

Criterion III – Research, Innovations and Extension

Metric No.	Key Indicator - 3.1 Promotion of Research and Facilities
3.1.1 Q1M	<p><i>The institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented</i></p> <p>Research and Development is an integral part of the academic activities of Malla Reddy College of Engineering and Technology. MRCET R&D cell is one of the wings of the Institute which facilitates, channelizes, records, and regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute. In a world increasingly propelled by technology, academic research forms the mainspring of a nation's economic growth. MRCET R&D cell aspires to transform the lives of young budding engineers, research scholars and faculty through their innovative ideas to contribute for research at academic level. MRCET R&D cell is closely working with core industries to train the students in this direction. The key goal of the Institute is to provide a creative atmosphere in which higher studies and research thrive amongst the faculty and students. It also promotes and manages Institute-Industry interaction.</p> <p style="text-align: center;">Facilities:</p> <hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> • Systems with high speed internet • Library with digital access • Conferences, Seminars and skill development trainings. • Center for excellence in Robotics and mechatronics. • Center for Innovation, Incubation and Entrepreneurship. • SIRO recognized research center. • MSME recognized Business Incubator. • State of the art laboratories with computerized equipments. • Well qualified faculty. <p>Functions of Research and Development Cell:</p> <ul style="list-style-type: none"> • To create awareness and opportunities in Research and Development among the students & faculty and to create Research and Development atmosphere in every department • To create interest and atmosphere among the staff members to take up Research projects and improve their knowledge, skills and qualifications by registering Ph. D's • To encourage staff members and students to publish technical papers for publishing in National and reputed International Conferences/Journals • To undertake research activities and development projects offered by agencies such as ISRO, DRDO, CSIR, DST, AICTE, UGC, etc. • To assist the students to apply funding for conducting research and startups under student project scheme to various funding agencies like MSME, IEI (I), DRDO, TCS, Infosys etc. • To assist for applying and getting funds for conducting Seminar/Workshop/FDP from various funding agencies • To work with various departments to establish and develop faculty research

	<p>priorities on interdisciplinary areas</p> <p>In order to promote research and development activities, the college extends its full support to students/faculty/staff. Full/Partial financial support is given to all innovative research & development works taken up by the students, faculty and staff members. The college encourages students, faculty and staff to participate in National/International Conferences, Training programmes, Tech-Festivals organized by reputed institutes (IITs/NITs/State Engg. Colleges etc.) by giving full/partial financial support viz. course/registration fee, TA/DA etc.</p> <p>We are also collaborating with MSME & NRDC, Govt of India, New Delhi and T-Hub, Govt of Telangana for innovation and entrepreneur related activities, training programmes and collaborative projects.</p>
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3.1.2	<i>The institution provides seed money to its teachers for research</i>
Q_nM	<p>3.1.2.1 : The amount of seed money provided by institution to its teachers for research year wise during the year (INR in lakhs):</p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the teacher getting seed money • The amount of seed money • Month and Year of receiving grant • Duration of the grant

Academic Year: 2019 -2020

S.No	Name of the teacher getting seed money	Amount of seed Money	Month and Year of receiving grant	Duration of the grant
1	Dr.S.Nagendra Prabhu	50000	Jun-19	365 days
2	Dr.Thayyaba Khatoon	10000	Aug-19	365 days
3	Mr.Jayapal	10000	Jan-20	365 days
4	Dr.D.Sujatha	50000	Jun-19	365 days
5	Dr.V.Chandrasekar	50000	Jun-19	365 days
6	Dr.S.Shanthi	5000	Jun-19	365 days
7	Mr.P.Bikshapathy	10000	Apr-19	365 days
8	Dr.G.Sharada	5,000	Mar-20	365 days
9	J. Suneetha	4,000	May-20	365 days
10	Dr.N.S.Gowri Ganesh	4,000	Jun-20	365 days
11	Dr. Roopa Chandrika R	4,000	Jul-20	365 days
12	Dr. A. Mummoorthy	4,500	Oct-20	365 days
13	M. Vazralu	3,500	Nov-20	365 days
14	P. Srinivasa Rao	4,000	Dec-20	365 days

