



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(Autonomous)

Kokapet (Village), Gandipet, Hyderabad, Telangana – 500075 www.cbit.ac.in

Criteria	<b>III: Research, Innovations and Extension</b>
Key Indicator – 3.2	<b>Resource Mobilization for Research</b>

## DVV: METRICS LEVEL DEVIATIONS

3.2.4	<p><b>Average percentage of departments having Research projects funded by government and non-government agencies during the last five years</b></p> <p>3.2.4.1. <b>Number of departments having Research projects funded by government and non-government agencies during the last five years</b></p> <p>HEI Input:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td><b>INR in Lakhs</b></td> <td>10</td> <td>10</td> <td>9</td> <td>9</td> <td>9</td> </tr> </tbody> </table>	Year	2021-22	2020-21	2019-20	2018-19	2017-18	<b>INR in Lakhs</b>	10	10	9	9	9	Kindly provide the department wise list of the project indicating the title of the funded project , name of the research , the amount and the funding agency during the last five year.
Year	2021-22	2020-21	2019-20	2018-19	2017-18									
<b>INR in Lakhs</b>	10	10	9	9	9									

**Department wise list of the project indicating the title of the funded project , name of the research , the amount and the funding agency during the last five year**

### **2021-22 Ongoing projects**

S. No	List of the teaches	Departments	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr. M Balasubba Reddy, Dr. P Venkata Prasad	EEE	An Efficient Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues	AICTE-RPS	11,00,000
2.	Dr. K Janganadha Rao, Sri. I. Pranav, Smt. K. Spandana	Civil ,EEE, CSE	Non-destructive Testing Equipment for Strucural health monitoring of Reinforced concrete structures.	AICTE	11,00,000
3.	Dr. PVR Ravindra Reddy, Dr. S Narasimha Kumar, Dr. Y S Kannan and Dr. M V S Murali Krishna, Sri. D Sathish, Dr. I Balakrishna	Mechanical, EEE, Chemical	Development of Ceramic Coated Diesel Engine Fuelled with CNG and Biodiesel Blended	AICTE	9,94,725
4.	Dr. Y Rama Devi and Dr. T Sridevi, Mr. S.Rakesh, Dr. N Vasantha Gowri, Dr. B Indira	CSE, IT, EEE and MCA	Development of a Wireless Peer-to-peer Network base for Managing IoT Edge Devices off Gateway Range	AICTE-RPS	4,39,561

5.	Dr. P Ravinder Reddy (Principal), Dr. Umakanta Choudhury, Dr. Y Rajasri, Dr. B Suresh Kumar, Dr. M Koti Reddy, Dr. G. Vanitha, Dr Kiran Y V, Dr Sanjeeb Kumar, Dr P. V. Naga Prapurna, Dr. P. Madhuri, Dr.A.Vani, Dr.M.Ramana Reddy, Sri. Ch. Harish, Dr.BVS Rao, Dr A.Kiran kumar, Dr GNR Prasad, Mr. M.Kalidas, Dr. E. Jalaja, Mr. V. Balaji Kesava Rao, Mr. S. Tulasiram	Biotech, Chemical, ECE, EEE, Mechanical, MCA, SMS, Civil, CSE	Establishment of Atal Community Innovation Centre (ACIC)	NITI Aayog	2,22,25,500
6.	Dr. M. Swamy Das & Dr. G Suresh Babu, Dr. G N R Prasad, Dr. M Anil Kumar	CSE, EEE, MCA, SMS	SPDP-Skill and Personality Development Programme Centre for SC/ST Students	AICTE	6,22,000
7.	Dr. A D Sarma, Dr. D L Sreenivasa Reddy Dr. D Krishana Reddy, Sri.M. Ramchander, Smt. I Srujana	ECE, IT, CSE, EEE, MCA	A New Model for Short Term Forecasting of Scintillations using Machine Learning Approach and Generation of Regional Scintillation Maps	SERB-CRG	37.04,360
8.	Dr. S Shanmukharao Samatham and Dr. C Nagendranatha Reddy	Physics, Biotech, EEE, CSE	Exploring Magnetic, Magnetocaloric and Magnetoresistive properties of Ti (Fe-xCox) <sub>2</sub>	SERB-TARE	2,91,521
9.	Dr. K Janganadha Rao and Dr.Bishwambhar Mishra, Sri M Kalidas, Dr. Daman Jeet, G Shanmukhi Rama	Civil, Biotech, MCA, SMS, CSE	Chaitanya Sanskriti Club	AICTE	1,00,000
10.	Dr. M Bhanu Chandra, Dr. K Dharmalingam, Dr.P Prabhakar Reddy, Dr. P V Naga Prapurna and Dr. Y Rajasri, Kavita Agarwal	ECE, Biotech, Mechanical, Chemical, CSE	Development of Nanofoam based Plasmonic structures towards Photo-Electro Chemical Water-Splitting and CO 2 reduction	SERB-CRG	10,39,562
11.	Dr. D Krishna Reddy. Dr. A D Sarma and Dr. M. Trupthi, Dr. P Satish, Dr. D L Srinivasa Reddy, Ms M.Decepti	ECE, IT, EEE, CSE	Analysis and Mitigation of Doppler Collision events using ML algorithms for NavIC System	AICTE-RPS	19,61,333
12.	Dr. B. Sreenivasa Reddy, Dr. B V S Rao, Dr. K Prasad Babu, Ms. K. Spandana	Physics, Mechanical, Chemical, CSE	Assessment of Naturally Occurring radio active materials (NORM) and Radon Exhalation studies in soils of Siddipet district of Telangana State.	TSCOST	-
13.	Dr. M Balasubbareddy, Dr. T Sudhakar Babu and Ms. K. Sugamy, Ms G. Kavita	EEE, IT, CSE	IoT-based Smart Power Quality Analyzer	International Collaborative Research Fund – University Malaysia Perlis and CBIT	3,50,073 (MYR 20,000)
14.	Dr. P Ravinder Reddy (Principal), Dr. B V S Rao, Dr. P Sathish, Dr. N V Phanendra Babu, Dr. V V R Sheshagiri Rao, Dr. Y Rama Devi, Dr. M Venugopalachary, Dr. T	ECE, EEE, Mechanical, CSE, IT, MCA, SMS, Biotech, Chemical, Physics	AICTE-IDEA Lab	AICTE	15,00,000

