



Chaitanya Bharathi Institute of Technology

Research and Development Centre

Research and Entrepreneurship Hub

List of Consultancy Projects

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. K Ramakrishna	IT	To Provide Hands on Technical Training to Students on IoT, Robotics and Cyber Security	ExcelR Edtech Pvt. Ltd., Bangalore	4-15 Sept. 2023 (10 Days)	1,41,600
2.	Dr. A Rajanikanth and Mr. K Gangadhara Rao	IT	Data Analytics and Machine Learning	Coincent.ai (a sister company of Movidu technology Pvt. Ltd)	1 Year 2023-24	2 Lakhs
3.	Dr. Kiran Kumar Amireddy	Mechanical	Image Analysis and Website Development	BNK Products and Services Private Limited, Hyderabad	2023-24 One Year	1,00,000
4.	Prof. N Rama Devi and Dr. N Janardhan	CSE (IoT) & Mech	Development of Image Matching Techniques for Camouflaging of Various Terrains/Assets of Sites	CARS, ASL, DRDO (Consultancy)	2023-24	9,50,000
5.	Dr. P. Ravinder Reddy, Mohd Ziauddin Jahangir and G. Mallikharjuna Rao	Mechanical & ECE	Study of Static Flow Measurement Technology	SKYLARK SMARTMETRES PVT LTD	6 Months 2023-24	4,38,656 1,80,000/- (Mech) + 2,58,656/- (ECE)
6.	Dr. N V Koteswara Rao and Dr. Jeet Ghosh and Dr. D Srikar	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
7.	Dr Mallaiah Mekala	Chemical	Scale up studies in a packed bed reactive distillation	Sun Pharmaceutical Industries Ltd., Haryana, India. PO. No.: 5000237689, Dated: 11 Nov 2022	1 Year 2023-24	17,19,024
8.	Dr G Laxmaiah and Dr Kiran Kumar Amireddy	Mechanical	Modeling and Analysis of 42U Type CKD Rack	BRAVLD Engineering Private Limited, Hyderabad	2022-2023	18,880
9.	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
10.	Dr. N Janardhan	Mech	Thermo Structural Stability Analysis of RCC Structures	CARS, DRDO (Consultancy)	2 Years 2022-23	9,89,500

11.	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
12.	Sri. A. Balaji Rao	Civil	Design Of Culvert	M/s. Bridge Consultancy	2021-22	42,000
13.	Dr. Jagannadha Rao Sri. A. Balaji Rao	Civil	Proof Checking Of Structural Design And Drawing S Of EGSB Reactor For Wastewater Treatment	M/s. Kaashyapa Envergy Infrastructures Pvt. Ltd.	2021-22	45,000
14.	"Dr. Jagannadha Rao Prof. S. S. V. Challam, G. Vishwanath, M. Kalyan, Smt. N. Lalitha Kumari "	Civil	Field Survey	GHMC	2021-22	1,02,000
15.	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
16.	Dr A Vimala, Dr Nr Dakshina Murthy and Sri K V Vivek	Civil	Cement Cubes Testing	M/S Anuhar Homes Pvt Ltd	2020-21	99,000
17.	Dr P Ravinder Reddy Dr G Laxmaiah	Mechanical	FE Analysis of EFGC 16	J K Fenner(India) Ltd, Hyderabad	2020-21	47,200
18.	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.
19.	Dr. Ravinder Reddy	CSE	Translating the NPTEL content to regional Language	MHRD	2019	1,00,000
20.	Dr. N R D Murthy	Civil	Cubes Testing	M/s. Ananda Home Developers	2019-20	93,000
21.	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
22.	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
23.	Sri. A Balaji Rao, Dr. N R Dakshina Murthy	Civil	Structural Stability Carry out investigations on the fire effected shed of HPCL	HPCL	2018-19	69,000

24.	Dr. N R Dakshina Murthy	Civil	Cubes testing	Hayagreeva Infra Pvt Ltd	2018-19	45,000
25.	Dr P Rama Raju, M Samba Siva Rao	Civil	Design of R2 reservoir at RGIA, Shamshabad, Hyderabad	GMR Hyderabad International Airport Limited (GHIAL)	2017-18	1,35,000
26.	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
27.	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
28.	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
29.	Dr P Ravinder Reddy Dr G Laxmaiah	Mechanical	Static and Fatigue Analysis of Pulleys	J K Fenner (India) Ltd, Hyderabad	2013-14	22,023
30.	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
31.	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

A D Sarma

Prof. A D Sarma
Advisor, R&D



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List of Sponsored Projects

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.	PI (s): Dr M Balasubbareddy, and Dr. Md Omar Faruque, Electrical and Computer Engineering FLORIDA STATE UNIVERSITY, USA Co-PI(s): Dr P V Prasad and Prof. Sastry Pamidi, Electrical and Computer Engineering FLORIDA STATE UNIVERSITY, USA	EEE	Design and Development of IoT based Cooperative Isolated Renewable Energy Systems (IRES) using multi objective optimization for enhancing Reliability of power in Rural India	Scheme for Promotion of Academic and Research Collaboration (SPARC)	2 Years	47,94,775
2.	PI (s): Prof. P Chandra Sekhar (OU) Mohd Ziauddin Jahangir (CBIT) Co-PI(s): Mohammad Misbahuddin (OU), Dr.D Krishna Reddy (CBIT)	ECE, OU and ECE, CBIT	The Design, Fabrication and Development of Silicon Proven IP Core for High Resolution ADPLL	Ministry of Electronics & Information Technology (MeitY)-C2S Programme	5 Years	191.50 Lakhs (OU: 95.59 Lakhs & CBIT:95.91 Lakhs)
3.	Dr.Vinodh Kumar Minchula and Dr.A Supraja Reddy	ECE	Machine Learning based Intelligent Indian vehicle network with Relay assisted mmWave BS system for 5G NR-V2X communications	SERB-SURE	3 Years	16,17,990
4.	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	16 Lakhs
5.	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	1,35,000
6.	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 ₃ N ₄ decorated with plasmonic nanostructures: A SERS based flexible sensor to detect pesticides in ppb level	CRS/2022-2023/1010	3 Years	1,35,000

