



Chaitanya Bharathi Institute of Technology

Research and Development Centre

Research and Entrepreneurship Hub

List of Consultancy Projects

(Since inception of college)

S. No	Name of the Principal Investigator (PI) / Co Investigator	Department	Name of the Project	Name of Funding Agency	Term of the Project	Sanctioned Amount (Rs.)
1.	Dr.N V Koteswara Rao (PI) and Dr. Jeet Ghosh (Co-PI)	ECE	Design and Development of Multi Input Multi frequency Antenna for Missile Applications	CARS, DRDL DRDL/23CR0004/APS/APS/DOMR	One Year 2023-24	9,79,999
2.	Dr Mallaiah Mekala	Chemical	To carryout experimental investigation with respect to scale studies for synthesis of valproic acid in packed bed reactive distillation column	Sun Pharmaceutical Industries Ltd., Haryana, India. PO. No.: 5000237689, Dated: 11 Nov 2022	1 Year 2023-24	17,19,024
3.	Dr. Y Rajasri	Biotech	A device to absorb Carbon Dioxide from the atmosphere	Neonflake Enterprises (OPC) Pvt Ltd	7 Months Sept 2022 to March 2023	75,000
4.	Dr. N Janardhan	Mech	Thermo Structural Stability Analysis of RCC Structures	CARS, DRDO (Consultancy)	2 Years 2022-23	9,89,500
5.	Dr. Thanikanti Sudhakar Babu	EEE	Enhancement of the performance of different renewable energy sources using modern techniques	Kingdom of Saudi Arabia, Ministry of Education, Najran University	2 Years 2021-2023	21,00,000
6.	Dr. N.R.Dakshina Murthy	Civil	Prof checking of Retaining wall design of Dammanapet LI Scheme on Right bank of Godavari river in Dharmapur mandal, Jagityal Dist.	VPR Consultancy	2020-2021	89,600
7.	Dr P Ravinder Reddy Dr G Laxmaiah	Mechanical	FE Analysis of EFGC 16	J K Fenner(India) Ltd, Hyderabad	2020-21	47,200
8.	Dr. G. Chandra Mohan Reddy and Dr. P.V.R. Ravindra Reddy	Mechanical	Optimization of Process parameters for Additive Manufacturing of Defence Components	CARS, DRDO (Consultancy)	18 Months 2019-21	9.95,000.

9.	Dr. Ravinder Reddy	CSE	Translating the NPTEL content to regional Language	MHRD	2019	1,00,000
10.	Sri. P. Sreenivas Sarma	Civil	Project Management Consultancy Services for the Cotton Mill Structure of Salasar Balaji Textiles at Gollapally near Jadcherla, Mahaboob nagar Dist. 2,25,000/- plus taxes applicable	Services	2018-2019	1,06,400
11.	Sri. P. Sreenivas Sarma	Civil	Structural Design and drawing for the proposed Skandhanshi Trade Centre (Double Cellar +5Floors Commercial Complex), @Rs.2.00/Sq.ft of the total plus taxes applicable.	Skandhanshi Trade Center	2018-2019	2,30,097
12.	Dr.K.Subba Rao and Dr. N. V. Koteswara Rao	ECE	Improvement of Performance of RLG with Wavelet and S-Transform Algorithms	RCI-CARS, DRDO, Hyderabad	2 Years 2016-18	9,75,000
13.	Dr.A.D. Sarma Dr. D Krishna Reddy and Sri .P. Sathish	ECE	Performance Evaluation of IRNSS in the Context of user Position and Velocity	RCI-CARS, DRDO, Hyderabad	2 Years 9 Months 2015-17	15,00,000
14.	Dr.K.Subba Rao Dr. N. V. Koteswara Rao Sri E. Chandrasekhar	ECE	Design and Development of DSP Processor Based Signal Processing Unit for Ring Laser Gyro	RCI-CARS, DRDO, Hyderabad	2 Years 2013-15	7,85,000
15.	Dr P Ravinder Reddy Dr G Laxmaiah	Mechanical	Static and Fatigue Analysis of Pulleys	J K Fenner (India) Ltd, Hyderabad	2013-14	22,023
16.	Dr. G. Chandra Mohan Reddy Dr. P.V.R. Ravindra Reddy	Mechanical	Simulation Studies on the Explosively Formed Projectiles	Programme AD, DRDO, Hyderabad	2009-2011	9,70,000
17.	Dr. N. V. Koteswara Rao	ECE	IE 3D software Usage for Microstrip Antenna Simulation	GE India Business Center, Hyderabad	0.5 Years 2004	25,000



