8. Percentage of classes taken by temporary faculty – programme-wise information : NIL**

**9. Programme-wise Student Teacher Ratio : NIL**

**10. Number of academic support staff (technical) and administrative**



**staff: sanctioned and filled**

No. of Non-Teaching positions sanctioned : 03

No. Of non-teaching positions filled : 03

S.No	Name of the Staff	Qualifications	Designation
<b>Technical staff</b>			
1	Smt.T.S.Praveena	M.Sc., M.Tech	Programmer
2	Sri.V.Kondal Reddy	M.Sc., (M.Tech)	Programmer
<b>Administrative staff</b>			
3	Sri.E.Vittal	--	Attender

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.** NIL

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

PhD: 2, M.Tech: 5 ,MCA : 1, MPhil: 1

**13. Research facility / centre with :** NIL

- state recognition
- national recognition
- international recognition

**14. Publications:**

- Number of papers published in peer reviewed journals (national /international)

ITEMS	2011-12	2012-13	2013-14	2014-15	2015-16
International Journals published	NIL	11	02	01	11
National Journals published	NIL	NIL	NIL	NIL	01
International Conferences published	NIL	NIL	NIL	01	03
National Conferences published	02	05	05	03	08





**Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

- **Monographs** :NIL
- **Chapter(s) in Books** :NIL
- **Editing Books** :NIL
- **Books with ISBN Nnumbers with details of publishers**
- **number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**
- **Citation Index - range / average**
- **SNIP**
- **SJR**
- **Impact factor - range / average**
- **h-index**

Dr.D.L.Sreenivas Reddy wrote a Book on "Novel Outlier Analysis Methods to Improve Classifier accuracy", Lambert, Germany, ISBN: 978-3-659-75462-3

Citation Index	:	0 - 20
SNIP	:	NIL
SJR	:	NIL
Impact factor	:	0 - 3
h-index	:	0 - 10

2011-12

Papers published

**INTERNATIONAL JOURNALS**

1. D.Jayaram published a paper entitled "An Overview Of Optical Character Recognition Systems Research On Telugu Language" in International Journal of Science and Advanced Technology in Volume 2, Issue 9 pp. 23-29, Sept. 2012. IMPACT FACTOR: WORKSHOP ORGANIZED

1. D.Jayaram was the Coordinator for a workshop "Information Security and Ethical Hacking" on 2nd & 3rd Feb. 2012 at CBIT.

STTP/ Refreshers courses / FDPs/ Orientation courses attended

1. P.Krishna Prasad attended a Faculty Development Programme on "A Practical & Industry Approach to Advanced Software Engineering" organized by University College of Engineering, OU, conducted by TCS Ltd., on 25th May 2011.

2. P.Krishna Prasad attended a Faculty Development Programme on "Embedded Systems Concepts and Engineering Technologies" organized by University College of Engineering, OU, conducted by TCS Ltd., on 26th May 2011.

2012-13



#### NATIONAL CONFERENCES PUBLISHED

1. G.N.R.Prasad presented a paper entitled "Handling Network Failures Through Software in an Online Examinations" inCCAES-2012 held in 20<sup>th</sup> - 21<sup>st</sup> April 2012 at CBIT.
2. G.N.R.Prasad presented a paper in National Conference on "DATA MINING" organized by Dept. of CSE, CBIT on 28<sup>th</sup> April 2012.

#### CONFERENCES/ WORKSHOPS/ SEMINARS ATTENDED

1. G.N.R.Prasad attended a One day National Conference on "Intelligent Systems" organized by Department of CSE, CBIT on 10th Nov. 2011 on the eve of Rough Set Day.
2. P.Krishna Prasad participated in the Two day National level workshop on "Resent Trends & Research Opportunities in Image Processing under TEQIP-II" organized by VCE, 24th & 25th August 2012.

#### WORKSHOPS / SEMINARS ORGANIZED

1. M.Ramchander was the Coordinator for a workshop "Information Security and Ethical Hacking" on 2<sup>nd</sup> & 3<sup>rd</sup> Feb. 2012 at CBIT.
2. P.Krishna Prasad was the Coordinator for a workshop "Information Security and Ethical Hacking" on 2<sup>nd</sup> & 3<sup>rd</sup> Feb. 2012 at CBIT.

#### STTP/ Refreshers courses / FDPs/ Orientation courses attended

1. M.Ramchander participated in a Two Day National Workshop on "Advances in Information Security" under TEQIP-II during 2nd and 3rd August 2013, at VCE, Hydeabad.
2. M.Ramchander participated in the UGC Sponsored Orientation Course in organized by Academic Staff College, OU, Hyderabad from 3-07-13 to 31-07-13.
3. P.Krishna Prasad Participated a Two Day National Workshop on "Advances in Information Security" under TEQIP-II during 2nd and 3rd August 2013, at VCE, Hydeabad.
4. P.Krishna Prasad Participated in the UGC Sponsored Orientation Course in organized by Academic Staff College, OU, Hyderabad from 3-07-13 to 31-07-13.

2013-14

#### Paper Publications

##### International Journals

1. G.N.R Prasad presented a paper titled "Mining Previous Marks Data to Predict Students Performance in Their Final Year Examination " in Inter National Journal IJERT, Volume-2, Issue 13, Feb. 2013

##### National Conferences Attended:

2. G.N.R.Prasad presented a paper titled "A Frame to Implement Mobile Government Visitor System at Rastrapathi Bhavan, India" at National conf. by SMS Management and Social Sciences - Its impact on Sustainable Development, 25th, 26th October 2013.



3. G.N.R.Prasad Presented a paper titled "Evaluation of the Performance of Ant Colony Optimization Algorithms" at National conf. on Resent Trends in Information Technology 2013, 22nd & 23rd March 2013
4. G.N.R.Prasad presented a paper titled "SITAPAL-An Expert System using Fuzzy Logic" at National conf. on Resent Trends in Information Technology 2013, 22nd & 23rd March 2013
5. G.N.R.Prasad Presented a paper titled "Challenges to Implement M-Governance in India" at National conf. on Innovations in Services Quality Management, 31st Jan. to 1st Feb. 2013.
6. G.N.R.Prasad presented a paper titled "A Generic Framework M-Governance Implementation" at National conf. on Innovations in Services Quality Management, 31st Jan. to 1st Feb. 2013.
7. G.N.R.Prasad presented a paper titled "Towards the Application of Swarm Intelligent for knowing Terrorist Movement " at National conf. on Emerging and Innovations Trends in Computer Science at VCE, 1st & 2nd 2013.

#### National Workshop Organized

8. D.Jayaram was the Coordinator for a Two Day National Level Workshop on "Web Technologies And Scripting Languages" on 26th & 27th April 2013 at CBIT.

#### Conferences Attended

9. G.N.R.Prasad attended a one day workshop on "Research Opportunities in Computer Science & Information Technology" organized by by dept of IT, 06th & 7th Feb, 2013.

#### STTP/ Refreshers courses / FDPs/ Orientation courses attended

10. P.Krishna Prasad Participated in the UGC Sponsored Refresher Course "Software Engineering and Design Patterns" from 03-03-2014 to 22-03-2014 at JUTU Hyderabad.

2014 -15

#### Conferences/ Workshops Attended

1. D.Jayaram attended a National Level Workshop on "Next Generation Devices and Computed" on 28<sup>th</sup> & 29<sup>th</sup> Nov. 2014 conducted by department of CSE at CBIT.
2. G.N.R. Prasad has participated and rendered meritorious services for "Webcasting" in connection with General Elections - 2014 on 30-04-2014



3. G.Kalpana participated in two day workshop on "Next Generation Devices and Computing " conducted by department of CSE, CBIT, 28th-29th November 2014.

#### STTP/ Refreshers courses / FDPs/ Orientation courses attended

1. Ms. G.Kalpana Attended TEQIP sponsored one week In-House training on "Faculty Development Programme" organized in CBIT, 6th-11th January 2014.
2. Ms. G.Kalpana participated in the Three day Faculty Development Programme on "English for Effective Communication" organized by department of Maths & Humanities, CBIT, 5th-7th August 2014.
3. Sri. B.Srinivas attended TEQIP sponsored one week In-House training on "Faculty Development Programme" organized in CBIT, 6th-11th January 2014.
4. Sri. B.Srinivas attended in the Three day Faculty Development Programme on "English for Effective Communication" organized by department of Maths & Humanities, CBIT, 5th-7th August 2014.

2015-2016

#### Paper Publications

##### International Journals

1. D.Jayaram published a paper “ Text extraction from hoardings” in IJIERE, Volume 3, Issue 6 , PP 58-64, June 2016. Impact factor 3.47.
2. Dr.D.L.S.Reddy “Comparison of Classifiers Accuracies from FAVF and NOFI for Categorical Data”, Springer(SCOPUS), vol.339, no.2, 2015, pp. 113-121.  
IMPACT FACTOR : 1.853
3. Dr.D.L.S.Reddy “Countering Malware Propagations in Delay Tolerant Networks Using Game Analytics”, IJRAT, Vol 2, 2015, pp.102-106.  
IMPACT FACTOR : 2.614
4. Dr.D.L.S.Reddy, “TDH: Accuracy- Constrained Privacy- Preserving Access Control Mechanism for Relational Data”, IJMETMR, Vol 2, 2015, pp. 166-171.  
IMPACT FACTOR :2.6250
5. Dr.D.L.S.Reddy, “An Analysis of Educational Data Mining (EDM) in Advanced Education System”, IJSR, Vol 2013, 2015, pp. 2149-2153.  
IMPACT FACTOR :5.61
6. Dr.D.L.S.Reddy “A Model to Find Outliers in Mixed-Attribute Datasets using Mixed Attribute Outlier Factor”, IJCSI, vol. 10, no.5, 2014, pp. 215-219.  
IMPACT FACTOR :0.242
7. Dr.D.L.S.Reddy, “A Model for Improving Classifier Accuracy using Outlier Analysis Methods pp. 21-26” Artificial Intelligence and



Machine learning, AIML, pp. 21--27, September 2015. IMPACT FACTOR :1.533

8. B.Srinivas published a paper entitled "Survey on Implementation of Column Oriented No SQL Stores (Bigtable & Cassandra)" in International Journal of Computer Engineering in Recent Trends (IJCERT), Volume 2, Issue 8, pp. 463-469, August 2015.

**15. Details of patents and income generated :NIL**

**16. Areas of consultancy and income generated :NIL**

**17. Faculty recharging strategies**

**18. Student projects**

- percentage of students who have done in-house projects including inter-departmental
- percentage of students doing projects in collaboration with industries / institutes

Year	Programme	Students who have done projects	
		In-house projects including interdepartmental	In collaboration with industries or institutes
2012-13	MCA	53 (100%)	Nil
2013-14	MCA	24 (100%)	Nil
2014-15	MCA	53 (100%)	Nil
2015-16	MCA	37(100%)	Nil

**19. Awards / recognitions received at the national and international level by :NIL**

- Faculty
- Doctoral / post doctoral fellows
- Students

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**



### 21. Student profile course-wise:

Name of the Course/programme (refer question no. 4)	Applications received**	Selected	Enrolled		Pass percentage
			*M	*F	
MCA					
2011-12	57	57	39	18	98
2012-13	56	56	37	19	95
2013-14	60	60	45	15	96
2014-15	41	41	28	13	98
2015-16	42	42	22	20	100

### 22. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2010-11	98%	2%	NIL
2011-12	98%	2%	nil
2012-13	98%	2%	nil
2013-14	98%	2%	NIL
2014-15	98%	2%	nil
2015-16	90%	10%	01

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?  
:NIL

### 24. Student progression

Student progression	Against % enrolled
UG to PG	--
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
<b>Employed</b>	
Entrepreneurship/Self-employment	



Year	Employed (In campus selection)	Employed (Recruitment other than campus)
2010-11	40	--
2011-12	40	--
2012-13	30	NA
2013-14	15	--
2014-15	14	NA
2015-16	07	--

## 25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	44.44%
from other universities within the State	55.55
from other universities from other States	NIL

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : NIL

## 27. Present details about infrastructural facilities

- a. Library
- b. Internet facilities for staff and students : Internet Facility with 30 MBPS leased line catering 800 computer systems
- c. Total number of class rooms : 03
- d. Class rooms with ICT facility : 02
- e. Students' laboratories : 02
- f. Research laboratories : NIL

## 28. Number of students of the department getting financial assistance from College.

YEAR	SC	ST	BC	EBC	PHC	MINORITY	TOTAL
2010-11	13	05	51	19	0	0	88
2011-12	13	04	58	17	01	0	93
2012-13	16	02	57	21	01	08	105
2013-14	16	02	49	29	0	06	102



2014-15	16	01	39	26	0	08	90
2015-16	15	02	47	17	0	02	83

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.** NIL

**30. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
  - Yes, all the faculty are involved in the syllabus revision undertaken after thorough discussion among them from time to time.
- b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
  - Present evaluation system is completely transparent. Any genuine problems, difficulties of the students are taken care of within departmental constraints.
- c. alumni and employers on the programmes and what is the response of the department to the same?
  - Frequent interactions with employers are regularly taking place during placements visits and also through mails. Their feedbacks are taken care of in order to further enhance the employability skills of the students.

**31. List the distinguished alumni of the department (maximum 10)**

The department is old and almost all the students are well placed in IT industries in India as well as abroad and their present details are not available with the department

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

**2011-12**

1. A workshop "Information Security and Ethical Hacking" on 2nd & 3rd Feb. 2012 at Chaitanya Bharathi Institute of Technology was organized by the dept. of MCA.

**2013-14**

1. Two days workshop on PHP and Sales force was organized by the dept. of MCA in August 2013
2. One day workshop on "Ethical Hacking" was organized by the dept. of MCA in February 2014
3. Two Day National Level Workshop on "Web Technologies And





Scripting Languages" was organized by the dept. of MCA on 26th & 27th April 2013 at CBIT.

4. A Two Day National Level Workshop was organized on "PHP & Sales Force" on 24<sup>th</sup> & 25<sup>th</sup> April. 2015 at CBIT.
5. A Guest on "Data Analysis" by Mr.Venkat, CEO Loadstone learning, Banjara Hills, Hyderabad on 24-10-2014
6. A Guest lecture on "Soft Skills" by Mr. Uday, Faculty, Advaya Learning Systems, Bangalore on 31-10-2014.
7. A Guest lecture on "Photoshop and Corel Draw" conducted on 24-11-14 in collaboration with Gopi Arts, Hyderabad by Mr.Gopal Reddy, CEO, Gopi Arts
8. A Guest lecture on "Organizational Behaviour" conducted on 3-11-14 by Mrs. T.S.Poorna Chandrika, Sr.Asst. Professor, SMS, Chaintanya Bharathi Institute of Technology.
9. A Guest lecture on "GHAr 3D" a web portal on 3D on house planning conducted on 5-12-14 by Mr.Rama Krishna, CEO, CollabNexGen.

### **2015-16**

1. A Two Day National Level Workshop was organized on "Matlab for Engineering Applications" on 11<sup>th</sup> & 12<sup>th</sup> Sept. 2015 at CBIT.
2. A Two Day National Level Workshop was organized on "PHP & Sales Force" on 24<sup>th</sup> & 25<sup>th</sup> April. 2015 at CBIT.
3. A Guest lecture on "Net Banking" conducted on 24-11-2015 by Mr.Satish, Staff, Andhra Bank Staff College.

### **33. List the teaching methods adopted by the faculty for different programmes.**

- Lecture Schedules for every subject is given to the students at the beginning of the semester.
- Use of PHP, LCD, Video Lectures whenever necessary.
- Personality Development Program is being conducted for the First and second years.
- Tutorial is followed apart from the curriculum for the benefit of the students.
- Remedial classes are conducted for slow learners.
- Special attention in the form of seminars are assigned to fast learners in order to motivate the slow learners.



**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

Class tests, Internal assessment exams, periodic model examinations etc

**35. Highlight the participation of students and faculty in extension activities.**

NIL

**36. Give details of “beyond syllabus scholarly activities” of the department.**

The department encourages students and staff to participate in various national and international conferences to present their work.