15	Dr. Amarnadha Reddy	76000	June & 2019	182 days
16	Dr. Srikar	61200	April & 2019	182 days
17	Dr. Nagaraju	43500	June & 2019	120 days
18	Dr. P.H.V SeshaTalpa Sai	83500	August & 2019	240 days
19	Dr. Jain BR Tony	55000	September & 2019	182 days
20	M.Arun Kumar	10,000	July,2019	270 days
21	V.Kiran Kumar	15,000	August,2019	365 days
22	T.Srinivas	10,000	Oct,2019	300 days
23	K.MalliKarjuna Lingam	10,000	Jan,2020	365 days
24	G.S.Naveen Kumar	10,000	Feb-20	365 days

3.1.3 Q_nM	<p><i>Number of teachers awarded national / international fellowship for advanced studies/research during the year:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the teacher awarded national/international fellowship for advanced studies /research • Name of the award • Month and Year of Award • Awarding Agency
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SNo	Name of the teacher awarded national /international fellowship for advanced studies / research	Name of the award	Month and Year of Award	Awarding Agency
1	Dr.D.Sujatha	Academic Leadership	12-06-2019	International Association of Research and development organization, Kasetsart University, Chatuchak, Bangkok, Thailand
2	Dr. S.Shanthi	Young Researcher Award	12-06-2019	International Association of Research and development organization, Kasetsart University, Chatuchak, Bangkok, Thailand
3	Dr. V. Chandrasekar	Best Researcher Award	15-07-2019	International Association for Science and Technical Education
4	Renju Panicker	Fellowship	21-04-2020	Institute of Electrical and Electronics Engineers.(IEEE)

5	Neha Thakur	Fellowship	12-03-2020	Institute of Electrical and Electronics Engineers.(IEEE)
6	Prof P Sanjeeva Reddy	Fellowship	08-03-2010	The Institution of Electronics and Telecommunication Engineers (IETE)
7	K. Mallikarjuna linagam	Fellowship	23-03-2016	The Institution of Electronics and Telecommunication Engineers (IETE)
8	Dr. V.M Senthil Kumar	Fellowship	15-06-2016	ISSE
9	P.Swetha	Fellowship	06-04-2013	ISTE
10	Dr.Sucharitha	Fellowship	06-04-2008	ISTE

3.2.1 Q_nM	<p><i>Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in Lakhs):</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the Project/ Endowments, Chairs • Name of the Principal Investigator • Department of Principal Investigator • Month and Year of Award • Funds provided • Duration of the project • Name of the Project/ Endowments, Chairs
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Metric No.					
3.2.1 Q_nM					
S.No	Nature of the Project	Duration in day	Name of the funding agency	Total grant sanctioned (Rupees in Lakhs)	Amount received during the year (Rupees in Lakhs)
1.	Beyond text QA Multimedia Answer Generation by Web Harvesting	1095 days	Coign Consultants Pvt. Ltd., Hyderabad	5.00Lakhs	3.00 Lakhs
2.	Predict the onset of diabetes based on diagnostic measures	730 days	M/S Admire Solutions, Coimbatore	4.75Lakhs	2.75Lakhs
3.	Telugu to English conversion of image text using	730 days	VN Career Solutions	2 Lakhs	1 Lakhs

	Optical Character Recognition technique				
4.	Content based Image retrieval, classification using Neural Networks	365 days	Malla Reddy Narayana Hospital	80,000	50,000
5.	Road detection and segmentation from Aerial images using CNN based system	365 days	Aparna Constructions	55,000	30,000