	Muralikrishna and Dr. MD Aleem Pasha, Dr. R Prasanna Raani, Dr.M.L.N.Charyulu, Smt.B. Neeraja, Dr B. Krishna Chaitanya, Mr. M.Ramchander, P.Krishna Prasad, Dr. E. Jalaja, Mr. V. Balaji Kesava Rao, Mr. S. Tulasiram, Dr V Aruna, Dr S Sumithra, Dr P. V. Naga Prapurna, Dr. P. Madhuri, Dr. S. Shanmukharao Samatham, Dr. A. Santosh Kumar				
15.	Dr. P Ravinder Reddy (Principal), Dr. K Janganadha Rao	Mechanical, Civil	Grant for Study Tour of Atal Tunnel under the AICTE Youth Undertaking Visit for Acquiring Knowledge (Yuvak) Scheme	AICTE	2,00,000
16.	Principal & IQAC Coordinator	CBIT	R & D Grant	Dr. V. Mallikarjuna Rao	1000000
Total		10: Biotech, Chemical, Civil, CSE, ECE, EEE, IT, Mechanical, MCA, SMS			

### 2020-21 Ongoing projects

S. No	List of the teaches	Departments	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr. G Suresh Babu	EEE	Special Electrical Machines Lab	AICTE	17,36,000
2.	Dr. K Janganadha Rao, Sri. I. Pranav, Smt. K. Spandana	Civil ,EEE, CSE	Non-destructive Testing Equipment for Strucural health monitoring of Reinforced concrete structures.	AICTE	11,00,000
3.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao, Dr. K. Suman, Dr. K Sagar, Dr. B Suresh Kumar, Ms. E. Swathi	ECE, CSE and EEE	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	19,37,000
4.	Dr. PVR Ravindra Reddy, Dr. S Narasimha Kumar, Dr. Y S Kannan and Dr. M V S Murali Krishna, Sri. D Sathish, Dr. I Balakrishna	Mechanical, EEE, Chemical	Development of Ceramic Coated Diesel Engine Fuelled with CNG and Biodiesel Blended	AICTE	9,94,725
5.	Dr. Y Rama Devi and Dr. T Sridevi, Mr. S.Rakesh, Dr. N Vasantha Gowri, Dr. B Indira	CSE, IT, EEE, MCA	Development of a Wireless Peer-to-peer Network base for Managing IoT Edge Devices off Gateway Range	AICTE-RPS	4,39,561
6.	Dr. P Ravinder Reddy (Principal), Dr. Umakanta Choudhury, Dr. Y Rajasri, Dr. B Suresh Kumar, Dr. M Koti Reddy, Dr.	Biotech, Chemical, ECE, EEE, Mechanical, MCA, SMS, Civil, CSE	Establishment of Atal Community Innovation Centre (ACIC)	NITI Aayog	2,22,25,500