Departments also conduct conferences and symposia each year

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details. NIL**

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths**

1. Dedicated Faculty Members
2. Cooperative Management Team
3. Well established infrastructure
4. Good environment for the overall development of the students
5. Industry oriented curriculum under Autonomous state

**Weakness**

1. In the admissions, getting students with low communication qualities.
2. Students from non computers background.

**Opportunities:**

1. Strong placement record.
2. Enhancement of Industry-Institute interaction.
3. To catch up with the latest trends in technology by establishing advanced laboratories beyond curriculum.
4. To start inter-disciplinary research works.
5. To start programs for up gradation of technical skills for surrounding community

**Challenges:**

1. Making students ready to industry
2. More Placements
3. Quality Research Work and consultancy



### **39. Future plans of the department.**

- Improve the infrastructure of the department
- Improve the research facility of the department
- Initiate IT industry consultancy projects.



## Evaluative Report of the Department

- 1. Name of the Department:**  
**Department of Mathematics and Humanities**
- 2. Year of Establishment:** 1979
- 3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc. :** NA
- 4. Names of Interdisciplinary courses and the departments/units involved:**

- Mathematics-I (CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- Mathematics-II (CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- Bio-Mathematics-I (Bio-Tech)
- Bio-Mathematics-II (Bio-Tech)
- Fourier Analysis and Partial Differential Equations (CIVIL,CSE, CHEMICAL,ECE,EEE,MECH & PRODUCTION)
- Complex Variables & Probability Statistics (CIVIL,CSE,CHEMICAL,MECH & PRODUCTION)
- Complex Variable & Random Processes (ECE)
- Probability & Random Processes (IT)
- Calculus of Bio-Technology (Bio-Tech)
- Computational Numerical Methods (Bio-Tech)
- Bio-Statistics (Bio-Tech)
- Probability & Statistics (MCA Department)
- Number Theory (M.Tech( IT))
- English-I (Bio-Tech,CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- English-II (Bio-Tech,CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- Soft Skills & Enhancement Employability (Bio-Tech,CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- English Lab-I (Bio-Tech,CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- English Lab-II (Bio-Tech,CIVIL,CSE, CHEMICAL, ECE,EEE,IT,MECH AND PRODUCTION)
- Soft Skills (MCA Department)
- Advanced English & Communications Skills (AECS Lab for MCA)
- Soft Skills Lab (M.Tech)



**5. Annual/ semester/choice based credit system (program me wise) –**  
Semester system.

**6. Participation of the department in the courses offered by other departments:** NA

**7. Courses in collaboration with other universities, industries, foreign institutions, etc.:**

NA

**8. Details of courses/programmes discontinued (if any) with reasons:**

NA

**9. Number of Teaching posts**

	Sanctioned	Filled
Professors	1	0
Associate Professors	4	5
AsstProfessors	13	14

**10. Faculty profile with name, qualification, designation, specialization (Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.MGaneshwar Rao	Ph.D	Assoc.Professor & Head	Number Theory	20	-
Dr.K.Rama Rao	Ph.D	Assoc.Professor	Fluid Mechanics	33	-
Dr.P.Raja Reddy	Ph.D	Assoc.Professor	Fluid Mechanics	20	-
Dr.Swatmaram	Ph.D	Assoc.Professor	Fixed Point Theory	17	-



Dr.A.Sandhya Reddy	Ph.D	Assoc.Professor	American Literature	23	-
Dr.G.Narsimlu	Ph.D	Asst.Professor	Fluid Mechanics	15	-
Dr.B.R.Sreedhar	Ph.D	Asst.Professor	Reliability Theory	17	-
Mrs.A.Vijaylakshmi	M.A	Asst.Professor		15	-
Mr.P.Suresh	M.Sc., NET, (Ph.D)	Asst.Professor		15	-
Dr.G.Deepa	Ph.D	Asst.Professor	Fluid Mechanics	10	-
Mr.A.Srinivas	M.A	Asst.Professor		12	-
Mr.M.Amarnath	M.sc	Asst.Professor		5	-
Dr.Mamta Thakur	Ph.D	Asst.Professor	Fluid Mechanics	7	-
Mrs.K.Ashalatha	M.A	Asst.Professor		20	-
Mrs.T.SwarnaLatha	M.A	Asst.Professor		18	-
Mr.KNaveen Kumar	M.A.,BEd.	Asst.Professor		10	-
Dr.Ch.SurvanaRagini	Ph.D	Asst.Professor	English Language Speaking	20	-
Mrs.B.Chandana	M.A &M.Phil	Asst.Professor	Immigrant Identity in Indian Lite.	11	-
Mrs.G.Mercy Rani	M.A	Asst.Professor		09	-

11. **List of senior visiting faculty:** NA
12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** NA
13. **Student -Teacher Ratio (programme wise):** -
14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:** 4 Sanctioned & 4 Filled
15. **Qualifications of teaching faculty with ~~D.Se/ D.Litt/~~ Ph. D / MPhil / PG.**



16. **Number of faculty with ongoing projects from a) National b) International : NIL**
17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : NIL**
18. **Research Centre /facility recognized by the University: NO**
19. **Publications:**

**CONSOLIDATED REPORT**  
**DEPT. OF MATHEMATICS AND HUMANITIES**

	2011-12	2012-13	2013-14	2014-15	2015-16	Total
International Journals published	7	16	12	19	9	<b>63</b>
National Journals published	4	2	3	1	2	<b>12</b>
International Conferences published	4	4	1	10	6	<b>25</b>
National Conferences published	11	13	26	6	3	<b>59</b>
Conferences/ Seminars/ Workshops/ Attended	2	2	1	4	7	<b>16</b>
STTP/ Refreshers courses / FDPs/ Orientation courses attended	2	5	12	1	7	<b>27</b>
Conferences/ Seminars/ Workshops/organized	2	1	NIL	NIL	NIL	<b>03</b>
STTP/ Refreshers courses / FDPs/ Orientation coursesorganized	NIL	NIL	1	NIL	NIL	<b>01</b>
Articles/ Books/ Chapters written	NIL	NIL	1	NIL	NIL	<b>1</b>
Awards	NIL	NIL	NIL	NIL	NIL	<b>00</b>
Patents	NIL	NIL	NIL	NIL	NIL	<b>00</b>
Guest lecturers delivered	5	4	2	NIL	NIL	<b>11</b>
ME/ M Tech projects guided	NIL	NIL	NIL	NIL	NIL	<b>00</b>
PhDs guided	NIL	NIL	NIL	NIL	NIL	<b>00</b>
PhDs guiding	NIL	NIL	NIL	NIL	NIL	<b>00</b>
Ongoing R&D projects	NIL	NIL	NIL	NIL	NIL	<b>00</b>
Completed R&D projects	NIL	NIL	NIL	NIL	NIL	<b>00</b>
Ongoing Consultancy projects	NIL	NIL	NIL	NIL	NIL	<b>00</b>



Completed Consultancy projects	NIL	NIL	NIL	NIL	NIL	00
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**Papers Published In International Journals By Maths & Humanities  
(2011- June 2012)**

1. G.Narsimlu and L.AnadBabu: Flow of visco elastic liquid through triangular channel, International Journal of Applied Mathematical Analysis and Applications, volume 6 pp125-113, ISSN No:0973-3868 (2011).
2. G.Narsimlu and L.AnadBabu: The motion of sphere in dusty gas, ARPN Journal of Engineering and Applied Sciences, volume 6 issue.no.9 , ISSN No: 1819-6608 ,(2011).
3. G.Narsimlu and L.AnadBabu: MHD free convection flow in porous medium between two heated flat vertical plates International journal scientific computing, volume 5,pp.21-25 ISSN No:0973-578X (2011).
4. B.R.Sreedhar, Stochastic Analysis Of A 3-Component Non-Identical System Under The Influence Of Two Kinds Of Common Cause Shock Failures, Proceedings Of International Congress On Productivity, Quality, Reliability, Optimization And Modelling. Vol: 1, pp:75-80 (2011).
5. Dr A Sandhya Reddy, Assoc.Prof - “A Holistic Approach to Grooming an Engineering student- the Role of the Language Teacher” Published in the Proceedings of the 6<sup>th</sup> National Conference on Strategies, Methodologies & Innovation in Language Education, ISBN:978-81-908397-7-8, 4-5<sup>th</sup> April 2011, p175.
6. Dr.K.Rama Rao: On Effects of Hall Current on an Unsteady MHD Flow of Heat and Mass Transfer along porous Flat plate with chemical reaction and viscous Dissipation , International Journal of Engineering Inventions (IJEI), Volume:2 Issue I, Pages:22-30; ISSN No:2278-7461 (Jan-2012)
7. T.Swarna Latha, “Successful Communication in Multilingual Corporate Environments”, International Conference on Strategies for Business Excellence in Malla Reddy College of Engineering & Technology, Hyderabad from 30-31 march,2012

**(July2012-June13)**





8. Swatmaram and T. Phaneendra , “Common fixed point for two weakly compatible pairs of self maps through property E.A. Under an implicit relation” in Mathematical Theory and Modelling Vol.2, No 6, 2012. ISSN 2225-0522.
9. Swatmaram and T Phaneendra, " A note on a theorem for two pairs of weakly commuting maps", in International journal of computer applications, volume 54 - No.14 September 2012,ISSN 0975\_8887.
10. Swatmaram and T Phaneendra, "Reciprocal continuity and common fixed point for two pairs of self- maps satisfying a generalised inequality" in International journal of Advancements in research and technology, Vol. 1 Issue 5 Oct. 2012, ISSN 2278\_7763.
11. G.Narsimlu, L.AnadBabu and T Arun Kumar: Free convection effects on MHD stokes problem using finite element method, International EJournal of Mathematics and Engineering 154 pp: 1411– 1422, ISSN No: 0976-1411 (2012).
12. G.Narsimlu, L.AnadBabu and T Arun Kumar: Free convection effects on stokes problem for an infinite vertical plate using finite element technique, International Journal of Mathematical Sciences, Technology and Humanities, Vol.26 pp:249 – 263,ISSN No: 2249-5460 (2012).
13. G.Narsimlu, L.AnadBabu and P Raj Reddy: Unsteady Flow of Hydro magnetic Walters Liquid-B Moving Past an Infinite Flat Plate in Magnetic Field, International Journal of Engineering and Interdisciplinary Mathematics pp:33-41 vol :4 ,ISSN No: 0975-5322 ,(2012).
14. B.R.Sreedhar, Evaluation Of System Availability And Frequency Of Failure With Lethal And Non-Lethal CCS Failures By Maximum Likelihood Estimation, International Journal Of Engineering Science And Technology (IJEST), Vol:4, Issue No:6, pp:2677-2691 (2012).
15. B.R.Sreedhar, M LEstimation Of The Reliability Measures Of A Two Unit System In The Presence Of Two Kinds Of CCS Failures, ARPN Journal Of Engineering And Applied Sciences (International Journal), Vol: 7, Issue No:8, (2012).
16. B.R.Sreedhar, Estimation of The Reliability Measures of A Three-Component System With Human Errors And Common Cause Failures, International Journal Of Computer Applications, USA, Vol: 49, Issue No: 18, pp: 22-28 (2012).
17. B.R.Sreedhar, Maximum Likelihood Estimation For Availability Measures Of A Three Component Identical System In The Presence Of Human Errors And CCS Failures, American Journal Of Mathematics And Statistics, USA, Vol:2, Issue No:6 (2012).
18. B.R.Sreedhar, Estimation of Some Statistical Characteristics of A Non-Repairable 3-Component Non-Identical System With CCS



- Failures And Human Errors, Microelectronics Reliability, Great Britain.
19. Dr.G.Deepa,N.Kishan, “Hall and Ion-Slip Effects on Magneto-Micro polar Fluid with combined forced and free convection in Boundary layer flow over a Horizontal Plate with Viscous Dissipation” , International journal of Basic and Applied Science ,Vol.1,issue 4, ISSN: 2252-8814,2012,pp.557-575.
  20. Dr.G.Deepa,N.Kishan, “Viscous Dissipation Effects on Stagnation Point Flow and Heat Transfer of a micro polar fluid with uniform suction or blowing”, Advances in Applied Science Research ,Vol.3,issue 1,2012,ISSN 0976-8610,2012,pp.430-439.
  21. T.Swarna Latha , “Support of Technology& Language Teaching-Problems & Prospects” Asia TEFL(2012), Gurgaon, Delhi from 4-6 oct,2012.
  22. Dr A Sandhya Reddy, Assoc Prof “ The Role of the English Teacher in the Professional Development of the Engineering Student” published in the International Journal of The Frontiers of English Literature & The Patterns of ELT, ISSN : 2320-2505, Vol 1, Issue 1, January 2013, p3-9
  23. Dr A Sandhya Reddy, Assoc Prof “Alienation – Its History and Contemporaneity in American Literature” published in the International Journal of English : Literature, Language & Skills, ISSN 2278-0742, Volume 2 Issue 1 April 2013, p13

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24. Swatmaram and T. Phaneendra “Common Property (E.A.) and common fixed point”, International journal of contemporary Mathematical Sciences, Vol. 8, 2013, no. 15, ISSN 1314-7544.
25. Swatmaram and T. Phaneendra " A generalised common fixed point for two pairs of weakly compatible self-maps sharing common property (EA)", IJFST Vol2, issue 3rd march 2014, ISSN 2320-4486.
26. Swatmaram and T. Phaneendra “Contractive modulus and common fixed Point for three asymptotically regular and weakly compatible self-maps”, Malaya Journal of Mathematic, 4 (1) (2013) ISSN 2313-3786
27. Swatmaram and T. Phaneendra”A weaker version of continuity and a common fixed point Theorem“ Mathematical Theory and Modelling, Vol. 3. No. 8 . 2013 ISSN 2225-0522.
28. Swatmaram "An Extension of Fisher's Theorem ", General Mathematics Note, Vol. 18 No. 1, September ,2013 ISSN 2219\_7184.



29. Swatmaram " A generalized common fixed point for two pairs of Weakly compatible self maps", International journal of innovative Research in Science, Engineering and Technology, Vol. 2 Issue 8 August, 2013, ISSN 2319-8753.
30. Dr A Sandhya Reddy, Assoc Prof “Measures taken to enhance Employability Skills of Engineering Students” published in the International Journal of English : Literature, Language & Skills, ISSN 2278-0742, Volume 2 Issue 2 July 2013, p123-126.
31. Dr.M.Ganeshwar Rao: On a r-GCD-Sum Function Over r-Regular Integers Modulo  $n^r$ , International Journal of Soft Computing and Engineering (IJSCE), Volume: 3, Issue:1, Pages:7 to 11. ISSN No: 2231-2307 (2013).
32. Dr.M.Ganeshwar Rao: On the Partial Sums of the Dirichlet Series of the R-GCD-Sum Function, International Journal of Mathematics and Computer Applications Research (IJMCAR), Volume: 3, Issue:1, Pages:65 to 75. ISSN No: 2249-6955 (2013).
33. Dr. K. Rama Rao: On MHD and Oscillatory flow of Rivlin-Ericksen Fluid Through an inclined Channel, Journal of Heat and Mass Transfer, Pages:149-163(35)2013. ISSN No:0970-9991
34. G.Narsimlu, L.AnadBabu and V.V. Reddy: Finite element analysis of heat and mass transfer of a MHD / Micro polar fluid over a vertical channel, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), ISSN No:2347-3142, vol-2 may 2014.
35. K. Naveen Kumar published a poem ,“KUDOS,” in the International Journal of English, Literature, Language and Skills, ISSN 2278-0742, Vol.3, Special Issue 2, May 2014, P.44
36. T.Swarna Latha, “Soft skills Training for Young Engineering Graduates: A Boon for Enhancing their Employability” in International Journal of the Frontiers of English Literature and the Patterns of ELT, Volume I, Issue 1(2013), ISSN 2320-2505

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37. P Raj Reddy: The kinematics Aspect of Flow Across the Nozzle, International journal of Technology and Engineering Science (IJTES), Vol:2 Issue6, ISSN 2320-8007,(2014).
38. B.LingaReddy, B.Chnennakeshavarao, P Raj Reddy and P.V.R. RavindraReddy:A Review on Springback in Metal Forming, International journal of Engineering Research & Technology Vol:3,Issue No:1, ISSN No:2278-0181,(2014)
39. Dr.M.Ganeshwar Rao : THE EXPONENTIAL SUM  $C_p,s (r,n)$ , International Journal of Mathematics and Computer Applications Research (IJMCAR),Volume:4, Issue:4, Pages:47 to 53, ISSN No: 2249-6955, (2014).