7.	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	44,47,696
8.	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)
9.	Dr. K. Prasad Babu and Dr. M. Mallaiah	Chemical	Production of biodiesel from waste cooking oil in presence of liquid and solid catalysts	Indian Institute of Chemical Engineers Ref. No.: AG/R&D/2022/557 Dated: 24 th November 2022	1 Year	10,000
10.	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
11.	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
12.	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
13.	Dr. M Bhanu Chandra	ECE	Development of Nanofoam based Plasmonic structures towards Photo-Electro Chemical Water-Splitting and CO ₂ reduction	SERB-CRG	2.5 Years 2022-2024	15,39,562
14.	Dr. S Shanmukharao Samatham	Physics	Exploring Magnetic, Magnetocaloric and Magnetoresistive properties of Ti (Fe _{1-x} Cox) ₂ (0 ≤ x ≤ 1)	SERB-TARE	3 Years 2019-2022	2,91,521
15.	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
16.	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
17.	Head of the Department and Dr.N.R.Dakshina Murthy	Civil	Non-destructive Testing Equipment for Structural health monitoring of Reinforced concrete structures.	AICTE-MODROB	2 Years 2019-21	11,00,000
18.	Dr. M Balasubba Reddy	EEE	An Efficient Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues	AICTE-RPS	2019-22	11,00,000

19.	Head of the Department	EEE	Special Electrical Machines Lab	AICTE-MODROB	2 Years 2018-20	17,36,000
20.	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
21.	Dr. P. Ravinder Reddy	Mechanical	Experimental and Numerical Investigations Friction Stir Welding of Aluminium and Magnesium Alloys	UGC	2018-2020	2,70,000
22.	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
23.	Dr. K. Radhika	IT	Big-data Analytics Lab	AICTE-MODROB	2017-18 1 Year	60,000
24.	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
25.	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
26.	Dr. R. Ravinder Reddy	CSE	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	2016-18 2 Years	1,65,000/-
27.	Dr. A. D. Sarma, Dr. N. V. Koteswara Rao and Dr. N. Aivelu 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
28.	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
29.	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
30.	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

31.	Dr. K. Jagannadha Rao	Civil	Strength and durability studies on high strength recycled aggregate concrete	UGC	2015-2017	3,55,000
32.	Mrs. L. Ramayee Dr. P. Ravinder Reddy	Mechanical	Implementation of Composite Materials Wind Blades in Wind Mill	DST	2015-2018	27,79,000
33.	N.Rama Devi and B.Sateesh	CSE	Information & Cyber Security Education - A Cloud Based Approach	UGC	2014-16 2 Years	2,60,000/-
34.	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
35.	Dr.P. V Prasad	EEE	MODROBS- Power Systems Lab	AICTE-MODROB	2013-2014 1 Year	12,25,000
36.	Dr. R Sreedhar Rao and I Bala Krishna	Chemical	MODROBS of Chemical Reaction Engineering Laboratory	AICTE-MODROB	2013-14	1,50,000
37.	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
38.	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
39.	Dr. P. Ravinder Reddy	Mechanical	Mechanical & Fracture Properties of Bio Composite Reinforced with Chicken Feathers	AICTE (RPS)	2012-2015	18,05,000
40.	Dr. P. Ravinder Reddy	Mechanical	Modernization of Thermal Engineering Lab AICTE (MODROBS)	AICTE (MODROBS)	2012-2013	8,75,000
41.	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
42.	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
43.	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

44.	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
45.	Dr. K Krishnaveni	EEE	MODROBS- Power Electronics Lab	AICTE-MODROB	2008-09 (1 Year)	3,80,000
46.	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
47.	Dr. P. Ravinder Reddy	Mechanical	Industry Institute Partnership Cell (IIPC)	AICTE	2007-2012	10,00,000
48.	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
49.	Dr. P. Jayapal Reddy	Mechanical	Entrepreneurship Development Cell (EDC)	AICTE	2006-2009	7,00,000
50.	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.Ltd. & Janapriya engineers syndicate	2004 1 Year	15,000
51.	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
52.	Dr. P. Ravinder Reddy	Mechanical	Modernization of CAD/CAM Lab	AICTE (MODROBS)	2003-2005	12,00,000
53.	Dr. P. Ravinder Reddy	Mechanical	Tool Wear and Orthogonal Cutting of Carbon Composites	UGC (Minor Research)	2001-2004	13,00,000
54.	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
55.	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
56.	Dr. B. Chennakesava Rao	Mechanical	Machinability of Cast and Powder Formed Al Silicon Carbide Particulates	AICTE (TAPTEC)	1999-2001	6,00,000

57.	Dr. P. Ravinder Reddy	Mechanical	Fracture Based Design of Ceramic Composites and Fibre Geometric Modeling	AICTE (R & D)	1998-2002	3,00,000
58.	Dr . C. Srikanth Reddy	Library	Modernization and Networking Library & Information Centre	AICTE-MODROBS	1997-1999	5,00,000
59.	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
60.	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

AD Sarma

Prof. A D Sarma
Advisor, R&D