	G. Vanitha, Dr Kiran Y V, Dr Sanjeeb Kumar, Dr P. V. Naga Prapurna, Dr. P. Madhuri, Dr.A.Vani, Dr.M.Ramana Reddy, Sri. Ch. Harish, Dr.BVS Rao, Dr A.Kiran kumar, Dr GNR Prasad, Mr. M.Kalidas, Dr. E. Jalaja, Mr. V. Balaji Kesava Rao, Mr. S. Tulasiram				
7.	Dr. M. Swamy Das & Dr. G Suresh Babu, Dr. G N R Prasad, Dr. M Anil Kumar	CSE, EEE, MCA, SMS	SPDP-Skill and Personality Development Programme Centre for SC/ST Students	AICTE	6,22,000
8.	Dr. D Krishna Reddy, Dr. K Radhika and Dr. N V Phanendra Babu & Sri. M.Tirupataiah, Sri. B. Ramana Reddy	ECE, IT, EEE, CSE	Marine Navigation and Communication	AICTE	2,46,667
9.	Dr. MD. Aleem Pasha, Sri. Ch.Harish, Dr. B Ganesh, Dr. P Yugandhar, Dr. P Mandakini, Smt. T. Suvrana Kumari	Mechanical, EEE, Chemical, Civil, SMS, CSE	Research Methodology and Statistical Data Analysis	AICTE	4,89,533
10.	Dr. S China Ramu & Dr. Syed Ahmed, Dr. M Narendra	CSE, EEE, SMS	Data Science for Bigdata Analytics in Cloud using Advanced Tools	AICTE	3,21,667
11.	Dr. N.V. Srinivasulu, Dr. G Hari Krishna, Mr. Venkata Krishm	Mechanical, EEE, CSE	ATAL FDP on Molecular Manufacturing	AICTE	93,000
12.	Mr. E Ramalakshmi, Dr. B KrishnaChaitanya, Prof. N. Ramadevi	IT, EEE, CSE	ATAL FDP on Augmented reality/virtual reality	AICTE	93,000
13.	Dr. Sangeeta Gupta & Dr. T Murali Krishna, Smt. N Lalitha Kumari	CSE, EEE, Civil	ATAL FDP on Block Chain	AICTE	93,000
14.	Dr. Raj Reddy, Dr. V Prasad and Sri Krishna Prasad, Dr. K. Sagar	Mathamatics, EEE, MCA, CSE	ATAL FDP on Quantum Computing	AICTE	93,000
Total		10: Biotech, Chemical, Civil, CSE, ECE, EEE, IT, Mechanical, MCA, SMS			

### 2019-20 Ongoing projects

S. No	List of the teaches	Departments	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr G. Vijaya Laxmi and Sri. Ch.Harish and Dr PV Prasad, Smt. K Marysudha Rani	Bio-Technology, EEE, CSE	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	1,40,000
2.	Dr. G Suresh Babu	EEE	Special Electrical Machines Lab	AICTE	17,36,000

3.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao, Dr. K. Suman, Dr. K Sagar, Dr. B Suresh Kumar, Ms. E. Swathi	ECE, CSE and EEE	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	19,37,000
4.	Dr. K Janganadha Rao, Sri. I. Pranav, Smt. K. Spandana	Civil ,EEE, CSE	Non-destructive Testing Equipment for Strucural health monitoring of Reinforced concrete structures.	AICTE	11,00,000
5.	Dr. M Balasubba Reddy, Dr. P Venkata Prasad	EEE	An Efficient Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues	AICTE-RPS	11,00,000
6.	Dr M Balasubbareddy and Ms. K. Sugmaya, Smt. K Manasa, Dr. K Sowmya	EEE, IT, Civil, SMS	STTP on Introduction to Research Methodology and Matlab programming for optimization techniques	AICTE	2,72,000
7.	Dr. R. Ravinder Reddy and Dr M. Venu Gopalachari, Smt. P. Naga Chaitanya, Sri Srinivasa Kumar	CSE, IT, EEE, MCA	PRERANA	AICTE	5,87,000
8.	Sri. A Balaji Rao and Sri Ch. Anil Bharadwaj, Mr.R Srikanth	Civil, EEE, CSE	AICTE FDP on Seismic and Wind loads on Buildings and applications of ETABS and ANSYS Fluent	AICTE	3,40,000
9.	Dr. T. Murali Krishna, Dr. Y Rama Devi	EEE, CSE	STTP on Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector	AICTE	3,00,000
<b>Total</b>		<b>09: Biotech, Civil, CSE, ECE, EEE, IT, Mechanical, MCA, SMS</b>			