40. Dr.M.GaneshwarRao : On Functions  $A_f^S, G_f^S$  and  $H_f^S$ , International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume:2, Issue:6, Pages:567 to 571. ISSN No: 2347-307X (2014).
41. A. Vijayalakshmi, “Teaching English to Students of Engineering Colleges using ICT Strategies”, in IJELLH Volume II, Issue VII November, 2014, ISSN-2321-7065, SJIF impact factor: 2.317.
42. Dr.M.Ganeshwar Rao: On Generalized Summation Formula, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Volume: 2, Issue:7, Pages:646 to 648. ISSN No: 2347-307X (2014).
43. Dr.M.Ganeshwar Rao: On (P,S)-Residue System Modulo N, International Journal of Mathematics and Computer Applications Research (IJMCAR), Volume: 4, Issue:2, Pages:69 to 73. ISSN No: 2249-6955 (2014).
44. G.Narsimlu, L.AnadBabu and V.V. Reddy: Effect of chemical reaction and thermal radiation on MHD free convective flow of a semi-infinite porous plate moving vertically, International Journal of Engineering Technology and Computer Research (IJETCR), pp:37-49, ISSN No: 2348-2117, vol-2 sep 2014.
45. G.Narsimlu, L.AnadBabu and V.V. Reddy: Chemical Reaction and Viscous dissipation Effects on an unsteady MHD flow of Heat and Mass Transfer along a Porous flat plate, International Journal of Scientific and Innovative Mathematical Research (IJSIMR) pp:977-988,ISSN No: 2347-3142 vol-2 dec 2014.
46. Dr A Sandhya Reddy, Assoc. Professor, published a paper titled, “Reflective Teaching – Exploring Classroom Practice” in International Journal of English Language, Literature & Humanities, ISSN 2321-7065, Volume II, Issue VII, November 2014, p 370-377.
47. Dr. K. Rama Rao, On “ Thermal Radiation effect on an unsteady MHD Natural convection Couette flow with Heat and Mass Transfer, International Journal of Computers and Technology, ISSN No:2277-3061, Feb.2014, Pages: 3788-3802
48. Dr.K.Rama Rao; On “ The effect of Hall current on unsteady MHD free convective coquette flow of a Bingham fluid with Thermal Radiation”, International Journal of Engineering and Advanced Technology Exploration. vol:3,Issue-6,Pages:1-16; 30th Aug,2014.
49. Dr.K.Rama Rao; On “ The effect of Hall current on unsteady MHD free convective coquette flow between two permeable plates in the presence of thermal radiation”; (IJCER) International Journal of computational Engineering Research, ISSN No: 2250-3005; Vol:4, Issue-7; pages: 40-55
50. Dr.K.Rama Rao; On “ Thermal Radiation effect on an unsteady MHD free convective coquette viscous Dissipative coquette flow



- between two vertical permeable plates”; (IJACSM) International Journal of Applied computational Science and Mathematics, ISSN No: 2249-3042; Vol:4, pages: 175-198, GBS publication.
51. Dr A Sandhya Reddy, Assoc. Professor, published a paper titled, “ Vietnam War Literature – Demystifying the American Myth “ in the International Journal of English : Literature, Language & Skills, ISSN 2278-0742, Volume 3 Issue 4 January 2015, p 161-165
52. K. Naveen Kumar published a poem “Crush,” in Galaxy – an International Multidisciplinary Journal, ISSN: 2278-9529, Vol.3, Issue - V September 2014, P.133
53. K. Naveen Kumar published a short story “Portrait of a Grandmother”, in **The Criterion: An International Journal in English**,ISSN 0976-8165, Vol.5, Issue-3, June 2014, P.375-380
54. K. Naveen Kumar published a paper, “Empowerment of women through Autobiography,” in the International Journal of English Language, Literature and Humanities, ISSN 2321-7065, Volume II, Issue IV, August 2014, P.216-225
55. K. Naveen Kumar published a paper, “English Newspaper as an ESL Tool: A Study into Language Veracity,” in The Criterion – an international journal, ISSN: 0976-8165, Vol.5, Issue-5, October 2014, P. 179-186
- (July2015-June2016)**
56. G.Narsimlu, L.AnadBabu and V.V. Reddy: Finite Element Analysis of Heat and mass Transfer of Thermal diffusion effect on MHD free convection flow of stratified viscous fluid, International Journal of Mathematics and Computer Applications Research (IJMCAR)),pp:77-82, ISSN No: 2249-8060, vol-5 2015.
57. Suvarna Ragini . Ch., “Literary texts as Inputs to teach Language skills: Exploring Learners and Learning of English” at All India Network of English Teachers (AINET); 3rd AINET International Conference – Nagpur. (2015)
58. Dr A Sandhya Reddy, Assoc. Professor, published a paper titled, “The importance of Technical Writing Skills for Engineering Students” in IMPACT :International Journal of Research in Humanities, Arts and Literature(IMPACT : IJRHAL), ISSN (P):2347-4564 ;ISSN(E):2321-8878, Volume 4, ISSUE 3, March 2016
59. K.Muthyalappa, Prof.K.Pushpanjali and Dr.B.R. Sreedhar, Efficiency of Agricultural Production (Rice & Wheat) By Using Data Envelopment Analysis, Vol: 12, Issue No: 2, pp:25-28,e-ISSN:2278-5728,p-ISSN:2319765X,(2016).
60. Suvarna Ragini . Ch., “Understanding learners’ learning preferences through Reid’s Perpetual styles Questionnaire “(page nos. 76-79) ,10th International Conference organized by “Prestige



- Institute of Management and Research, Indore. ISBN No. 978-93-5062-628-3., Quality Education, Entrepreneurship and Exemplary Business Practices for Social Change .(Feb-2016 )
61. Suvarna Ragini . Ch., “Understanding learners’ learning preferences through Reid’s Perpetual styles Questionnaire”: Quality Education, Entrepreneurship and Exemplary Business Practices for Social Change, at Prestige Institute of Management and Research, Indore ; 10th International Conference organized by “Prestige Institute of Management and Research, Indore. (2016)
  62. B.Chandana, “Immigration Identity: Alienation- Locale and Reconciliation”, in International Journal of Novel Research in Humanity and Social Sciences , IJNRHSS Vol.3, Issue 2, pp(14-18), Month- March- April 2016, ISSN 2394-9694 ( Online).
  63. B.Chandana, “Immigrant Writer ‘Anita Desai’-Her Contribution To Indian Fiction” – Accepted in IJNRHSS( Online).

#### **Papers Published In National Journals By Maths & Humanities (2011- June 2012)**

64. Dr A Sandhya Reddy, Assoc. Professor, “English – A Life Skill : A Need to Redesign the Curriculum in Engineering Colleges” Published in Sreenidhi’s Journal of English Studies(S-JOES), ISSN 2249 – 4162 Vol – 1 Issue-1 July 2011, p 53.
65. Dr A Sandhya Reddy, Assoc. Professor “Inculcating the Habit of Reading – A Challenge for the English Teacher in the Engineering College” Published in The Journal of English Language Teaching (India), ISSN 0973 – 5208, Nov-Dec, 2011, p16.
66. Dr A Sandhya Reddy, Assoc. Professor “Towards the need for revamping the English Curriculum of Engineering Colleges in AP” Published in The English Classroom-Bi-annual Journal, ISSN 2250-2831, Volume 13, Number 2, December 2011, p48.
67. G.Narsimlu, L.AnadBabu and P Raj Reddy: Unsteady flow of a dusty viscous liquid through circular cylinder, Journal of Advances in Applied Science Research, volume 2 (5): pp 416-420, ISSN No: 0976-8610 (2011).

#### **National Journals published (July2011- June 2012)**

68. Swatmaram and T. Phaneendra , ”A generalization of theorem of Banarjee and Thakur to two weakly compatible pairs of Self – Maps” in Bulletin of Mathematical analysis and applications, Volume 4, Issue 4(2012), pages 1to 5, ISSN 1821-1291.
69. G.Narsimluand L.AnadBabu: Flow of Visco elastic Liquid Through Elliptic Channel, Journal of Indian Academy of



Mathematics volume (34), pp.221-224,ISSN No: 0970-5120, (2012).

**(July2012- June 2013)**

70. P Raj Reddy:MHD and Oscillatory flow of Rivilin-Ericksen fluid throw an inclined Channel, Journal of Energy , Heat and Mass Transfer Peer Reviewed, Vol:35,pp:49-163, ISSN No:0970-9991(2013)
71. Swatmaram and T. Phaneendra, "A note on result of Srinivas et al. and its generalization under weaker inequality", in JP Journal of Fixed Point Theory and Application Vol.7 Issue 3 Dec. 2012 ISSN 0973-4228 .
72. Suvarna Ragini . Ch., "Breaking the monotony in learning – A study on the responsibility of teachers in implementing the RTE act. (Page no 416-417)" National Conference organized by "Osmania University"- Hyderabad, National Conference organized by "Osmania University"- Hyderabad ISBN No.978-81-926678-6-7 , Right to Education: Issues & Challenges Dept of Education, Osmania University –HYD. ( 2013)

**(July2013- June 2014)**

73. P Raj Reddy: Effects of heat and Mass Transfer on Flow past an Oscillating Vertical plate with Variable Temp by using Finite Element Analysis, Journal of Energy , Heat and Mas Transfer, Peer reviewed Vol:36,pp:227-236, ISSN No: 0970-9991 (2014).

**(July2014- June 2015)**

74. Suvarna Ragini . Ch., "Exploring Online Reading Strategies for Improving Reading Skills at Tertiary Level." (page nos. 117-119), National Conference organized by " ELT@I Thirupathi Chapter., 978-93-5126-355-5., English Language and Soft Skills: Problems and Perspectives- ELTAI. (2015)
75. Suvarna Ragini . Ch., "Motivational Strategies to teach Language Skills through Literature: A Study Report". (page nos. 21-23), National Conference organized by " ELT@I Thirupathi Chapter., ISBN No. 978-93-5212-449-7., Teaching English Language and Literature Challenges and Solutions - ELTAI



## Evaluative Report of the Departments

1. **Name of the department** **PHYSICS**
2. **Year of Establishment** 1979
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**  
N/A
4. **Names of Interdisciplinary courses and the departments/units involved** N/A
5. **Annual/ semester/choice based credit system (programme wise)**  
N/A
6. **Participation of the department in the courses offered by other departments** N/A
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** NIL
8. **Details of courses/programmes discontinued (if any) with reasons**  
NIL
9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	1	1
Associate Professors	2	2
Asst. Professors	4	4

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Prof. N. Amrutha Reddy	M.Sc., Ph.D.	Professor	Solid State Physics	33	--





Dr. B. Linga Reddy	M.Sc., Ph.D.	Associate Professor	Solid State Physics	23	--
Dr. B. Sreenivasa Reddy	M.Sc., Ph.D.	Associate Professor	Theoretical Physics	21	--
Dr. Y. Srinivasa Reddy	M.Sc., Ph.D	Assistant Professor	Material Science	16	--
Dr. K. Vinay Kumar Reddy	M.Sc., Ph.D	Assistant Professor	Electronics	10	--
Sri. G. Nataraju	M.Sc.	Assistant Professor	Electronics	19	--
Dr. Subhadra	M.Sc., Ph.D	Assistant Professor	Solid State Physics	14	--

11. **List of senior visiting faculty** NIL
12. **Percentage of lectures delivered and practical classes handled (programme wise):** by temporary faculty
13. **Student -Teacher Ratio (programme wise)**
14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled-** 5 and 5
15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**
16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**  
NIL
17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc.and total grants received** NIL
18. **Research Centre /facility recognized by the University** NO
19. **Publications:** List attached
  - \* a) **Publication per faculty**



**\* Number of papers published in peer reviewed journals (national / international) by faculty and students**

**\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

- \* Monographs**
- \* Chapter in Books**
- \* Books Edited**
- \* Books with ISBN/ISSN numbers with details of publishers**
- \* Citation Index**
- \* SNIP**
- \* SJR**
- \* Impact factor**
- \* h-index**

**2015-16 International Journals Published:**

1. Dr. Y.S. Reddy, Assistant Professor, published research paper entitled "*Elastic Properties of Colossal Magnetoresistive Manganites  $R_{0.67}Sr_{0.33}MnO_3$  ( $R = Pr, Nd, Gd$ )*" in Acta Physica Polonica A 129 (2016) 113 - 116. DOI: 10.12693/APhysPolA.129.113 ISSN: 0587 – 4246 (Print only) ISSN: 1898 – 794X (Online only)

**International Journals Published:**

2. Dr. B. Sreenivasa Reddy, Associate Professor and Dr. K. Vinay Kumar Reddy, Asst. Professor published a research paper entitled " Preliminary investigation on natural background radiation levels in and around Karimnagar, Telangana state, India", Science and Technology, 1 (2015), 80-83

**International Journals Published:**

3. Dr. B. Linga Reddy, Associate Professor published research paper entitled "Synthesis and Characterization of Mesoporoussilica SBA" in International Journal Pharmacy & Technology 6 (2014) 6721-6724.
4. Dr. Y.S. Reddy, Asst. Professor published research paper entitled "Investigation of Magnetic Transitions Through Ultrasonic Measurements in double layered CMR manganite  $La_{1.2}Sr_{1.8}Mn_2O_7$ " in Phase Transitions 87 (2014) 286 – 293. DOI: 10.1080/01411594.2013.811584 ISSN: 0141 – 1594
5. Dr. Y.S. Reddy, Asst. Professor published research paper entitled "Elastic properties of double layered manganites  $R_{1.2}Sr_{1.8}Mn_2O_7$  ( $R = La, Pr, Nd, Sm$ )" in Rare Metals 33 (2014) 166 – 170 DOI: 10.1007/s12598-013-0128-8 ISSN: 1001 – 0521



**2013-14 2012-13 International Journals Published:**

6. Dr. B. Linga Reddy, Associate Professor published research paper entitled “Effect of Density on the Performance of Explosively Formed Projectile” in International Journal of Applied Physics 3 (2013) 43-50 ISSN: 2249-3174.
7. Dr. B. Linga Reddy, Associate Professor published research paper entitled “A Review of Springback in Metal Forming” in International Journal of Engineering Research & Technology 3 (2013) 646-655.
8. Dr. B. Linga Reddy, Associate Professor published research paper entitled “A Review on Residual Stresses in Deep Drawing ” in International Journal of Innovative Research in Science, Engineering & Technology 2 (2013) 802-804.
9. Dr. B. Linga Reddy, Associate Professor published research paper entitled “Nano Composite Catalytic Materials: Synthesis and Characterization” in International Journal Pharmacy & Technology 6 (2013) 6699-6703.

