



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(Autonomous)

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

Criteria	III: Research, Innovations and Extension
Key Indicator – 3.2	Resource Mobilization for Research

DVV: METRICS LEVEL DEVIATIONS

3.2.2	<p>Percentage of teachers having research projects during the last five years</p> <p>3.2.2.1. Number of teachers having research projects during the last five years</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>INR in Lakhs</td> <td>102</td> <td>73</td> <td>29</td> <td>29</td> <td>46</td> </tr> </tbody> </table> <p>DVV suggested 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>INR in Lakhs</td> <td>102</td> <td>73</td> <td>29</td> <td>29</td> <td>46</td> </tr> </tbody> </table> <p>Change Input (Optional)</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>INR in Lakhs</td> <td>102</td> <td>73</td> <td>29</td> <td>29</td> <td>46</td> </tr> </tbody> </table>	Year	2021-22	2020-21	2019-20	2018-19	2017-18	INR in Lakhs	102	73	29	29	46	Year	2021-22	2020-21	2019-20	2018-19	2017-18	INR in Lakhs	102	73	29	29	46	Year	2021-22	2020-21	2019-20	2018-19	2017-18	INR in Lakhs	102	73	29	29	46	<p>Input is edited by supporting data template. 1. Kindly provide the list of the teaches along with the title of their project the awarding agency, duration of the project and the amount during the assessment period.</p>
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List of the teaches along with the title of their project the awarding agency, duration of the project and the amount during the assessment period.

2021-22 Ongoing projects

S. No	List of the teaches	Count	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr. M Balasubba Reddy, Dr. P Venkata Prasad	2	An Efficient Low Cost Flexible Quality Conditioner to Mitigate Power Quality Issues	AICTE-RPS	11,00,000
2.	Dr. K Janganadha Rao, Sri. I.	3	Non-destructive Testing	AICTE	11,00,000

	Pranav, Smt. K. Spandana		Equipment for Structural health monitoring of Reinforced concrete structures.		
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	7	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	5	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	20	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	4	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	5	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	3	Exploring Magnetic, Magnetocaloric and Magnetoresistive properties of Ti (Fe _{1-x} Cox) ₂	SERB-TARE	2,91,521
9.	Dr. K Janganadha Rao and Dr.Bishwambhar Mishra, Sri M Kalidas, Dr. Daman Jeet, G Shanmukhi Rama	5	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	6	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	6	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	4	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. Sugamyia, Ms G. Kavita	4	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 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 Prapura, Dr. P. Madhuri, Dr. S. Shanmukharao Samatham, Dr. A. Santosh Kumar	24	AICTE-IDEA Lab	AICTE	15,00,000
15.	Dr. P Ravinder Reddy (Principal), Dr. K Janganadha Rao and	2	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	2	R & D Grant	Dr. V. Mallikarjuna Rao	1000000
Total		102			

2020-21
Ongoing projects

S. No	List of the teaches	Count	Title of the project	Awarding Agency	Amount (Rs.)
1.	Dr. G Suresh Babu	1	Special Electrical Machines Lab	AICTE	17,36,000
2.	Dr. K Janganadha Rao, Sri. I. Pranav, Smt. K. Spandana	3	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	6	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	7	Development of Ceramic Coated Diesel Engine Fuelled with CNG and Biodiesel Blended	AICTE	9,94,725

	Krishna, Sri. D Sathish, Dr. I Balakrishna				
5.	Dr. Y Rama Devi and Dr. T Sridevi, Mr. S.Rakesh, Dr. N Vasantha Gowri, Dr. B Indira	5	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. 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	20	Establishment of Atal Community Innovation Centre (ACIC)	NITI Aayog	2,22,25,500
7.	Dr. M. Swamy Das & Dr. G Suresh Babu, Dr. G N R Prasad, Dr. M Anil Kumar	4	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	5	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(6	Research Methodology and Statistical Data Analysis	AICTE	4,89,533
10.	Dr. S China Ramu & Dr. Syed Ahmed, Dr. M Narendra	3	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	3	ATAL FDP on Molecular Manufacturing	AICTE	93,000
12.	Mr. E Ramalakshmi, Dr. B KrishnaChaitanya, Prof. N. Ramadevi	3	ATAL FDP on Augmented reality/virtual reality	AICTE	93,000
13.	Dr. Sangeeta Gupta & Dr. T Murali Krishna, Smt. N Lalitha Kumari	3	ATAL FDP on Block Chain	AICTE	93,000
14.	Dr. Raj Reddy, Dr. V Prasad and Sri Krishna Prasad, Dr. K. Sagar	4	ATAL FDP on Quantum Computing	AICTE	93,000
Total		73			

2019-20
Ongoing projects

S. No	List of the teaches	Count	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	4	Studies on enhancement of the secondary metabolites in invitro through hairy roots and immobilized cell suspensions in medicinally important plant Achyranthes aspera	UGC	1,40,000
2.	Dr. G Suresh Babu	1	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	6	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	3	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	2	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	4	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	4	PRERANA	AICTE	5,87,000
8.	Sri. A Balaji Rao and Sri Ch. Anil Bharadwaj, Mr.R Srikanth	3	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	2	STTP on Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector	AICTE	3,00,000
Total		29			

2018-19
Ongoing projects

S. No	List of the teaches	Count	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	7	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	2	Experimental and Numerical Investigations Friction Stir	UGC	2,70,000

			Welding of Aluminium and Magnesium Alloys		
3.	Dr G. Vijaya Laxmi and Sri. Ch.Harish and Dr PV Prasad, Smt. K Marysudha Rani	4	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
4.	Dr. A Supraja Reddy, Dr. N. V. Koteswara Rao, Dr. K. Suman, Dr. K Sagar, Dr. B Suresh Kumar, Ms. E. Swathi	6	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	19,37,000
5.	Dr. G Suresh Babu	1	Special Electrical Machines Lab	AICTE	17,36,000
6.	Dr. A. D. Sarma, Dr. N V Koteswara Rao, Dr. N Aivelu Manga, Ms. T. Prathima and Sri C Srisailam	5	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	3	Artificial Intelligence based Internet of Things	AICTE-ISTE	3,00,000
8.	Dr. R. Ravinder Reddy	1	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	1,65,000
Total		29			

2017-18
Ongoing projects

S. No	List of the teaches	Count	Title of the project	Awarding Agency	Amount (Russ.)
1.	Dr. K. Radhika, Sri C.Srisailam, Sri. R Srikanth	3	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	7	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	2	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	4	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 Aivelu Manga, Dr. G Suresh Babu, Dr. T Sridevi,	5	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	4	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	4	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	5	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	5	Investigation of the Effects of Ionospheric Spatial decorrelation on Indian GBAS	SAC, ISRO, Ahmedabad	19,37,000
10.	Dr. R. Ravinder Reddy and Dr.B.Suresh Kumar	2	Detecting Anomaly Pattern Sequences in Real Time Network	UGC	1,65,000
11.	Dr. K. Jagannadha Rao, Sri.M.Tirupataiah, Sri. B. Sateesh	3	Strength and durability studies on high strength recycled aggregate concrete	UGC	3,55,000
12.	Dr. K Krishnaveni, Smt.Ch.Vijay lakshmi	2	Power Electronics for Renewable Energy Systems-Present trends and future scope	AICTE	6.05,000
Total		46			