### **2018-19 Ongoing projects**

S. No	List of the teaches	Departments	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr.B Indira, Dr. N Vasantha Gowri, Sri. G Viswanath, Sri Ramesh Ponnala, Dr.S Saraswathi, Dr. T S Poorna Chandrika, Smt. P. Vimala Manohara Ruth	MCA, EEE, Civil, SMS, CSE	A Study on the effective use of ICT for education and learning purpose in various schools and colleges of Hyderabad and Secunderabad	UGC	2,13,500
2.	Dr. P. Ravinder Reddy, Ms. G Mamatha	Mechanical, CSE	Experimental and Numerical Investigations Friction Stir Welding of Aluminium and Magnesium Alloys	UGC	2,70,000
3.	Dr G. Vijaya Laxmi and Sri. Ch.Harish and Dr PV Prasad, Smt. K Marysudha Rani	Bio-Technology, EEE, CSE	Studies on enhancement of the secondary metabolites in invitro through hairy roots and immobilized cell suspensions in medicinally important plant Achyranthos aspera	UGC	1,40,000
4.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao, Dr. K. Suman, Dr. K Sagar, Dr. B Suresh Kumar, Ms. E. Swathi	ECE, CSE and EEE	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	19,37,000

5.	Dr. G Suresh Babu	EEE	Special Electrical Machines Lab	AICTE	17,36,000
6.	Dr. A. D. Sarma, Dr. N V Koteswara Rao, Dr. N Alivelu Manga, Ms. T. Prathima and Sri C Srisailam	ECE, IT, EEE, CSE	A Local Short Term Model for Forecasting Ionospheric Scintillations for GNSS Applications over Indian Region	ISRO, RESPOND	5.37,000
7.	Dr. R. Ravinder Reddy, Ms. M. Trupthi & Sri. D.Harsha	CSE, IT & EEE	Artificial Intelligence based Internet of Things	AICTE-ISTE	3,00,000
8.	Dr. R. Ravinder Reddy	CSE	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	1,65,000
Total		09: Biotech, Civil, CSE, ECE, EEE, IT, Mechanical, MCA, SMS			

### 2017-18 Ongoing projects

S. No	List of the teaches	Departments	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr. K. Radhika, Sri C.Srisailam, Sri. R Srikanth	IT, EEE, CSE	Big-data Analytics Lab	AICTE	60,000
2.	Dr.B Indira, Dr. N Vasantha Gowri, Sri. G Viswanath, Sri Ramesh Ponnala, Dr.S Saraswathi, Dr. T S Poorna Chandrika, Smt. P. Vimala Manohara Ruth	MCA, EEE, Civil, SMS, CSE	A Study on the effective use of ICT for education and learning purpose in various schools and colleges of Hyderabad and Secunderabad	MRP, UGC	2,13,500
3.	Dr. P. Ravinder Reddy, Ms. G Mamatha	Mechanical, CSE	Experimental and Numerical Investigations Friction Stir Welding of Aluminium and Magnesium Alloys	UGC	2,70,000
4.	Dr G. Vijaya Laxmi and Sri. Ch.Harish and Dr PV Prasad, Smt. K Marysudha Rani	Bio-Technology, EEE, CSE	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	1,40,000
5.	Dr. A. D. Sarma, Dr. N V Koteswara Rao and Dr. N Alivelu Manga, Dr. G Suresh Babu, Dr. T Sridevi,	ECE, EEE, CSE	A Local Short Term Model for Forecasting Ionospheric Scintillations for GNSS Applications over Indian Region	ISRO, RESPOND	5.39,000
6.	Mrs. L. Ramayee, Dr. P. Ravinder Reddy, Mr.P.Hemeshwar Chary, MI. A. Mohan	Mechanical, EEE, CSE	Implementation of Composite Materials Wind Blades in Wind Mill	DST, WOS-A	27,79,000
7.	Dr. N. V. Koteswara Rao and Dr. A D Sarma, Dr. P Kowsthuba, Smt. A. Sangeetha	ECE, EEE, CSE	Multifunction Frequency and Time-Domain Signal Analyzer for Testing and Performance Evaluation of Cellular and Navigation Components and Systems	AICTE-MODROB, New Delhi	20,00,000
8.	Dr. B. Linga Reddy, Dr. B. Sreenivasa Reddy, Dr. K. Vinay Kumar Reddy, Dr. C Obula Reddy and Smt.Ch. Madhavi Sudha	Physics, Biotech, CSE	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	5,00,000

9.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao, Dr. K. Suman, Dr. K Sagar, Ms. E. Swathi	ECE, CSE and EEE	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedab ad	19,37,000
10.	Dr. R. Ravinder Reddy and Dr.B.Suresh Kumar	CSE, EEE	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	1,65,000
11.	Dr. K. Jagannadha Rao, Sri.M.Tirupataiah, Sri. B. Sateesh	Civil, EEE, CSE	Strength and durability studies on high strength recycled aggregate concrete	UGC	3,55,000
12.	Dr. K Krishnaveni, Smt.Ch.Vijay lakshmi	EEE, CSE	Power Electronics for Renewable Energy Systems-Present trends and future scope	AICTE	6.05,000
Total		09: Biotech, Civil, CSE, ECE, EEE, IT, Mechanical, MCA, SMS			