**2011-12 International Journals Published:**

10. Dr. Y.S. Reddy, Asst. Prof., published research paper entitled “Low Temperature Electrical Transport in Double Layered CMR Manganite  $\text{La}_{1.2}\text{Sr}_{1.4}\text{Ba}_{0.4}\text{Mn}_2\text{O}_7$ ” in Advances in Materials Physics and Chemistry 2 (2012) 49-52 ISSN: 2162-531X
11. Dr. Y.S. Reddy, Asst. Prof., published research paper entitled “Crystal Structure, Electrical Conductivity and Thermal Expansion of  $\text{Pr}_{1-x}\text{Sr}_x\text{FeO}_3-\Delta (0 \leq x \leq 0.6)$ ” in International Journal of Modern Physics B 26 (2012) 1250174-1250185 ISSN: 0217-9792
12. Dr. K. Vinay Kumar Reddy, Asst. Prof., published research paper entitled “Environmental radioactivity studies in the proposed Lambapur and Peddagattu uranium mining areas of Andhra Pradesh, India” in Radiat. Prot. Dosim. 151 (2012) 290-298 ISSN 0144-8420).
13. Dr. K. Vinay Kumar Reddy, Asst. Prof., published research paper entitled “Spatial and Vertical Distribution of Radon and Thoron in a Typical Indian Dwelling” in J. Radioanal. Nucl. Chem. 292 (2012) 1089-1092.
14. M. Subhadra , Asst. Prof., published research paper entitled “Infrared and Raman Spectroscopic Studies of Mixed Alkali Bismuth Borate glasses with Vanadium ions”, Journal of Vibrational Spectroscopy, 62 (2012) 23-27.



#### **National Journals Published:**

15. Dr. B. Sreenivasa Reddy and Dr. K. Vinay Kumar Reddy, published research paper entitled “Radon levels in fertilizer stockyards of urban Hyderabad, India”, *Advances in Applied Research* 4 (2012) 5-8.

#### **2010-11 International Journals Published:**

16. Dr. B. Linga Reddy, Assoc. Prof., published research paper entitled “X-Ray Powder Diffraction and Thermal Study of Esomeprazole Magnesium Hydrated Forms” *International Journal of Materials Science* 5 (2010) 571-579.
17. Dr. Y.S. Reddy, Asst. Prof., published research paper entitled “Crystal structure, electrical conductivity and thermal expansion of  $Nd_{1-x}Ca_xCoO_{3-\delta}$  ( $0 \leq x \leq 0.5$ ), *Materials Research Innovations (UK)* B 14 (2010) 68 - 12. ISSN: 1432-8917 (P) 1433-075X (O)
18. M. Subhadra , Asst. Prof., published research paper entitled “ Characterization and Optical absorption studies of  $VO_2^+$ :  $Li_2O - K_2O - Bi_2O_3 - B_2O_3$  glass system.” *Journal of Alloys and Compounds*, 505 (2010) 634 - 639.
19. M. Subhadra , Asst. Prof., published research paper entitled “ Effect of  $Bi_2O_3$  content on physical and optical properties of  $15Li_2O - 15K_2O - xBi_2O_3 - (65-x) B_2O_3: 5V_2O_5$  glass system”, *Physica B*, 406 (2011) 1501 - 1505.
20. M. Subhadra , Asst. Prof., published research paper entitled “ Effect of  $Bi_2O_3$  Addition on Electron Paramagnetic Resonance, Optical Absorption, and Conductivity in Vanadyl-Doped  $Li_2O-K_2O-Bi_2O_3-B_2O_3$  glasses”, *Journal of Physical Chemistry A*, 115 (2011) 1009 - 1017.
21. M. Subhadra , Asst. Prof., published research paper entitled “ Electron paramagnetic resonance and thermal behavior of Vanadyl-doped mixed alkali bismuth borate glasses”, *Journal of Non-Crystalline Solids*, 357 ( 2011) 3442-3446.

#### **20. Areas of consultancy and income generated**

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#### **21. Faculty as members in**

##### **a) National committees b) International Committees c) Editorial Boards....**

1. Dr. B. Sreenivasa Reddy, Associate Professor was nominated as an Editorial Board member of “Universal Journal of Geophysics” (Horizon Research Publishing Corporation, USA).
2. Dr. Y. S. Reddy, Asst. Professor was nominated as Section Editor (Physics) for an international refereed journal “Recent Research in Science and Technology” (ISSN: 2076-5061).



3. Dr. K. Vinay Kumar Reddy, Asst. Professor was nominated as an Editorial Board Member of “Journal of Bio-Research”.



## Evaluative Report of the Departments

1. **Name of the department:** CHEMISTRY
2. **Year of Establishment:** 1979
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., Evaluative Report of the Departments etc.) :** UG
4. **Names of Interdisciplinary courses and the departments/units involved**
  1. Chemical Engineering
  2. Bio-Technology
5. **Annual/ semester/choice based credit system (programme wise):**  
Semester system.
6. **.Participation of the department in the courses offered by other departments: -**
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NA
8. **Details of courses/programmes discontinued (if any) with reasons:**  
NA
9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	02	02
Associate Professors	Nil	Nil
Asst. Professors	05	05



**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. P. Giridhar Reddy	M.Sc., Ph.D	Professor & Head	Physical Organic chemistry	32	---
Dr. K. Laxmi	M.Sc., Ph.D	Professor	Inorganic Chemistry	20	----
Dr. K. Ramesh	M.Sc., Ph.D	Asst. Prof	Physical Chemistry	12	----
Dr. M. Mamatha	M.Sc., Ph.D	Asst. Prof	Organic Chemistry	10	----
Dr. P. Murali Krishna	M.Sc., Ph.D	Asst. Prof	Organic Chemistry	10	----
Dr. M. Ramadevi	M.Sc., Ph.D	Asst. Prof	Physical Chemistry	05	----
Dr. P. Suresh	M.Sc., Ph.D	Asst. Prof	Organic Chemistry	05	----

**11. List of senior visiting faculty: NA**

**12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NA**

**13. Student -Teacher Ratio (programme wise): NA**

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: NA**

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.: Ph.D**

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil**



17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** Nil
18. **Research Centre /facility recognized by the University:** Nil
19. **Publications:**
  - **Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)**
  - \* **Monographs: ----**
  - \* **Chapter in Books**
  - \* **Books Edited**
  - \* **Books with ISBN/ISSN numbers with details of publishers**
  - \* **Citation Index**
  - \* **SNIP**
  - \* **SJR**
  - \* **Impact factor**
  - \* **h-index**

### **International Journals published by Chemistry Faculty (2015-2016)**

1. K. Laxmi, "A Hypothetical Study on Structural aspects of Indole-3-carbinol (I3C) by Hyperchem and Arguslab 4 software" in Int. Journal of Engineering Research and Applications, Vol. 6, Issue 1, (Part - 4) January 2016, pp.17-24 2016, ISSN: 2248-9622.
2. K. C. Rajanna, V. Sudhakar Chary, M. Satish Kumar, G. Krishnaiah, P. Srinivas, P. Venkanna, M. Venkateswarlu, K. Ramesh, K. Rajendar Reddy & B. Suresh, "Ultrasonic and microwave effects in polyethylene glycol-bound metal nitrate initiated nitration of aromatic compounds under acid free conditions" in Green Chemistry Letters and Reviews, Volume 8, Issue 3-4, Page 50-55, 2015 , ISSN: 1751-8253.
3. M.Mamatha\*1 , NarendraBabu2 , K.Kiran2&H.Mastan2 "Total Synthesis of N,N-Dimethyl Dodecyl Amine-N-Oxide" in International Journal of Advanced Research, (2016), Volume 4, Issue 1, 716- 719.
4. C. N. Babu, P. Suresh, K. Srinivas, A. Sathyanarayana, N. Sampath and G. Prabusankar\*, "Catalytically active lead(II)-imidazolium coordination assemblies with diversified lead(II) coordination geometries" in Dalton Transactions, 2016, 45, 8164-8173.





### **International Journals published by Chemistry Faculty (2014-2015)**

5. K. RAMESH,<sup>1</sup> S. SHYLAJA,<sup>1</sup> K. C. RAJANNA,<sup>2</sup> P. GIRIDHAR REDDY,<sup>1</sup> P. K. SAIPRAKASH<sup>2</sup>, “Polyethylene glycol (PEG) mediated Kinetic Study of Nitrodecarboxylation of  $\alpha$ ,  $\beta$ -Unsaturated Acids by Blau’s Fe (III) Bipy Complex” in International Journal of Chemical Kinetics. Volume 46, Issue 2, Page 126-137.
6. S. SHYLAJA<sup>1</sup>, K. RAMESH<sup>1</sup>, K. C. RAJANNA<sup>2\*</sup>, P. GIRIDHAR REDDY<sup>1</sup>, P. K. SAIPRAKASH<sup>2</sup>, “Micelle forming surfactants as efficient catalysts for the oxidation of xanthine alkaloids by ceric ammonium nitrate in acetonitrile - A Kinetic and Mechanistic Study” in International Journal of Pharm Bio Science 2014 Oct; 5(4) Special Issue SP-1.
7. P. Suresh, C. N. Babu, N. Sampath and G. Prabusankar\*, “Photoluminescent calcium azolium carboxylates with diversified calcium coordination geometry and thermal stability” in Dalton Transactions, 2015, 44, 7338-7346.
8. V. Rama Devi, G. Ravi, RadhaVelchuri, C.H. Sameera Devi, G. Prasad, and M.Vithal, “Preparation, Characterization, Photocatalytic activity and Conductivity studies of  $YLnTiZrO_7$  ( $Ln = La, Nd, Sm$  and  $Eu$ )” in Ionics, 20, 373–380. (2014)
9. K. Srinivas, P. Suresh, C. N. Babu, A. Sathyanarayana and G. Prabusankar\*, “Heavier chalcogenone complexes of bismuth(III) trihalides: potential catalysts for acylative cleavage of cyclic ethers” in RSC Advance, 2015, 5, 15579-15590.
10. P. Suresh, C. N. Babu and G. Prabusankar\*, “A rare binuclear metalocyclic planar 20, 26 and 34 membered zinc-organic rings” in Polyhedron, 2015, 93, 84-90.
11. P. Suresh, C. N. Babu and G. Prabusankar\*, “Semi rigid imidazolium carboxylate controlled structural topologies in zwitterionic coordination networks” in Polyhedron, 2015, 89, 322-329.
12. C. N. Babu, P. Suresh, A. Sathyanarayana, P. Das and G. Prabusankar\*, “Crystal structure and solid state properties of discrete hexa cationic trinuclear zinc triazol cluster” in Journal of Chemical Sciences, 2015, 127, 1369-1373.

### **International Journals published by Chemistry Faculty (2013-2014)**

1. **K. Ramesh**,<sup>1</sup> S. Shylaja,<sup>1</sup> K. C. Rajanna,<sup>2</sup> P. Giridhar Reddy,<sup>1</sup> and P. K. Saiprakash<sup>2</sup> “Polyethylene Glycol Mediated Kinetic Study of Nitro



Decarboxylation of  $\alpha,\beta$ -Unsaturated Acids by Blau's Fe(III) Phen Complex" in **Journal of Chemistry**, Volume 2013, 10 page 1-10.

2. **V. Rama Devi**, G. Ravi, RadhaVelchuri, N. R. Munirathnam, G. Prasad, and M.Vithal, Preparation, Characterization, Photocatalytic activity and Conductivity studies of  $YLnTi_2O_7$  ( $Ln = Nd, Sm, Eu$  and  $Gd$ )" in **Trans. Ind. Ceram.Soc**, vol. 72, no. 4, pp. 241-251. (2013).
3. **P. Suresh** and G. Prabusankar\*, Cationic zinc (II) dimers and one dimensional coordination polymer from ionic carboxylic acid, *Journal of Chemical Sciences*, **2014**, 126, 1409-1415 (Invited paper in special issue on "Chemical Crystallography").
4. G. Prabusankar\*, A. Sathyanarayana, **P. Suresh**, C. N. Babu, K. Srinivas and M. B. P. Rao, N-heterocyclic carbene supported heavier group 14 elements: recent progress and challenges, *Coordination Chemistry Review*, **2014**, 269, 96-133.
5. C. N. Babu, **P. Suresh**, P. Das, A. Sathyanarayana, R. Ranjith, N. Sampath and G. Prabusankar\*, Synthesis, crystal structure and spectral properties of copper(II) monomer decorated copper(II) coordination polymer, *Journal of Molecular Structure*, **2014**, 1062, 141-146.
6. C. N. Babu, **P. Suresh**, N. Sampath and G. Prabusankar\*, Cadmium coordination polymers based on flexible bis(imidazole) ligands: A rare example of doublet of doublet cadmium polyhedron arrangements, *Journal of Molecular Structure*, **2014**, 1075, 147-153.

### **International Journals published by Chemistry Faculty (2012-2013)**

7. **P. Giridhar Reddy**, K. Ramesh, S. Shylaja, K. C. Rajanna, and S. Kandlikar "Synergistic Effect of  $[Ru(III) + Ir(III)]$  in N-Bromosuccinimide Reaction with Certain Aliphatic Ketones: A Kinetic Study" in **Advances in Physical Chemistry**, Volume 2012, Article ID 292908, 6 pages.
8. **K. Ramesh**, S. Shylaja, K. C. Rajanna, P. Giridhar Reddy, and P. K. Saiprakash "Polyethylene Glycols as Efficient Media for Decarboxylative



Nitration of  $\alpha,\beta$ -Unsaturated Aromatic Carboxylic Acids by Ceric Ammonium Nitrate in Acetonitrile Medium: A Kinetic and Mechanistic Study” in **Advances in Physical Chemistry**, Volume 2013, Article ID 146585, 12 pages

9. S. Shylaja, K. C. Rajanna, **K. Ramesh**, K. Rajendar Reddy, and P. Giridhar Reddy “Polyethylene Glycols as Efficient Catalysts for the Oxidation of Xanthine Alkaloids by Ceric Ammonium Nitrate in Acetonitrile: A Kinetic and Mechanistic Approach” in **Advances in Physical Chemistry**, Volume 2013, Article ID 835610, 11 pages.
10. A. Sathyanarayana, **P. Suresh** and G. Prabusankar\*, “A mild approach to the synthesis of 1,2-diferrocenylethanedione from ferrocenealdehyde” in *Journal of Organometallic Chemistry*, **2012**, 720, 46-51.
11. K.Laxmi, “A study on structural aspects of indoline-2, 3-dione-3-oxime: Experimental and theoretical approach in *Int. Journal of Computational and Theoretical Chemistry*., Vol. 1, No 2, (Part - 4) , September 2013, pp.11-16, DOI: 10.11648/j.ijctc.20130102.1.
12. K. Ramesh, “Iminium salt mediated nitro decarboxylation of  $\alpha$ ,  $\beta$ -unsaturated acids for the synthesis of  $\beta$ -nitro styrenes under-nonconventional conditions” in *Org. Commun.* 5:2 (2012) April (2012) 42-49.
13. K. Ramesh, “Synergistic effects of [Ru(III)+IR(III)] in NBS reaction with certain aliphatic key tones- Kinetic study” in *Advances in Physical Chemistry*, Volume 2012, Article ID 292908.

**International Journals published by Chemistry Faculty (2011-2012)**

14. P. Giridhar Reddy, K. Ramesh, S. Shylaja, K. C. Rajanna, and S. Kandlikar , “Ru (III) Catalyzed Oxidation of Aliphatic Ketones by N-Bromosuccinimide in Aqueous Acetic Acid: A Kinetic Study” in **The ScientificWorld Journal**, Volume 2012, page no 1-7doi:10.1100/2012/456516.