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(Since Inception of College)

S. No	Name of the Principal Investigator (PI) / Co Investigator	Department	Name of the Project	Name of Funding Agency	Term of the Project	Sanctioned Amount (Rs.)
1.	Dr. S. Shanmukharao Samatham (PI), Physics & Dr. M. Chandra Sekhar (Co-PI), Physics	Physics	Tailoring magneto-transport phenomena in magnetic skyrmion materials: $Mn_{1-x}Cr_xSi$ and $MnSi_{1-x}Sn_x$	UGC-DAE CSR, Indore CRS/2022-23/01/712	3 Years	9 Lakh* (Approx.)
2.	Dr. Santhosh Kumar A (PI), Physics & Dr. S. Shanmukharao Samatham (Co-PI) Physics	Physics	Exploring doped-MnNiGe ribbons for magnetocaloric, magnetoresistance and EMI shielding applications	UGC-DAE CSR, Indore CRS/2022-23/01/717	3 Years	1.35 Lakh* (Approx.)
3.	Dr. Gubbala V. Ramesh (PI), & Ch Gupta Chandaluri, Assistant Professor, Chemistry, Indian Institute of Petroleum & Energy, Visakhapatnam-530003 Andhra Pradesh, India.	Chemistry	Alkali metal-doped $g-C_3N_4$ decorated with plasmonic nanostructures: A SERS based flexible sensor to detect pesticides in ppb level	CRS/2022-2023/1010	3 Years	1.35 Lakhs* (Approx.)
4.	Dr. S. Shanmukharao Samatham (PI), Physics & Dr. A. Santhosh Kumar Physics (Co-PI)	Physics	Exploring spin caloritronic materials for waste heat management, magnetic refrigeration and EMI shielding applications	SERB-CRG File Number: CRG/2022/007993	3 Years	45* Lakhs* (Approx.)
5.	Dr. P Ravinder Reddy (Principal), Dr. Subramaniam and Dr. S. China Ramu	CSE	Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions (FIST) Program – 2022	DST SR/FST/COLLEGE /2022/1239, Dated: 19 December 2022	5 Years	57,00,000/- Amount would be shared 75 (DST) : 25 (CBIT)
6.	Dr. K. Prasad Babu and Dr. M. Mallaiah	Chemical	Production of biodiesel from waste cooking oil in presence of liquid and solid	Indian Institute of Chemical Engineers	1 Year	10,000

			catalysts	Ref. No.: AG/R&D/2022/557 Dated: 24 th November 2022		
7.	Dr. M Balasubbareddy and Dr. T Sudhakar Babu	EEE	IoT-based Smart Power Quality Analyzer	International Collaborative Research Fund – University Malaysia Perlis and CBIT	2 Years 2022-2024	7,08,488
8.	Dr. D Krishna Reddy and Dr. A D Sarma	ECE	Analysis and Mitigation of Doppler Collision events using ML algorithms for NavIC System	AICTE-RPS	3 Years 2022-2025	19,61,333
9.	Dr. A D Sarma, Dr. D L Sreenivasa Reddy and Dr. D Krishana Reddy	ECE	A New Model for Short Term Forecasting of Scintillations using Machine Learning Approach and Generation of Regional Scintillation Maps	SERB-CRG	3 Years 2022-2025	37.04,360
10.	Dr. M Bhanu Chandra	ECE	Development of Nanofoam based Plasmonic structures towards Photo-Electro Chemical Water-Splitting and CO 2 reduction	SERB-CRG	1.5 Years 2022-2023	10,39,562
11.	Dr. S Shanmukharao Samatham	Physics	Exploring Magnetic, Magnetocaloric and Magnetoresistive properties of Ti (Fe _{1-x} Co _x) ₂ (0 ≤ x ≤ 1)	SERB-TARE	3 Years 2019-2022	2,91,521
12.	Head of the Department and Dr. S. Narasimha Kumar	Mechanical	Development of Ceramic Coated Diesel Engine Fuelled with CNG and Biodiesel Blended	AICTE-MODROB	2 Years 2020-22	9,94,725
13.	Dr. Y Rama Devi	CSE	Development of a Wireless Peer-to-peer Network base for Managing IoT Edge Devices off Gateway Range	AICTE-RPS	3 Years 2020-23	4,39,561
14.	Head of the Department and Dr.N.R.Dakshina Murthy	Civil	Non-destructive Testing Equipment for Strucural health monitoring of Reinforced concrete structures.	AICTE-MODROB	2 Years 2019-21	11,00,000
15.	Dr. M Balasubba Reddy	EEE	An Efficient Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues	AICTE-RPS	2019-22	11,00,000
16.	Head of the Department	EEE	Special Electrical Machines Lab	AICTE-MODROB	2 Years 2018-20	17,36,000
17.	Dr G. Vijaya Laxmi	Bio-Tech	Studies on enhancement of the secondary metabolites in invitro through hairy roots and immobilized cell suspensions in medicinally important plant <i>Achyranthes aspera</i>	UGC	2018-20	1,40,000
18.	Dr. P. Ravinder Reddy	Mechanical	Experimental and Numerical Investigations Friction Stir Welding of Aluminium and Magnesium Alloys	UGC	2018-2020	2,70,000