3.2.2 QnM	Number of teachers having research projects during the year:			
S.No	Name of the Principal Investigator	Department of Principal Investigator	Academic Year	Number of Research Projects
1	Dr. D.Sujatha	CSE	2019-2020	1
2	Dr.Thayyaba Khatoon MD	CSE	2019-2020	1
3	Dr.R.Roopaa chandrika	IT	2019-2020	1
4	Dr.B.Jyothi	ECE	2019-2020	1
5	D.Asha	ECE	2019-2020	1

3.2.3 QnM	Number of teachers recognized as research guides Data Requirement: <ul style="list-style-type: none"> List of teachers recognized as research guides
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Academic Year: 2019 -2020

S.No	Name of the Faculty	Registered University as Guide	Department
1	Dr VSK Reddy	JNTUH, Hyderabad	ECE
2	Dr VSK Reddy	JNTUK, Kakinada	ECE
3	Dr VSK Reddy	LUC, Malaysia	ECE
4	Dr S Srinivasa Rao	JNTUH, Hyderabad	ECE
5	Dr S Srinivasa Rao	GITAM, Visakhapatnam	ECE
6	Dr S Srinivasa Rao	KLU, Vijayawada	ECE

7	Dr S Srinivasa Rao	SSSUTMS, Indore	ECE
8	Dr S Srinivasa Rao	LUC, Malaysia	ECE
9	Dr S Srinivasa Rao	Malla Reddy University, Hyderabad	ECE
10	Dr B Jyothi	GITAM, Visakhapatnam	ECE
11	Dr B Jyothi	Malla Reddy University, Hyderabad	ECE
12	Dr M Sucharitha	Lovely Professional University, Punjab	ECE
13	Dr.S.Shasikanth	GITAM University, Visakhapatnam	ECE
14	Dr N Subhash	Lovely Professional University, Punjab	ECE
15	Dr.D.Sujatha	Malla Reddy University, Hyderabad	CSE
16	Dr D Sujatha	LUC, Malaysia	CSE
17	Dr S Shanthi	Malla Reddy University, Hyderabad	CSE
18	Dr V Chandrasekar	Anna University, Chennai	CSE

3.2.4 QnM *Number of departments having Research projects funded by government and non-government agencies during the year:*

2019 – 2020

S.No	Name of Principal Investigator	Duration of project	Name of the research project	Amount / Fund received	Name of funding agency	Month and Year of sanction	Department of recipient
1	Dr. D.Sujatha	3 Years	Beyond text QA Multimedia Answer Generation by Web Harvesting	5.00 Lakhs	Coign Consultants Pvt. Ltd., Hyderabad	September - 2019	CSE
2	Dr.Thayyaba Khatoon MD	2 Years	Predict the onset of diabetes based on diagnostic measures	4.75 Lakhs	M/S Admire Solutions, Coimbatore	December - 2019	CSE
3	Dr.R.Roopachandrika	2 Years	Telugu to English conversion of image text using Optical Character Recognition technique	2 Lakhs	VN Career Solutions	2019	IT
4	Dr.B.Jyothi	1 Year	Content based Image retrieval, classification using Neural Networks	80,000	Malla Reddy Narayana Hospital	2019	ECE
5	D.Asha	1 Year	Road detection and segmentation from Aerial images using CNN based system	55,000	Aparna Constructions	2019	ECE

3.3.1

3.3.1 Institution has created an eco-system for innovations including Incubation Centre and other initiatives for creation and transfer of knowledge

MRCET has created an ecosystem for Research and Innovation by

- (i) recruiting and developing desirable human resource,
- (ii) taking initiative for creation and dissemination of knowledge and
- (iii) establishing state of the art infrastructure:

Human Resource Development

At the entry level, MRCET recruits meritorious, dynamic and enterprising young faculty through an elaborate selection process that involves careful scrutiny of applications, testing of knowledge and teaching skills through seminars and selection interviews.