15. K.Laxmi, "Spectral and single crystal x-ray diffraction studies of 3- acyl 2-(2'hydroxy-5-nitro phenyl) benzothiazoline" in *International Journal of Pharmaceutical Chemistry.*, 2 [4] 2012; 129-133, ISSN:2249-734X (Online).
16. Kamatala Chinna Rajanna<sup>1</sup>, **Kola Ramesh**<sup>2</sup>, Soma Ramgopal<sup>1</sup>, Somannagari Shylaja<sup>2</sup>, Pochampally Giridhar Reddy<sup>2</sup>, Pondichery Kuppuswamy Saiprakash<sup>1</sup> "Poly Ethylene Glycols as Efficient Media for the Synthesis of  $\beta$ -Nitro Styrenes from  $\alpha$ ,  $\beta$ -Unsaturated Carboxylic Acids and Metal Nitrates under Conventional and Non-Conventional Conditions" in **Green and Sustainable Chemistry**, 2011, 1, 132-148.
17. Somannagari Shylaja<sup>1</sup>, Kola Ramesh<sup>1</sup>, Pochampally Giridhar Reddy<sup>1</sup>, Kamatala Chinna Rajanna<sup>2\*</sup>, Pondichery Kuppuswamy Saiprakash<sup>2</sup> "Poly Ethylene Glycols (PEG) and Micelles as Efficient Catalysts for the Oxidation of Xanthine Derivatives under Conventional and Non-Conventional Conditions" in **International Journal of Organic Chemistry**, 2011, 1, 148-157.
18. Mukka Satish Kumar, Purugula Venkanna, Soma Ramgopal, Kola Ramesh, Marri Venkateswarlu and Kamatala Chinna Rajanna\* "Iminium salt mediated nitro decarboxylation of, -unsaturated acids for the synthesis of -nitro styrenes under non-conventional conditions" in **Org. Commun.** 5:2 (2012) 42-49.
19. B. Vijaya Kumar, Radha Velchuri, **V. Rama Devi**, B. Sreedhar, G. Prasad, D. Jaya Prakash M. Kanagaraj, S. Arumugam and M. Vithal, "Preparation, Characterization, Magnetic susceptibility (Gd, Sm and Eu) and XPS Studies of Ln<sub>2</sub>ZrTiO<sub>7</sub> (Ln = La, Eu, Dy and Gd)" in **Journal of Solid State Chemistry**, 184, 264-272. (2011).
20. Radha Velchuri, B. Vijaya Kumar, **V. Rama Devi**, G. Prasad, D. Jaya Prakash and M. Vithal, "Preparation and Characterization of Rare Earth Orthoborates, LnBO<sub>3</sub> (Ln = Tb, La, Pr, Nd, Sm, Eu, Gd, Dy, Y) & LaBO<sub>3</sub>: Gd, Tb, Eu by Metathesis Reaction: ESR of LaBO<sub>3</sub>: Gd and Luminescence of LaBO<sub>3</sub>: Tb, Eu., in **Materials Research Bulletin**, 46, 1219-1226. (2011).



21. RadhaVelchuri, B. Vijaya Kumar, **V. Rama Devi**, D. Jaya Prakash and M. Vithal, "Solid state metathesis synthesis, characterization and spectral studies of rare earth doped  $\text{Sr}_{1-x}\text{Ln}_{2x/3}\text{MgP}_2\text{O}_7$  (Ln = Gd, Eu, Dy, Sm, Pr and Nd; x = 0.05)" in **Spectroscopy Letters**, 44, 258-266. (2011).
22. **P. Suresh**, A. Sathyanarayana, G. Prabusankar\*, O. Hernandez and S. Golhen, The first monomeric  $\beta$ -diketiminato stabilized four coordinated bismuth(III) bistrifluoromethanesulfonate, *Journal of Inorganic and General Chemistry*, **2012**, 638, 617–620.
23. **P. Suresh**, A. Samanta, A. Sathyanarayana and G. Prabusankar\*, Synthesis and characterization of vinyl imidazolium salts: solution state study to realize the influence of different anions, *Journal of Molecular Structure*, **2012**, 1024, 170-175.

#### **International Journals published by Chemistry Faculty (2010-2011)**

24. **V. Rama Devi**, RadhaVelchuri, B. Vijaya Kumar, K. Ravi Kumar and M.Vithal," Low temperature Sol-Gel Synthesis of bulk and nanosized  $\text{NbTi}(\text{PO}_4)_3$  in **Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano Metal Chemistry** 40, 883-887, (2010).
25. RadhaVelchuri, B.Vijaya Kumar, **V. Rama Devi**, G. Prasad, M.Vithal, "Solid state metathesis synthesis of  $\text{BaTiO}_3$ ,  $\text{PbTiO}_3$ ,  $\text{K}_0.5\text{Bi}_0.5\text{TiO}_3$  and  $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$  in **Ceramics International**, 36, 1485-1489. (2010).
26. RadhaVelchuri, B. Vijaya Kumar **V. Rama Devi**, Sang IlSeok and M. Vithal, "Low temperature preparation of  $\text{NaTi}_2(\text{PO}_4)_3$  by sol-gel method" in **Int. Journal of Nanotechnology**, 1077-1086. (2010).

#### **National Journals published by Chemistry Faculty**

##### **National Journals published by Chemistry Faculty (2014-2015).**

1. **P. Suresh**, V. Munisamy and G. Prabusankar\*, Synthesis, characterization and applications of vinyl functionalized N-heterocyclic carbene supported



ruthenium(II)  
derivatives, *Indian Journal of Chemistry*, 2015, 54A, 588-595.

### **National Journals published by Chemistry Faculty (2013-2014)**

2. K. Laxmi, "Theoretical Approach on structural aspects of antiepileptic agent indoline-2,3- dione-3-oxime by arguslab 4 software" in **Journal of Applied Chemistry**, 2014, 2 (1):98-107.
3. K. Laxmi, "A Study on Chelation and Antimicrobial Activity of The Complexes of 4-Amino-5-Phenyl-3-Mercapto-1,2,4-Triazole and Its Benzylidene Derivatives" in **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, Jan-Feb 2014 ,5(1) Page No. 408-417, ISSN: 0975-8585.
4. K. Laxmi, "A study on Structural Aspects and Biological Activity of (E)-N'-[2- Hydroxybenzylidene]benzohydrazide and its Metal Complexes" in **IOSR Journal of Applied Chemistry** ,Volume 7, Issue 12 Ver. I. (Dec. 2014), PP 12-22

### **National Journals published by Chemistry Faculty (2012-2013)**

5. V. Rama Devi, B. Vijaya Kumar, Radha Velchuri, Palla Suresh, G. Ravi, M. Vithal," Effect of crystallite size on electron resonance of  $Gd^{3+}$  and luminescence of  $Eu^{3+}$  doped in  $La_6WO_{12}$  IN **Indian Journal of Engineering & Materials Science** 19, 204-208. (2012).
6. K. Laxmi, "A Study on structural aspects of N'-[1-(2,4-dihydroxy phenyl) ethylidene] benzohydrazide and its metal complexes: Experimental and Theoretical Approach" in **Journal of Indian Chemical Society**, Vol 90, May 2013, 689-694, ISSN:0019-4522.
7. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida, Satyanarayana Nallani\* "A study on densities and ultrasound velocities in the ( $\square$ -butyrolactone + aliphatic ester) system at temperatures (303.15 to 313.15) k". **International Journal of Engineering Research and Technology**, Vol. 1 Issue 8, October, (2012). ( ISSN: 2278-0181).
8. Amara Jyothi Koppula, **Murali Krishna Patwari**, Sathyanarayana Boodida and Satyanarayana Nallani, "Study of densities and Ultra Sound



Velocities of The Binary Systems of  $\gamma$ -Butyrolactone with Alkyl Nitriles at Temperatures (303.15 to 313.15) K”. **ISST Journal of Applied Chemistry**, Vol. 3 No. 2, (July - December 2012), p.p. 33-38. (ISSN: 0976-7355).

### **National Journals published by Chemistry Faculty (2011-2012)**

9. **K. Laxmi**, “Spectro - analytical studies on (E)- N'- (2-hydroxybenzylidene) benzohydrazide and its interaction with Cu(II), in **Journal of Indian Chemical Society**, Vol.88, Feb 2011, pp.183-187 ,ISSN:0019-4522
10. **K. Laxmi**, “Nanotechnology and Nano scale devices – Applications in the treatment of Cancer., in **Everyman’s Science**. The Indian Science Congress Association, Kolkata, Vol.XIV No. 5 , Jan 2011 ,301-307 , ISSN: 0531-495X

### **INTERNATIONAL CONFERENCES PUBLISHED CHEMISTRY FACULTY (2014-2015)**

11. I. P. Suresh, C. N. Babu and G. Prabusankar\*, Unprecedented cyclic zinc dimer and polynuclear cadmium coordination polymers based on imidazole ligands, symposium on International Conference on Coordination Chemistry (ICCC-41), Suntec Singapore convention & exhibition centre, Singapore, July 21-25, 2014 (flash presentation).

### **INTERNATIONAL CONFERENCES PUBLISHED CHEMISTRY FACULTY (2012-2013)**

12. K. Ramesh, P. Giridhar Reddy, K. C. Rajanna \*, “Poly (ethylene glycol) Supported Solvent free protocol for the synthesis of  $\beta$  - nitro styrenes from  $\alpha$ ,  $\beta$ - unsaturated carboxylic acids in presence of transition metal nitrates” International Conference on Interface between Chemistry and Environment-2012” held at Ramjas College, University of Delhi, Delhi-110007, India, during 13/12/2012 to 14/12/2012. (Poster Presented).



## NATIONAL CONFERENCES PUBLISHED

### CHEMISTRY FACULTY (2014-2015)

13. P. Suresh and G. Prabusankar\*, Semi rigid imidazolium carboxylate controlled structural topologies in zwitterionic coordination networks, National symposium in chemistry (CRSI-NSC-17), CSIR-NCL Pune, India, February 6-8, 2015 (poster presentation).

### NATIONAL CONFERENCES PUBLISHED CHEMISTRY

#### FACULTY (2013-2014)

1. **P. Suresh** and G. Prabusankar\*, Luminescent flexible imidazolium carboxylate supported aggregate and infinite coordination polymers, symposium on *Modern Trends in Inorganic Chemistry (MTIC-XV)*, Indian Institute of Technology Roorkee, India, Dec 13-16, **2013** (poster presentation).

### NATIONAL CONFERENCES PUBLISHED CHEMISTRY

#### FACULTY (2011-2012)

1. P. Suresh and G. Prabusankar\*,  $\Pi$ -Functionalized N-heterocyclic carbenes (NHCs) and its applications, symposium on Modern Trends in Inorganic Chemistry (MTIC-XIV), University of Hyderabad, India, Dec 10-13, 2011 (poster presentation).
2. K. Laxmi, "Spectral and Computational studies of 4-chloro (E)- N'-(2-hydroxybenzylidene) benzohydrazide and their metal complexes" National Seminar on recent advances in heterocyclic chemistry (NSRAHC-2011). JNTUH College of Engineering, Hyd. (poster presentation).
3. K. Laxmi, "Nanomaterials – applications in medicine and Biology" World Congress on Biotechnology, Hyderabad, 4th- 6th May, 2012 (Oral Presentation)





### **Conferences Attended by the Faculty of CHEMISTRY (2015-2016)**

4. Dr. P. Giridhar Reddy Professor, attended and participated a Management Development Programme on “Academic leadership programme for TEQUIP institutions” organized by Indian Institute of Management Kozhikode, from 26-10-2015 to 31-10-2015.
5. Dr. K. Laxmi, attended a National conference on Engineering materials, Energy and Environment under (Teqip II ) EMEE -15 on April 24 ,24 2015 organised by Department of Physics , CBIT.
6. Dr. K. Laxmi Professor, Dr. M. Mamatha Asst Professor, attended and participated a Two day National conference on “Engineering materials, Energy and Environment (EMEE -15)” under (Teqip II) on April 24-25, 2015 organized by Department of Physics, C.B.I.T, Hyderabad.
7. Dr. K. Ramesh Asst Professor attended and participated a Two day National conference on “Sustainability through Chemical and Biological Sciences” on March 19-20, 2015 organized by Department of Chemistry, M.G.I.T, Hyderabad.

### **Conferences Attended by the Faculty of CHEMISTRY (2014-2015)**

8. Dr. P. Giridhar Reddy Professor, Dr. K. Laxmi Professor, Dr. M. Mamatha Asst Professor, attended and participated a one day Seminar on “Academia- Industry interface”organised by Department of Chemistry, Osmania University, Hyderabad on 6th August 2014.
9. Dr. K. Ramesh Asst Professor attended and participated International Workshop on “Advances in Fibre Reinforced Polymers and Composites.”(IWAFRPC-2014) under TEQIP-II, organized by Department of Civil Engineering, C.B.I.T, Hyderabad from 13- 03-2014 to 14-03-2014.
10. Dr. K. Ramesh Asst Professor attended and participated UGC sponsored two days National Seminar on “Advanced Spectro-Analytical Techniques. Organized by Department of Chemistry, Loyola



Academy Degree and PG College, oldalwal, Secunderabad from 11-09-2014 to 12-09-2014.

### **Conferences Attended by the Faculty of CHEMISTRY (2013-2014)**

11. Dr. K. Nagi Reddy Assoc Professor, Dr. P. Giridhar Reddy Professor, Dr. K. Laxmi Professor, Dr. K. Ramesh Asst Professor, Dr. M. Mamatha Asst Professor, attended and participated a Two day National Symposium on “Role of Chemistry in Advanced Engineering Materials” organized by Department of Chemistry, Vasavi College of Engineering, Hyderabad on 26-27th July-2013
12. Dr. K. Laxmi Professor, Dr. K. Ramesh Asst Professor, Dr. M. Mamatha Asst Professor, attended and participated a Two Day National Conference on “Sustainability, Energy and Environment (SCE-2013)” organized by Department of Civil Engineering, C.B.I.T, Hyderabad on 1st & 2nd of August-2013.

### **Conferences Attended by the Faculty of CHEMISTRY (2012-2013)**

13. Dr. P. Giridhar Reddy Assoc Professor attended a Two day Workshop on “Leading from the heart” on 12th & 13th March 2013, organized by Department of CSE, CBIT, Hyderabad
14. Dr. K. Laxmi Assoc Professor and Dr. M. Mamatha Asst Professor attended a National Workshop on “Role of chemistry in Drug Industry – 2013” (NWRCDI – 13) on February 04-05, 2013 at Jawarharlal Nehru Technological University, Hyderabad.
15. Dr. K. Laxmi Assoc Professor and Dr. M. Mamatha Asst Professor attended a National level Workshop on “Women in Science and Technology- Societal Impact” under Teqip II, on 8th & 9th March 2013, organized by women cell, CBIT, Hyderabad.
16. Dr. M. Mamatha Asst Professor, attended a series of guest lectures on “Applications of chemical engineering” conducted on 1st March 2013 at CBIT, Gandipet.



## **Conferences Attended by the Faculty of CHEMISTRY (2011-2012)**

17. Dr. K.Nagi Reddy Assoc Professor, Dr P.Giridhar Reddy Assoc Professor, Dr K. Laxmi Assoc Professor, Dr. Ramesh Asst Professor, Dr. Murali Krishna Asst Professor, attended and participated a two day Workshop on 'Nanotechnology and Its Applications (NANO 2012) during 27 and 28 February 2012 at CBIT Hyderabad.
18. Dr. K.Nagi Reddy Assoc Professor, Dr P.Giridhar Reddy Assoc Professor, Dr K. Laxmi Assoc Professor, Dr. Ramesh Asst Professor, Dr. Murali Krishna Asst Professor, attended and participated in a One Day Seminar on 'Innovation and Technology for Sustainable Development on April 12, 2012 at MGIT.
19. Dr K. Laxmi Assoc Professor attended a National Conference on 'Emerging Trends in Nuclear and Chemical technology (NACT-2012) at Gitam University, 2 and 3 April, 2012.
20. Dr. K.Nagi Reddy Assoc Professor, Dr. P.Giridhar Reddy Assoc Professor, Dr. K. Laxmi Assoc Professor, Dr. K. Ramesh Asst Professor, Dr. P. Murali Krishna Asst Professor, attended and participated a one day seminar on "Emerging Trends in engineering chemistry" organized by department of chemistry, VJIT, Hyderabad on 10th September-2012.
21. Dr. K. Ramesh Asst Professor, attended and participated in National Conference on "Biodiversity and Conservation of Natural Resources" Organized by Department of Botany, Osmania University College for Women, Koti, Hyderabad 500095 on 22nd September 2012.
22. Dr. K. Ramesh Asst Professor, attended and participated a Two day seminar on "Role of chemistry in modern life" organized by department of chemistry, A.V.College, in collaboration with NIPER, Hyderabad on 28-29, June-2012.
23. P. Suresh, Asst Professor, attended and participated a National workshop on "Introduction of Gaussian: theory and practice", Gaussian, Inc. Central Leather Research Institute and Indian Institute of Technology Madras, India, Jan 2-6, 2012.