19.	Dr.P. Ravinder Reddy	Mechanical	Design and development of components of artificial heart	Collaboration with US (In-House)	2017-2021	50,00,000.
20.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao and Dr. K. Suman	ECE	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	2017-2020 3 Years	19,37,000
21.	Dr. K. Radhika	IT	Big-data Analytics Lab	AICTE-MODROB	2017-18 1 Year	60,000
22.	Dr.B Indira	MCA	A Study on the effective use of ICT for education and learning purpose in various schools and colleges of Hyderabad and Secunderabad	MRP, UGC	2017 - 2019	2,13,500
23.	Dr. B. Linga Reddy, Dr. B. Sreenivasa Reddy and Dr. K. Vinay Kumar Reddy	Physics	Studies on the environmental radiation levels in the dwellings constructed under the double bed room housing schme at Erravalli and Narsannapet model villages of Telangana	TSCOST	2017-2018 12 months	5,00,000
24.	Dr. R. Ravinder Reddy	CSE	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	2016-18 2 Years	1,65,000/-
25.	Dr. A. D. Sarma, Dr. N. V. Koteswara Rao and Dr. N. Alivelu Manga	ECE	A Local Short Term Model for Forecasting Ionospheric Scintillations for GNSS Applications over Indian Region	ISRO-RESPOND, Bangalore	2016-2019 3 Years	17,66,000
26.	Dr. G. Suresh Babu and Dr. T. Murali Krishna	EEE	Design and Development of Grid Tied Inverter for Renewable Source Applications	The Institution of Engineers ((India)	2016-2017 1 Year	55,000
27.	Dr. N. V. Koteswara Rao and Dr. A D Sarma	ECE	Multifunction Frequency and Time-Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and Navigation Components and Systems	AICTE-MODROB, New Delhi	2015-16 1 Year	20,00,000
28.	Dr. R. Sreedhar Rao and Dr. P. V. Naga Prapurna	Chemical	MODROBS of Computer Application in Process Industries Lab	AICTE-MODROB	2015-16	19,16,000
29.	Dr. K. Jagannadha Rao	Civil	Strength and durability studies on high strength recycled aggregate concrete	UGC	2015-2017	3,55,000
30.	Mrs. L. Ramayee Dr. P. Ravinder Reddy	Mechanical	Implementation of Composite Materials Wind Blades in Wind Mill	DST	2015-2018	27,79,000

31.	N.Rama Devi and B.Sateesh	CSE	Information & Cyber Security Education - A Cloud Based Approach	UGC	2014-16 2 Years	2,60,000/-
32.	Dr. P N Sastry and Dr. N. V. Koteswara Rao	ECE	Design and Development of Palm Leaf Character Recognition System	AICTE-RPS, New Delhi	2013-16 3 Years	7,31,000
33.	Dr. N. V. Koteswara Rao	ECE	Reconfigurable Microstrip Antennas for Cognitive radio and Mobile communications	CBIT, Hyderabad	2013-14 1 Year	40,000
34.	Dr.P. V Prasad	EEE	MODROBS- Power Systems Lab	AICTE-MODROB	2013-2014 1 Year	12,25,000
35.	Dr. R Sreedhar Rao and I Bala Krishna	Chemical	MODROBS of Chemical Reaction Engineering Laboratory	AICTE-MODROB	2013-14	1,50,000
36.	Dr. R Sreedhar Rao and Dr. M Kalyani	Chemical	MODROBS of Process Dynamics and Control Laboratory	AICTE-MODROB	2012-13 (1 year)	8,80,000
37.	Dr. D. Krishna Reddy and Dr. A D Sarma	ECE	Data Processing Techniques to Improve Real-time Performance of GNSS Systems	DST-SERB, New Delhi	2 Years 2012-14	9,40,400
38.	Dr. P. Ravinder Reddy	Mechanical	Mechanical & Fracture Properties of Bio Composite Reinforced with Chicken Feathers	AICTE (RPS)	2012-2015	18,05,000
39.	Dr. P. Ravinder Reddy	Mechanical	Modernization of Thermal Engineering Lab AICTE (MODROBS)	AICTE (MODROBS)	2012-2013	8,75,000
40.	Dr. P. Ravinder Reddy	Mechanical	Analysis of Two Versions of Composite NDE and DE Flanges	Naval Science & Technological Laboratory, Visakhapatnam	2011-2012	3,50,000
41.	Dr. P. Ravinder Reddy	Mechanical	FEA Based Modelling of Magneto Geological Damper to Control Vibrations During Machining	IEI R & D Cell, Kolkata, West Bengal	2010-2012	1,50,000
42.	Dr. P. Ravinder Reddy	Mechanical	Design of Composite Propeller For Estimating Cavitation Performance and Strength Using CFD&FEM Analysis	Naval Science & Technological, Laboratory, Visakhapatnam	2010-2011	5,55,000