## **STTP/ Refreshers courses / FDPs/ Orientation courses attended by the Faculty**



**(2014-2015)**

24. Dr. K. Ramesh Asst Professor, attended a “Refresher Course on Innovative methods in Green and Applied Chemistry”, organized by UGC- Academic Staff College, JNTU, Hyderabad, from 28-07-2014 to 19-8-2014.

**STTP/ Refreshers courses / FDPs/ Orientation courses attended by the Faculty**

**(2013-2014)**

1. Dr. K. Ramesh Asst Professor, attended a “20<sup>th</sup> Refresher Course in Chemistry”, organized by UGC- Academic Staff College, Osmania University, Hyderabad from 02-07-2013 to 23-7-2013.

**STTP/ Refreshers courses / FDPs/ Orientation courses attended by the Faculty**

**(2012-2013)**

25. Dr. Ramesh, Asst Professor, attended a 4 week Orientation Programme organized by UGC- Academic Staff College, Maulana Azad National Urdu University, Hyderabad from 10-5-2012 to 6-6-2012.
26. Dr.P.Giridhar Reddy, Assoc Professor, Dr.K.Ramesh, Asst Professor, attended a Faculty Development Programmes on “Latest trends in materials” organized by department of physics, VJIT College, Hyderabad on 24-25 August-2012.
27. Dr. P. Murali Krishna, Asst Professor, Mr.T.Srinivas, Asst Professor, attended a TEQIP sponsored Five day Faculty Development Programme organized by In-house Training centre, C. B. I. T, Gandipet, Hyderabad, during 24-29th, December -2012.

**20. Areas of consultancy and income generated: -----**

**21. Faculty as members in a) National committees b) International Committees c) Editorial**

**a) National committees**

S.NO	Name of the faculty	National Committee / Membership
1	Dr. P. Giridhar Reddy	ISTE



2	Dr. K. Laxmi	ISTE
3	Dr. K. Ramesh	ISTE
4	Dr. M. Mamatha	ISTE

**b) Editorial Boards....**

1. Dr. K.Ramesh, Asst.Professor was nominated as an Editorial Board member of "International Association of Scientific Innovation and Research (IASIR)".
2. Dr. K.Ramesh, Asst. Professor was nominated as reviewer for an "International Journal of Engineering Research and Technology" (IJERT) ISSN: 2278-0181; ISO 3297:2007.
3. Dr. K.Ramesh, Asst. Professor was nominated as reviewer for an "International journal of Innovative research in science, engineering and technology (IJIRSET)".

**BoS Members:**

S.NO	Name of the faculty	BoS Members
1	Dr. P. Giridhar Reddy	CBIT, CMR
2	Dr. K. Laxmi	CBIT
3	Dr. K. Ramesh	CBIT
4	Dr. M. Mamatha	CBIT

**22. Student projects: NA**

- a) Percentage of students who have done in-house projects including inter departmental/programme
- b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies

**23. Awards / Recognitions received by faculty and students: NA**

**24. List of eminent academicians and scientists / visitors to the department: NA**

**25. Seminars/ Conferences/Workshops organized & the source of funding**

- a) National
- b) International



Seminar / Conference/Workshops/	Topic	Source of funding
Seminars	“Nanomaterials: Synthesis and Applications”	CBIT

**b) International : NIL**

**26. Student profile programme/course wise: NA**

**27. Diversity of Students: NA**

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NA**

**29. Student progression : NA**

**30. Details of Infrastructural facilities**

**a) Library**

Central Library and Departmental Library made available.

**b) Internet facilities for Staff & Students:**

All the labs are equipped with equipment/ machines as per curriculum.

**c) Class rooms with ICT facility:**

**d) Laboratories:----**

**31. Number of students receiving financial assistance from college, university, government or other agencies: NA**

**32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts: NA**

**33. Teaching methods adopted to improve student learning**

1. Lecture interspersed with discussions (Chalk and Board)
2. Presentations with audio/visual aids like OHP and LCD
3. Group Discussions / assignments related to course
4. Seminars, Presentation (by students).
5. Remedial classes are conducted for slow learners

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities: ---**



- a. Blood donation camps
  - b. NSS student & teachers actively participated in tree plantation & rain water harvesting
  - c. Disciplinary committee for the welfare of the students
- Faculty has to maintain the class timings as per the scheduled time table strictly.
  - Every faculty has to maintain course file which consists of
    - Syllabus copy
    - Lesson plan
    - Lecture notes / Transparency / Power point presentation
    - Assignments
    - Previous University question papers
    - Mid Sessional question papers etc.

**35. SWOC analysis of the department and Future plans: --**

**I. STRENGTHS**

- Qualified, committed and motivated faculty members
- Good infrastructure in the department
- Well trained technical staff
- Good Scopus index publication by the faculty.
- Well equipped labs and systems with latest

**II. WEAKNESSES**

- Non availability of diversified research instrumentation and facilities
- Industry Institute Interaction is relatively poor
- Lack of in house accommodation for the faculty

**III. OPPORTUNITY**

- Research collaboration with OU, IIT, UOH etc
- To encourage the faculty and to provide necessary facilities for pursuing demand driven research.
- To start inter-disciplinary research works.

**IV. CHALLENGES**

- Motivating for mini projects
- To have more funded research projects from DST, AICTE & UGC

**V. FUTURE PLANS OF THE DEPARTMENT**

- Provide facilities for pursuing demand driven research by the faculty.
- Motivating all the faculty to do research and quality publications.
- Establishing of strong Research collaborations with OU, IIT, UOH etc



## **Post-accreditation Initiatives**

### **I. Additional funds for TEQIP-II Activities :**

The Institute was granted Rs.4 crores for TEQIP-II activities in the year 2011 with the participation of Central Government - 60% share, State Government - 20% and the Institute Share 20%.

The Institute has successfully implemented the activities as provided in the TEQIP-II programme and planned to apply for an additional grant of Rs.2.00 crores. Accordingly the Institute submitted the plan for two crores of additional grant from SPFU. Our Institute having been recognised as one of the well performing Institute of the TEQIP-II activities, approval was granted for an additional fund of Rs.2.00 crores vide e-mail dt.04.09.2015 from NPIU considering Rs.2.00 Crores of additional grant and sanction letter for 50% of additional grant of Rs.2.00 crores from SPFU vide letter No.SPFU.TS/TEQIPII/32/2011-16. dt.12.03.2016.

At present, the Institute is carrying on the activities under the additional grant of Rs.2.00 crores from the Institute's funds. SPFU has already released its 50% (Rs.50 lakhs) share of the first instalment of Rs.1 crore to the State Government with direction to release an amount of Rs.70 lakhs to the Institute including the State Government's share of 20% (Rs.20 lakhs).

### **II. Choice Based Credit System :**

The Institute has become autonomous from the year 2013-14 and has been framing its own syllabus for the courses run by the Institute. As a measure of reforming the course structure, it was planned to introduce Choice Based Credit System for the courses run by the Institute. Accordingly the proposal was put up to the Governing Body of the Institute and was approved at its meeting held on 08.10.2016 after the same was approved at the Academic Council Meeting held on dt.25.06.2016. The Choice Based Credit System is being implemented from the academic year 2016-17.

### **III. To apply for Private University Status in the State of Telangana:**

It is reported in the newspapers that the State Government is contemplating to bring the enactment to facilitate establishment of Private Universities in the State of Telangana. The General Body of the Institute at its meeting held on dt.14.11.2016 discussed this point and resolved to build up the necessary infrastructure to get Private University status as and when the State Government brings out the enactment in this regard.





#### **IV. Accreditation of 5 PG programmes :**

The Institute planned to get accreditation from NBA for the 5 PG Engineering programmes run by the Institute which are eligible for accreditation. Accordingly application was submitted and NBA granted accreditation to the 5 PG Programmes as applied for viz., ME - Computer Science & Engineering (CSE), ME - Structural Engineering (Civil Engg.), ME - Communication Engineering (ECE), ME - Computer Aided Design & Manufacturing (Mech. Engg.) and ME - Power Systems & Power Electronics (EEE) vide letter F.No.11-35/2010/NBA, dt.08.07.2016 for two years.

#### **V. Starting of New PG Programmes in emerging areas :**

The Institute planned to start new PG programmes in the emerging areas of Engineering and accordingly an application was made to AICTE. Approval granted by AICTE for these courses with an annual intake as under.

S. No.	Name of the Course / Department	Sanctioned year	Annual Intake
1.	Embedded Systems & VLSI Design (ECE)	2012	18
2.	Thermal Engineering (Mech. Engg.)	2012	18
3.	Earth Quake Engineering (Civil Engg.)	2013	18
4.	Computer Network & Information Security (IT)	2013	18

#### **V. Recognition as Research Centres :**

The Departments of Mechanical Engineering, Computer Science and Engineering, Electronics & Communication Engineering are already recognised as Research Centres for Ph.D. students by Osmania University. The Institute has applied for recognition of Civil Engineering and Electrical and Electronics Engineering also as Research Centres. Osmania University recently inspected these departments and the recognition as Research Centres for these departments is expected shortly.

#### **VI. Constitution of Committees :**

1. Internal Quality Assurance Cell constituted on 24.07.2011.
2. Grievance Redressal Cell constituted on 30.10.2014.
3. SC / ST Cell constituted on 27.05.2016.



**VII. New positions created after the Institute became Autonomous :**

Following posts are created at the General Body Meeting held on 05.12.2013.

- Dean - R&D (Research & Development)
- Dean - Student Affairs
- Dean - CDAAC ( Curriculum Development and Academic Audit Cell)
- Controller of Examinations
- Assistant Controller of Examinations (Evaluation)
- Assistant Controller of Examinations (Confidential)

As required under Autonomous guidelines, the Governing Body was constituted at the General Body meeting held on 05.12.2013.

Finance Committee was constituted at the 2nd Governing Body meeting held on 21.06.2014.

**VIII. Construction of New Buildings :**

- An exclusive building for Research activities is under construction.
- A separate block for PG courses is constructed.



## Declaration by the Head of the Institution

I, on behalf of Chaitanya Bharathi Institute of Technology (CBIT), hereby certify that the information provided in this Self Study Report (SSR) is true and to the best of my knowledge.

This SSR is being prepared by the institute after internal discussions and no part of the report has been outsourced.

I am looking forward for the NAAC peer team visit to evaluate our SSR and suggest recommendations for further holistic development of our institute.

  
5/12/16

Signature of the Head of the Institution

Place: Hyderabad

Date: 5-12-2016



**Annexure - I**

**Certificate of recognition u/s2(f) and 12(B) of the UGC Act**

UNIVERSITY GRANTS COMMISSION  
BARADUR SHAH ZAFAR MARG  
NEW DELHI-110002.

No. F.8-108/92 (CEP-I) July, 1994

**The Registrar**  
Osmania University  
Hyderabad-500007.

**Chaitanya Bharathi Institute of Technology**  
Hyderabad-500071.

2 AUG 1994

Sib: List of colleges prepared under Section 2 (f) of the UGC Act, 1956-Inclusion of New Colleges.

Sir, I am directed to refer to your letter No. CHIT/F.104/92/CDC dated 6th June, 1994 on the above subject and to say that the name of the following college has been included in the above list under Non Govt. Colleges teaching upto Bachelor's Degree :-

<u>Name of the college</u>	<u>Year of Estt.</u>	<u>Remarks</u>
Chaitanya Bharathi Institute of Technology, Hyderabad-500007 ( Dr. S.R. Reddy )	1979-80	The College is eligible to receive central assistance in terms of the rules framed under Section 12-B of the UGC Act, 1956.

The Indemnity Bond and other documents in respect of the above college has been accepted by the Commission.

Yours faithfully,  
*R.L. Sondhi*  
( R.L. SONDHAI )  
UNDER SECRETARY

Copy forwarded to :-


1. The Principal, Chaitanya Bharathi Institute of Technology Hyderabad-500071. *500171*
2. The Secretary, Govt. of India, Ministry of Human Resource Development ( Deptt. of Education, T-14 Section) New Delhi.
3. All Officers/Sections in the UGC Office.
4. S.O., FD-III/CD-I UGC Office.
5. Incharge Computer Cell, UGC.
6. Guard file.

*Attended*  
*11/11/94*  
*D D KAPHA*  
SECTION OFFICER



**Annexure -II**

**Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)**



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandrababai Building, Jangpeth, New Delhi- 110 001  
PHONE:- 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. South-Central/1-2013133675/2016/EOA Date: 25-Apr-2016

To,

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the Institution for Extension of approval for the academic year 2016-17.

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations, 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/06/2012 and norms, standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-Central	Application No	1-2013133675
Name of the Institute	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	Permanent No	14732591
Name of the Society/Trust	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	Institute Address	CHAITANYA BHARATHI POST, GANDAPET, KODAKPET (MIL.), HYDERABAD, SUBURBS, HYDERABAD, RANGAREDDI, Telangana, 500075
Institute Type	Unaided - Private	Society/Trust Address	CHAITANYA BHARATHI (P.O), GANDAPET, KODAKPET (MIL.), RAJENDRANAGAR, HYDERABAD- 50 HYDERABAD RANGAREDDI, Telangana (500075)

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application No	Course			Medium	Willing Body	Intake 2016-16	Intake Approved for 2016-17	MCI Approval status	PCI/DCI/Other bodies Approval status	Foreign Collaborator/Training Program Approval status	
	Program	Shift	Level								
1-2013133675	ENGINEERING AND TECHNOLOGY	1st Shift	PGD T OBA DUA TE	CAD/CAM	FULL TIME	Oriental University, Hyderabad	25	20	NA	NA	NA

Application Number: 1-2013133675  
Note: This is a Computer generated Report; signature is required.  
Printed By : AERS201 Page 1 of 4  
Letter Printed On: 28 April 2016



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandrasekhar Building, Janpath, New Delhi- 110 001  
PHONE: 23724181/5253/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATIONS ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER NETWORKS AND INFORMATION SECURITY	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	30	30	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	EARTHQUAKE ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	EMBEDDED SYSTEM AND VLSI DESIGN	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER SYSTEMS AND POWER ELECTRONICS	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	25	25	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	THERMAL ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	19	18	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	BIO TECHNOLOGY	FULL TIME	O.P.J.S. University Hyderabad	80	80	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CHEMICAL ENGINEERING	FULL TIME	O.P.J.S. University Hyderabad	80	80	Yes	NA	NA

Application Number: 1-2013-33575  
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7th Floor, Chandrasekhar Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	CIVIL ENGINEERING	FULL TIME	Central University, Hyderabad	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Central University, Hyderabad	100	100	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Central University, Hyderabad	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	ELECTRONICS & COMMUNICATION ENGINEERING	FULL TIME	Central University, Hyderabad	100	100	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	INFORMATION TECHNOLOGY	FULL TIME	Central University, Hyderabad	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	MECHANICAL ENGINEERING	FULL TIME	Central University, Hyderabad	120	120	Yes	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UND ER GRA DUATE	PRODUCTION ENGINEERING	FULL TIME	Central University, Hyderabad	80	80	Yes	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Central University, Hyderabad	80	80	NA	NA	NA
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Central University, Hyderabad	80	80	NA	NA	NA

The above mentioned approval is subject to the condition that CHHATWA BHARATHI INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

Application Number: 1-2011-33675  
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In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(A) of the said Regulation.

**Note:- Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Dr. Avinash S Pant**  
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
First Floor, old BICARD Building  
Jawahar Lal Nehru Technological University  
Mazab Tank, Hyderabad-500076
2. **The Director Of Technical Education,**  
Telangana
3. **The Registrar,**  
Daman University, Hyderabad
4. **The Principal / Director,**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY,  
CHAITANYA BHARATHI POST, GANDIPET, KOKAPET (VILL.),  
HYDERABAD, 500075,  
HYDERABAD, RANGAREDDI,  
Telangana, 500075
5. **The Secretary / Chairman,**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI (P.O.)  
GANDIPET, KOKAPET (VILL.),  
RAJENDRANAGAR,  
HYDERABAD-75,  
HYDERABAD, RANGAREDDI,  
Telangana, 500075
6. **Guard File(AICTE)**

Application Number: 1-2013-133075  
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F.No. South-Central/1-2813419526/2016EOA

Date: 25-Apr-2016

To,

**Subj: Extension of approval for the academic year 2016-17**

Ref: Application of the institution for Extension of approval for the academic year 2016-17.

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-Central	Application No	1-2813419526
Name of the Institute	CHRITANYA BHARATH INSTITUTE OF TECHNOLOGY	Personnel to	1-18083441
Name of the Society/Trust	CHRITANYA BHARATH INSTITUTE OF TECHNOLOGY	Institute Address	CHRITANYA BHARATH POST, GANDREPET, KOTAPET (VILL.), HYDERABAD, HYDRABAD, RANGAREDDI, Telangana, 508075
Institute Type	Unaided - Private	Society/Trust Address	CHRITANYA BHARATH (P.O) GANDREPET, KOTAPET (VILL.), RAJENDRANAGAR, HYDERABAD, HYDRABAD, RANGAREDDI, Telangana 508075

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approval and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application No: 1-2813419526			Course	Full Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	MCI Approval status	PDC / ISI / Gulf Council Approval status	Foreign Collaborative/Training Program Approval status
Program	Shift	Level								
MCA	1st Shift	POST GRADUATE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	Oriental University, Hyderabad	80	80	NA	NA	NA

Application Number: 1-2813419526  
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

The above mentioned approval is subject to the condition that CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 5(i) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

Dr. Avinash S Pant  
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
First Floor, old BICARD Building  
Jawahar Lal Nehru Technological University  
Mussab Tank, Hyderabad-500075
2. **The Director Of Technical Education,**  
Telangana
3. **The Registrar,**  
Osmania University, Hyderabad
4. **The Principal / Director,**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI POST, GANDIPET, KOKAPET (VILL.),  
HYDERABAD,  
HYDERABAD, RANGAREDDI,  
Telangana,500075
5. **The Secretary / Chairman,**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI (P. O) GANDIPET,  
KOKAPET (VILL.),  
RAJENDRANAGAR,  
HYDERABAD,  
HYDERABAD, RANGAREDDI,  
Telangana,500075
6. **Guard File(AICTE)**

Application Number: 1-201341928  
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F.No. South-Central/1-2813131042/2016EOA

Date: 25-Apr-2016

To,

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms, standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	South-Central	Application No	1-2813131042
Name of the Institute	CHAITANYA BHARATHI INST. OF TECHNOLOGY (MBA)	Permanent No	1-1454944
Name of the Society/Trust	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY	Institute Address	CHAITANYA BHARATHI POST, GANDEPETA, KOKAPET(VILL.), HYDERABAD - 500075, HYDERABAD, RANGAREDDI, Telangana, 500075
Institute Type	Unaided - Private	Society/Trust Address	CHAITANYA BHARATHI POST, KOKAPET VILLAGE, RAJENDRA NAGAR MANDAL, RANGA REDDY DIST, HYDRABAD, RANGAREDDI, Telangana, 500075

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approval and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application No: 1-2813131042			Course	Full Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	MBA Approval status	PDC/ENL/Gulf/Other Approval status	Foreign Collaborative/Training Program Approval status
Program	Shift	Level								
MBA/MBAE/MT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Central University, Hyderabad	120	128	NA	NA	NA

The above mentioned approval is subject to the condition that CHAITANYA BHARATHI INST. OF TECHNOLOGY (MBA) shall follow and

Application Number: 1-2813131042  
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PHONE- 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the Institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

**Strict compliance of Anti-Ragging Regulation:** Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2008 dated July 1, 2008 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note:** Validity of the above details may be verified at [www.aicte-india.org](http://www.aicte-india.org)

Dr. Avisash S Pant  
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
First Floor, old BICARD Building  
Jawahar Lal Nehru Technological University  
Masab Tank, Hyderabad-500078
2. **The Director Of Technical Education,**  
Telangana
3. **The Registrar,**  
Osmania University, Hyderabad
4. **The Principal / Director,**  
CHAITANYA BHARATHI INST. OF TECHNOLOGY (MBA)  
CHAITANYA BHARATHI POST, GANDIPET, KOKAPET(VILL.), HYDERABAD - 500075,  
HYDERABAD, RANGAREDDI,  
Telangana, 500075
5. **The Secretary / Chairman,**  
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
CHAITANYA BHARATHI POST,  
KOKAPET VILLAGE, RAJENDRA NAGAR NANDAL,  
RANGA REDDY DIST,  
HYDERABAD, RANGAREDDI,  
Telangana, 500075
6. **Guard File(AICTE)**


Application Number: 1-261131043  
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**Annexure -III**

**Osmania University Affiliation Letter**



**OSMANIA UNIVERSITY**  
HYDERABAD - 500 007

No: ME/ST/1/2014-15/Acad.IV-1  
157 Dated: 10-7-2015

**TO WHOM IT MAY CONCERN**


This is to certify that Chaitanya Bharathi Institute of Technology, Chaitanya Bharathi P.O., CBIT Campus, Gandipet, Kokapet (V), Rajendranagar Mandal, Ranga Reddy District is affiliated to the Osmania University since 1979 and recognized by the University Grants Commission under Section 2(f) and 12 (B) of UGC Act, 1956. Also CBIT was conferred Autonomous status under UGC from 2013-14 to 2018-19. The following courses/subjects are taught in the said college as per approval.

S.No.	Name of the Course	Intake	Affiliation	Period of validity of the year(s)
			Permanent/ Temporary	
<b>I. UG COURSES</b>				
1.	B.E. (Civil)	120	Permanent	2013-14 to 2018-19
2.	B.E. Mechanical Engg.	120	Permanent	2013-14 to 2018-19
3.	B.E. Production Engg.	60	Permanent	2013-14 to 2018-19
4.	B.E. Computer Sc. & Engg.	180	Permanent	2013-14 to 2018-19
5.	B.E. Information Tech.	120	Permanent	2013-14 to 2018-19
6.	B.E. Electronics & Comm. Engg.	180	Permanent	2013-14 to 2018-19
7.	B.E. Elect. & Electronics Engg.	120	Permanent	2013-14 to 2018-19
8.	B.Tech. Chemical Engg.	60	Permanent	2013-14 to 2018-19
9.	B.Tech. Bio-Technology	60	Permanent	2013-14 to 2018-19



-2-

<b>II) PG COURSES</b>				
1.	M.E. Civil (Structural Engg.)	25	Permanent	2013-14 to 2018-19
2.	M.E. Mech. (CAD/Cam)	25	Permanent	2013-14 to 2018-19
3.	M.E. Mech. (Thermal Engg.)	18	Permanent	2013-14 to 2018-19
4.	M.Tech. Comp.Sc. & Engg.	36	Permanent	2013-14 to 2018-19
5.	M.E. ECE (Communication Engg.)	18	Permanent	2013-14 to 2018-19
6.	M.E. EEE (Power Systems & Power Electronics)	18	Permanent	2013-14 to 2018-19
7.	M.E. ECE (Embedded Systems & Power Electronics)	18	Permanent	2013-14 to 2018-19
8.	M.E. Civil (Earthquake Engg.)	18	Temporary	2013-14 to 2018-19
9.	M.Tech. IT (Computer Networks & Information Security)	18	Temporary	2013-14 to 2018-19
10.	Master of Business Administration (MBA)	120	Permanent	2013-14 to 2018-19
11.	Master of Computer Applications (MCA)	60	Permanent	2013-14 to 2018-19

  
**REGISTRAR**  
(Prof.E.Suresh Kumar)



OSMANIA UNIVERSITY  
HYDERABAD - 500 007



No. 978 /U/1601-Engg./2012-13/Acad.IV-1  
10K

Dated: 22-7-2013

**ORDERS**

Sub:- Affiliated College - Grant of Autonomy to Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad from the academic year 2013-2014 to 2018-2019 - Orders - Issued.

Ref: - 1. Letter No.F.22-1/2013(AC), dated 22.5.2013 from the Joint Secretary, University Grants Commission, New Delhi.  
2. Your letter No. CBIT/699/Autonomous/2013, dated 5.6.2013.

Based on the approval of the University Grants Commission, New Delhi and on the recommendations of the University Inspection Committee and in anticipation of the approval of the Standing Committee and Executive Council, sanction is hereby accorded for grant of Autonomy to Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, from the academic year 2013-2014 to 2018-2019, subject to UGC, AICTE guidelines and general rules of affiliation of Osmania University.

*M. Reddy*  
REGISTRAR

To  
The Principal / Secretary,  
**Chaitanya Bharathi Institute of Technology,**  
Chaitanya Bharathi P.O., Gandipet,  
Hyderabad - 500 075.

Copy to:

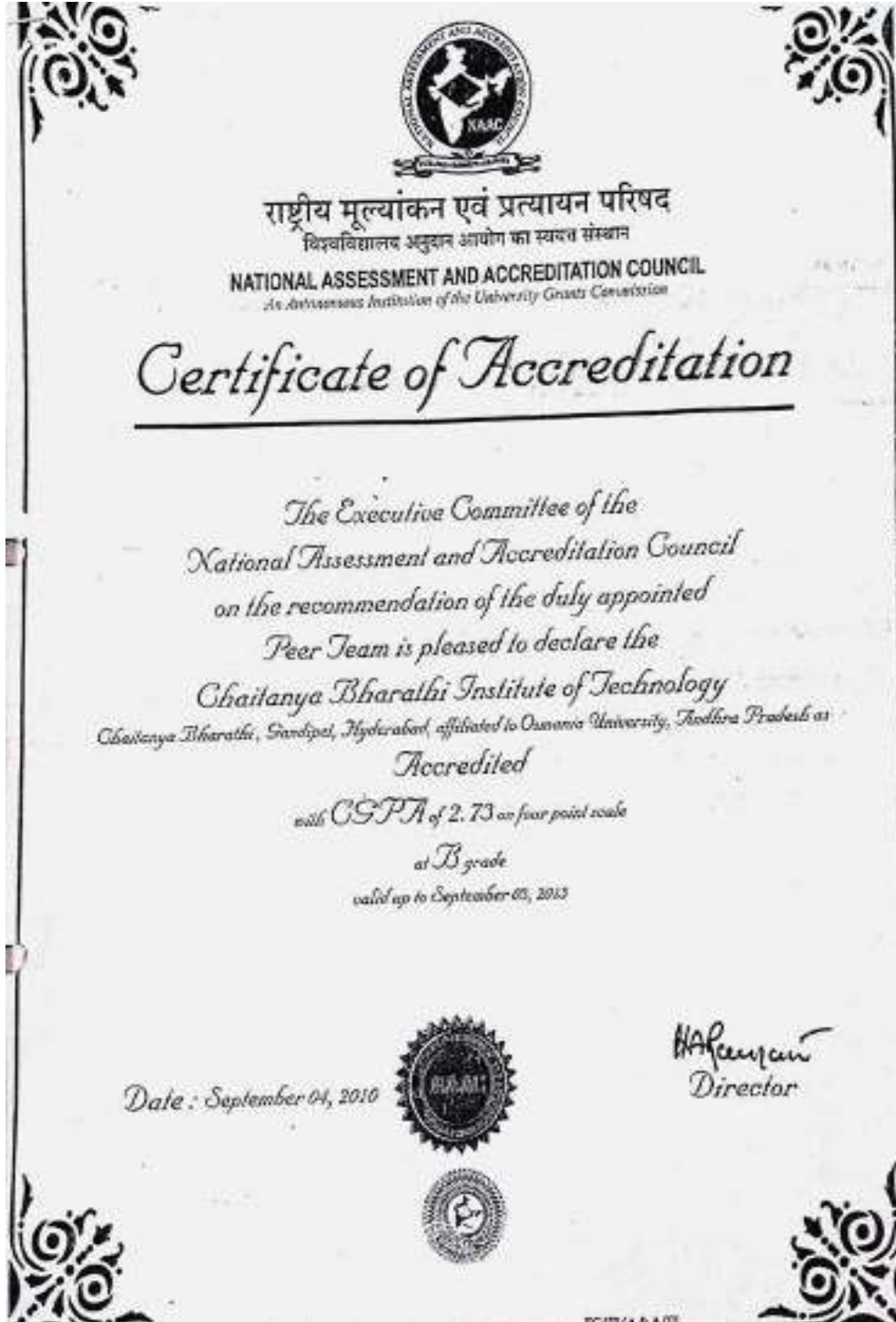
1. The Dean, Faculty of Engineering/Informatics, O.U.
2. The Dean, Faculty of Technology, O.U.
3. The Head, Dept. of Civil/CSE/ECE/Electrical/Mechanical Engineering, UCE, O.U.
4. The Head, Dept. of Bio-Technology/Chemical Engg., UCT, O.U.
5. The Chairman, BOS in Civil/CSE/ECE/Electrical/Mechanical Engg., O.U.
6. The Director, Directorate of Academic Audit, O.U.
7. The Director, Directorate of Admissions, O.U.
8. The Controller of Examinations, O.U.
9. The Secretary to Vice-Chancellor, O.U.
10. The P.A. to Registrar, O.U.
11. The Chairman/Member Secretary, All India Council for Technical Education, 7<sup>th</sup> Floor, Chandra Lok Building, Janpath, New Delhi - 110 001.
12. The Commissioner of Technical Education, BRKR Buildings, 5<sup>th</sup> Floor, Block-D, Tank Bund Road, Hyderabad.
13. The Secretary, APSCHE, JNTU Campus, Mahaveer Marg, Masab Tank, Hyderabad.

*AEC*  
*M. J. Reddy*  
*13/8/13*



**Annexure -IV**

**Accreditation certificate**







## Peer Team Report

Peer Team Report  
on  
Institutional Accreditation  
of

Chaitanya Bharathi  
Institute of Technology

Hyderabad 500075

(Dates of Visit: 8 – 10 March 2010)

National Assessment and Accreditation  
Council

Bangalore - 560 072, India

  
10/03/10



Peer Team Report on  
Institutional Accreditation of  
**Chaitanya Bharathi Institute of Technology**  
**Hyderabad 500075**  
( Dates of visit : 8 – 10 March 2010 )

<b>Section I : GENERAL INFORMATION :</b>	
<b>1.1 Name &amp; Address of the Institution :</b>	Chaitanya Bharathi Institute of Technology (CBIT) Chaitanya Bharathi Post, Hyderabad 500075, Andhra Pradesh.
<b>1.2 Year of Establishment :</b>	September 1979.
<b>1.3 Current Academic Activities at the Institution :</b>	
• <b>Faculties / Schools :</b>	Faculties - 02 i. Engineering & Science ii. Management
• <b>Departments / Centers :</b>	Departments - 10
• <b>Programs / Courses offered :</b>	UG Programs - 09; PG Programs - 07
• <b>Permanent Faculty :</b>	Permanent-166, Sanctioned -203
• <b>Permanent Support Staff :</b>	Non-teaching -113, Technical -109
• <b>Students (2009-10) :</b>	UG Students - 2003 PG Students - 465
<b>1.4 Three Major Features in the Institutional Context :</b>	<ul style="list-style-type: none"> <li>• A self financed co-ed professional Institution affiliated to Osmania University, Hyderabad, started in 1979..</li> <li>• Institute attracts good quality students from nearby region.</li> <li>• ISO 9001-2000 certified Institute.</li> </ul>
<b>1.5 Dates of the visit of the Peer Team :</b>	8 – 10 March 2010 (Detailed visit schedule attached).
<b>1.6 Composition of the Peer Team which Undertook the On-site Visit :</b>	
<b>Chairperson :</b>	Prof. A. Sridharan (Chairperson) (Former Deputy Director & Advisor I.I.Sc, Bangalore), Res. # 40, Sapthagiri, West Park Road, Between 17 <sup>th</sup> - 14 <sup>th</sup> Cross, Malleswaram, Bangalore - 560003, Karnataka.