43.	Dr. P. Ravinder Reddy	Mechanical	Design and Development of Composite (FRP) Blower For Low Noise By using FEM & CFD Analysis	Naval Science & Technological, Laboratory, Visakhapatnam	2009-2011	8,99,000
44.	Dr. K Krishnaveni	EEE	MODROBS- Power Electronics Lab	AICTE-MODROB	2008-09 (1 Year)	3,80,000
45.	Dr. P. Ravinder Reddy	Mechanical	Design of Composite Propeller For Estimating Cavitation Performance and Strength Using CFD&FEM Analysis	Naval Science & Technological Laboratory Visakhapatnam	2008-2010	9,77,000
46.	Dr. P. Ravinder Reddy	Mechanical	Industry Institute Partnership Cell (IIPC)	AICTE	2007-2012	10,00,000
47.	Dr. CRK Reddy Dr. P. Ravinder Reddy	Mechanical	Integration of Textured Segments and Optical Character Recognition for Multimedia Data Bases	AICTE (TAPTEC)	2006-2009	8,00,000
48.	Dr. P. Jayapal Reddy	Mechanical	Entrepreneurship Development Cell (EDC)	AICTE	2006-2009	7,00,000
49.	Dr.T.Raghunatha Reddy and Sri P.Sreenivas Sarma	Mechanical	Design and Development of Composite (FRP) Blower For Low Noise By using FEM & CFD Analysis	Robo sand pvt.Lltd. & Janapriya engineers syndicate	2004 1 Year	15,000
50.	Dr. N. V. Koteswara Rao	ECE	Analysis of Printed slots and slot Coupled Radiators using MOM	AICTE-RPS, New Delhi	2004-07 3 Years	3,50,000
51.	Dr. P. Ravinder Reddy	Mechanical	Modernization of CAD/CAM Lab	AICTE (MODROBS)	2003-2005	12,00,000
52.	Dr. P. Ravinder Reddy	Mechanical	Tool Wear and Orthogonal Cutting of Carbon Composites	UGC (Minor Research)	2001-2004	13,00,000
53.	Dr P. Ravinder Reddy	Mechanical	Development of Test Rig for Calibration of Over speed Governor for Air Turbine.	BHEL (Ramachandrapuram)	2001-2003	4,53,000
54.	Dr. G. Chandra Mohan Reddy	Mechanical	Study of Formability and Process Parameters of New Materials in Metal Forming Operations	AICTE (TAPTEC)	1999-2001	7,00,000

55.	Dr. B. Chennakesava Rao	Mechanical	Machinability of Cast and Powder Formed Al Silicon Carbide Particulates	AICTE (TAPTEC)	1999-2001	6,00,000
56.	Dr. P. Ravinder Reddy	Mechanical	Fracture Based Design of Ceramic Composites and Fibre Geometric Modeling	AICTE (R & D)	1998-2002	3,00,000
57.	Dr . C. Srikanth Reddy	Library	Modernization and Networking Library & Information Centre	AICTE-MODROBS	1997-1999	5,00,000
58.	Dr. C.M Vara Prasad	Mechanical	Studies on Fuel Distribution in Concentric Swirling Flows for Low Grade Fuel application of Gas Turbine Combustion	UGC (Major Research)	1996- 1999	4,80,000
59.	Dr. M.V.S. Murali Krishna Dr. C.M. Varaprasad	Mechanical	Studies on Methanol in Air Gap Insulated Piston Engine	AICTE (TAPTEC)	1995-1998	7,70,000

* Project approved conformation through email but sanction order is yet to be released.