*(Handwritten Signature)*



<b>Member Coordinator:</b>	Prof. B. V. Babu Dean, Educational Hardware Division, Professor in Chemical Engineering Birla Institute of Technology and Science Pilani 333 031, Rajasthan.
<b>Member :</b>	Prof. S. D. Bhide ( Member) (Former Principal, Cummins College of Engineering for Women) #136 , Erandawane Srinivas Villa – C, Flat No. 603, Near C.D.S.S., Pune-411 004 (Maharashtra).
<b>NAAC Coordinating Officer :</b>	Dr. Jagannath Patil Dy. Advisor, NAAC, Bangalore – 560 072.

<b>Section II : CRITERION WISE ANALYSIS :</b>	
<b>2.1 Curricular Aspects :</b>	
<b>2.1.1 Curricular Design &amp; Development :</b>	<ul style="list-style-type: none"> <li>• A well defined vision and mission statements are in place.</li> <li>• Use of ICT in teaching / learning process be enhanced.</li> <li>• The curricula of all the UG and PG programs are prepared by Osmania University and participation of faculty, industry and students is limited in formulation of the curricula.</li> <li>• Some of the heads of Departments and few other teachers are members of 'Boards of Studies' of Osmania University for respective subjects.</li> </ul>
<b>2.1.2 Academic Flexibility :</b>	<ul style="list-style-type: none"> <li>• Choice based credit system is yet to be implemented.</li> <li>• Admissions for UG programs through EAMCET and for PG programs through GATE, ICET and PGCET examinations.</li> <li>• Academic flexibilities are limited and constrained being an affiliated college.</li> </ul>
<b>2.1.3 Feedback on Curriculum :</b>	<ul style="list-style-type: none"> <li>• Feedback obtained from all stakeholders is discussed in faculty board meetings before communicating to Osmania University.</li> <li>• Formal feedback form is available for obtaining feedback from all stakeholders except the parents.</li> <li>• No systematic procedure of analyzing feedback on curriculum, exists.</li> </ul>

*(Handwritten signature)*



<b>2.1.4 Curriculum Update :</b>	<ul style="list-style-type: none"> <li>• Curriculum updates for UG and PG programs are done by Osmania University once in every 4 to 6 years.</li> <li>• Being an affiliated Institution, there are constraints in addressing the thrust on National development.</li> </ul>
<b>2.1.5 Best Practices :</b>	<ul style="list-style-type: none"> <li>• Faculty members are encouraged to prepare teaching plans and course outlines for every subject.</li> </ul>
<b>2.2 Teaching, Learning and Evaluation :</b>	
<b>2.2.1 Admission Process and Student Profile :</b>	<ul style="list-style-type: none"> <li>• Publicity to admission process is done through college notice board, advertisements in news papers and Institution's website.</li> <li>• Admissions executed on the basis of merit achieved in the common entrance test conducted by A.P.S.H.E for 70% seats. Remaining 30% seats are filled up under management quota.</li> <li>• Cut-off percentages of the selected students are good.</li> </ul>
<b>2.2.2 Catering to Diverse Needs :</b>	<ul style="list-style-type: none"> <li>• Special classes are conducted for slow learners.</li> <li>• No specific mentoring system has been established, however, every teacher acts as a mentor for his class.</li> <li>• No special opportunities are provided to advanced learners.</li> <li>• Reservation policies are followed as per Osmania University / State Govt. norms.</li> </ul>
<b>2.2.3 Teaching-Learning Process :</b>	<ul style="list-style-type: none"> <li>• Academic and extracurricular calendars along with course outlines are prepared at the beginning of the semester.</li> <li>• OHP projectors have been used for teaching learning activities, however, use of LCD projectors should be implemented for all the subjects.</li> <li>• Faculty members keep pace with the recent developments through on-line journals and through internet material.</li> </ul>
<b>2.2.4 Teacher Quality :</b>	<ul style="list-style-type: none"> <li>• 166 faculty members are appointed on regular basis and 34 are appointed on adhoc basis.</li> <li>• Out of 166 existing faculty members, 42 members are with Ph. D. qualifications.</li> </ul>

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	<ul style="list-style-type: none"> <li>Faculty development programs are limited to only deputations to conferences / seminars / higher studies with partial financial support.</li> </ul>
<b>2.2.5 Evaluation Process and Reforms :</b>	<ul style="list-style-type: none"> <li>Students' grievance redressal cell has been established as per the rules of University.</li> <li>Students' academic progress and their attendance record are communicated to parents periodically.</li> </ul>
<b>2.2.6 Best Practices in Teaching- Learning Process :</b>	<ul style="list-style-type: none"> <li>The activity of conducting lectures of eminent experts from reputed Institutes is present, however, there is a scope for enhancement.</li> </ul>
<b>2.3 Research, Consultancy and Extension :</b>	
<b>2.3.1 Promotion of Research :</b>	<ul style="list-style-type: none"> <li>Faculty members may be encouraged to participate in various research activities.</li> <li>There is lack of any dedicated research laboratory.</li> <li>There are no laid down policies for incentives to faculty for their quality research output.</li> <li>Budget allocation for research activity is insufficient.</li> </ul>
<b>2.3.2 Research and Publication Output :</b>	<ul style="list-style-type: none"> <li>Twelve faculty members are recognized as Ph.D. supervisors.</li> <li>Faculty members of CBIT have authored some books and a good number of conference / journal papers.</li> <li>Department of Mechanical Engineering is recognized as a research center.</li> </ul>
<b>2.3.3 Consultancy :</b>	<ul style="list-style-type: none"> <li>Consultancy activities exist in the Institute, however, these activities seem to be limited to Civil Engineering Department and they need be enhanced.</li> </ul>
<b>2.3.4 Extension Activities :</b>	<ul style="list-style-type: none"> <li>Extension activities like blood donation camps in association with NGOs as well NCC, NSS activities exist in the Institute.</li> <li>For extension activities, emphasis needs to be given to partner with research Institutions, Industries and NGOs.</li> </ul>
<b>2.3.5 Collaboration :</b>	<ul style="list-style-type: none"> <li>Limited collaborations exist with industries.</li> <li>Collaborative research output in the form of technology development, publications and patents, is to be initiated.</li> </ul>
<b>2.3.6 Best Practices in Research, Consultancy and Extension :</b>	



<b>2.4 Infrastructure and Learning Resources :</b>	
<b>2.4.1 Physical Facilities for Learning :</b>	<ul style="list-style-type: none"> <li>• Adequate Infrastructure facilities for academic, co-curricular and extracurricular activities.</li> <li>• Broad band internet connectivity of 4 MBPS in the campus has been provided, however It needs to be upgraded and Wi-fi connectivity to be provided.</li> <li>• Separate wash and rest rooms are provided for girl students.</li> </ul>
<b>2.4.2 Maintenance of Infrastructure :</b>	<ul style="list-style-type: none"> <li>• Infrastructure facilities are maintained by the in-house technical staff as well as staff appointed on contract basis.</li> <li>• The campus is maintained with clean and green environment however, overall maintenance may be improved.</li> </ul>
<b>2.4.3 Library as Learning Resources :</b>	<ul style="list-style-type: none"> <li>• The library operations are partially computerized.</li> <li>• Prominent notification of latest library acquisitions.</li> <li>• Allocated budget for library is very less and even that is not utilized completely.</li> </ul>
<b>2.4.4 ICT as Learning Resources :</b>	<ul style="list-style-type: none"> <li>• Central computing facility along with good number of licensed software packages is available.</li> <li>• CBIT has its own web site and is updated frequently with the current developments of the Institute.</li> <li>• Very few LCD projectors are available for classroom teaching.</li> </ul>
<b>2.4.5 Other Facilities :</b>	<ul style="list-style-type: none"> <li>• Hostel facility for the Institution along with its sister Institution is limited to 500 boys and 150 girls, and rooms are relatively small to accommodate three / more than three students.</li> <li>• Canteen facility is available but crowded.</li> <li>• Limited medical facility is available to students at the health center.</li> </ul>
<b>2.4.6 Best Practices in the Development of Infrastructure and Learning Resources :</b>	<ul style="list-style-type: none"> <li>• Adequate power back-up facility has been provided and the Institute's ambience is clean and hygienic.</li> </ul>



<b>2.5 Student Support and Progression :</b>	
<b>2.5.1 Student Progression :</b>	<ul style="list-style-type: none"> <li>• Good performance of students is seen at University examinations and drop-out rate is low.</li> <li>• Institute admits students from all the sections of society as per the reservation norms of the University.</li> </ul>
<b>2.5.2 Students Support :</b>	<ul style="list-style-type: none"> <li>• Institute does not offer any financial support to needy, poor students, however, a few students get some support through Institute's alumni.</li> <li>• Developing entrepreneurship skills among students should be initiated.</li> <li>• Placement facilities are good with adequate counseling services.</li> </ul>
<b>2.5.3 Students' Activities :</b>	<ul style="list-style-type: none"> <li>• Students are encouraged to participate in various sports competitions and extra curricular activities.</li> <li>• Alumni association exists and meetings are held annually.</li> <li>• Alumni contribute to placement activities and provide some financial support to a few needy meritorious students.</li> <li>• A formal mechanism to use the feedback from industry and alumni in development of the Institution be established.</li> </ul>
<b>2.5.4 Best Practices in Student Support and Progression :</b>	<ul style="list-style-type: none"> <li>• Well established placement cell with required infrastructure is in place.</li> </ul>
<b>2.6 Governance and Leadership :</b>	
<b>2.6.1 Institutional Vision and Leadership :</b>	<ul style="list-style-type: none"> <li>• Well defined vision and mission statements are in place.</li> <li>• The Institution is effective in resource mobilization.</li> </ul>
<b>2.6.2 Organizational Arrangements :</b>	<ul style="list-style-type: none"> <li>• Organizational hierarchy of the Institution is as per standard norms.</li> <li>• Decentralization in administration is desirable.</li> </ul>
<b>2.6.3 Strategy Development and Deployment :</b>	<ul style="list-style-type: none"> <li>• Committees are constituted for effective management.</li> <li>• Integrated management information systems for academic and administrative aspects needs to be established.</li> </ul>



<b>2.6.4 Human Resource Management :</b>	<ul style="list-style-type: none"> <li>• Recruitment of better and effective faculty is desirable.</li> <li>• Welfare measures for staff and faculty need improvement.</li> <li>• Performance based incentives to faculty members are needed.</li> </ul>
<b>2.6.5 Financial Management and Resource Mobilization :</b>	<ul style="list-style-type: none"> <li>• Adequate operational budget exists for the Institution.</li> <li>• Departments are not effective in utilizing the allocated budget.</li> <li>• Computerized audited accounts are properly maintained.</li> </ul>
<b>2.6.6 Best Practices :</b>	<ul style="list-style-type: none"> <li>• Motivated faculty members are present at senior level.</li> </ul>
<b>2.7 Innovative Practices :</b>	
<b>2.7.1 Internal Quality Assurance Systems :</b>	<ul style="list-style-type: none"> <li>• The Institution is certified as ISO 9001 : 2000 Institution.</li> <li>• IQAC cell does not exist.</li> </ul>
<b>2.7.2 Inclusive Practices :</b>	<ul style="list-style-type: none"> <li>• Government's reservation policy is adopted during admissions.</li> <li>• Gender balance among students and staff exists.</li> </ul>
<b>2.7.3 Stakeholder Relationship :</b>	<ul style="list-style-type: none"> <li>• Overall climate is conducive to learning.</li> <li>• Alumni contribution towards development of CBIT could be better.</li> <li>• Stake holders' satisfaction for academic performance, campus environment, discipline and safety of the students is noticeable.</li> </ul>
<p style="text-align: center;"><b>Section III : OVERALL ANALYSIS</b></p>	
<b>3.1 Institutional Strengths :</b>	<ul style="list-style-type: none"> <li>• Institution offers wide range of professional UG, PG programs.</li> <li>• The management is actively pursuing vision and mission statements for effective implementation of academic programs.</li> <li>• Institution has adequate and well maintained infrastructure facilities for conduct of different academic programs.</li> <li>• Good performance of students in University examinations.</li> <li>• Good placement of students.</li> <li>• Institution has good public image</li> </ul>





<b>3.2 Institutional Weaknesses :</b>	<ul style="list-style-type: none"> <li>• Lack of sufficient Ph. D qualified faculty members,</li> <li>• Decentralization and delegation of powers is inadequate.</li> <li>• No earmarked budget is provided for R &amp; D activities.</li> <li>• Budget provision for library is limited.</li> <li>• More research centers need to be established.</li> <li>• Inadequate hostel facility for boys and girls.</li> <li>• Inadequate collaborative programs.</li> <li>• Outsourcing of girl's hostel.</li> </ul>
<b>3.3 Institutional Challenges :</b>	<ul style="list-style-type: none"> <li>• Attraction and retention of quality faculty members.</li> <li>• Improvement of faculty in use of modern gadgets in teaching and learning.</li> <li>• Modernization of laboratories with latest equipment.</li> <li>• Placement of students in core areas.</li> <li>• Generating globally competent and skilled manpower at par with leading professional Institutions of the country.</li> <li>• To circumvent limitations of Osmania University in curriculum development through intensive value addition schemes.</li> <li>• To establish research culture and promotion of consulting activities.</li> </ul>
<b>3.3 Institutional Opportunities :</b>	<ul style="list-style-type: none"> <li>• Increased collaborations with industries and other organizations.</li> <li>• Effective utilization of public goodwill to mobilize resources.</li> <li>• Scope for the professional management approaches in academic matters.</li> <li>• Need for establishment of need based courses.</li> </ul>
<b>Section IV : RECOMMENDATIONS FOR QUALITY ENHANCEMENT OF THE INSTITUTION</b>	
<ol style="list-style-type: none"> <li>1. Publications in International journals should be encouraged with appropriate incentives.</li> <li>2. Library should be augmented with more books and International journals.</li> <li>3. Provision of 100 % hostel accommodation and faculty residences should be taken up to become a complete residential Institution.</li> <li>4. R &amp; D and consulting activities need to be increased significantly.</li> <li>5. Inter-departmental linkages in teaching and research should be encouraged.</li> <li>6. Existence of vast alumni should be utilized effectively.</li> </ol>	



7. Inbreeding in faculty recruitment to be avoided and senior faculty members appointed on "ad hoc" basis be avoided.
8. Decentralization and transparency in administration should be taken up.
9. Deputation of faculty to National / International conferences with full financial support be introduced.
10. Facilities for extra-curricular activities of the students need to be augmented.

*I agree with the observations of the Peer Team as mentioned in this report.*



*[Handwritten Signature]*  
10/2/10  
Signature and Seal of  
the Head of the Institution

**PRINCIPAL**  
Bharathi Institute of Technology  
GANDIPET, HYDERABAD-500 078

*Signatures of the Peer Team Members:*

Name and Designation		Signature with Date
Prof. A. Sridharan (Chairperson) (Former Deputy Director & Advisor I.I.Sc, Bangalore) Res. # 40, Sathagiri, West Park Road, Between 13 <sup>th</sup> – 14 <sup>th</sup> Cross, Malleswaram, Bangalore - 560003, Karnataka.	Chairperson	<i>[Handwritten Signature]</i> 10/03/2010
Prof. B. V. Babu Dean, Educational Hardware Division, Professor in Chemical Engineering Birla Institute of Technology and Science Pilani 333 031, Rajasthan.	Member Coordinator	<i>[Handwritten Signature]</i> 10/03/2010
Prof. S. D. Bhide (member) Former Principal, Cummins College of Engineering for Women, Pune 411 052.	Member	<i>[Handwritten Signature]</i> 10-3-2010
Dr. Jagannath Patil Deputy Advisor, NAAC, Bangalore, 560 072.	NAAC Coordinating Officer	

Place: Hyderabad  
Date: 10 March 2010.