The annual performance appraisal system encourages faculty to enhance their teaching, research and administrative skills, as well as social services to the desired level of promotion. Faculty members are encouraged to undergo professional development programmes and organize and participate in Conferences, Seminars and Workshops. Leave is granted and financial support is provided to participate in India and abroad. Teaching and non-teaching staff are encouraged to enhance their qualifications and pursue part-time PhD programs.

The institute has a well-defined and published research promotion policy. Faculty members are encouraged and financially supported to guide research. A good number of students have registered for M Tech and Ph D programs and the numbers are increasing every year. Research Fair is organized in the campus where all research scholars across the institute demonstrate their research work.

The Institute has identified Broad Research Divisions with several sub-divisions. The main objectives of these research divisions are to contribute to the society through their research. The research may not lead to publications but the research output will definitely help the society. MRCET is engaged in research for solutions. Some of the products developed after rigorous research used for the community are listed below:

Young faculties across the institute are encouraged to do research in multi-disciplinary and inter disciplinary areas. Young Faculty members are financially supported upto Rs. 3 Lacs by the Institute for their research scholars, the UG and PG students are being funded for their research/projects, Paper publication and travel grants for national and international travels.

Excellent research infrastructure

Research infrastructure has been created, both through extramural sources that include MHRD, UGC and AICTE and also through intramural funding. Seed funding is provided to pursue specific research programs. Central facilities and advanced Research Centres and Laboratories have been established that are accessible to all. It is ensured that they are optimally utilized.

The Institute has developed several research labs in the respective area of research. These include:

- Library with digital access
- Conferences, Seminars and skill development trainings.
- Center for excellence in Robotics and mechatronics.
- Center for Innovation, Incubation and Entrepreneurship
- SIRO recognized research center.
- MSME recognized Business Incubator.
- Centre of Excellence in Cloud Computing
- Centre of Excellence in Artificial Intelligence
- T-HUB in association with Govt of Telangana
- Partnership with TASK(Telangana Academy for Skill and Knowledge)
- TBI &Startups centre.

Visits by Internationally known experts

MRCET invites renowned experts from various domains from India and abroad to facilitate networking and establish collaborations for undertaking multi-disciplinary and inter- disciplinary research. Regular annual events are organized such as, the International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT)

Emeritus and adjunct professors from academia and industry have been appointed. External co-supervisors are appointed from universities with MoU with MRCET for PhD students.

MRCET has signed MoUs with prestigious academic institutions and research organizations such as, Trinity College Dublin, ECPI University, USA, University of Central Missouri, USA, Capliano University, Vancouver, Canada, University Malaysia Sarawak (UNIMAS), IIT Kharagpur and IIT Bombay.

Entrepreneurship and Virtual Incubation Centre

Research and Development is an integral part of the academic activities of Malla Reddy College of Engineering and Technology. MRCET R&D cell is one of the wings of the Institute which facilitates, channelizes, records, and regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute. In a world increasingly propelled by technology, academic research forms the mainspring of a nation's economic growth. MRCET R&D cell aspires to transform the lives of young budding engineers, research scholars and faculty through their innovative ideas to contribute for research at academic level. MRCET R&D cell is closely working with core industries to train the students in this direction. This objective will be very close to the heart of the industry in the direction of producing ready to be employed engineers. The key goal of the Institute is to provide a creative atmosphere in which higher studies and research thrive amongst the faculty and students. It also promotes and manages Institute-Industry interaction.

RESEARCH OBJECTIVES:

- To create zeal amongst faculty and students towards research and innovation.
- To create centres of Excellence in niche areas of research.
- To work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase productivity of the industry.
- To foster collaborations for mutual benefits and to maximize Industry - Institute connectivity.
- To establish collaboration with other universities, public and private sectors and identify R&D projects including consultancy services which could be undertaken at the institution.
- To promote research in various departments of the Institute.
- To ensure smooth functioning and effective Management of R&D at the institution.
- To organize and promote skill development trainings in emerging areas to enhance the employability skills of the students.
- To promote self employability skills by conducting various activities under Center for Innovation, Incubation and Entrepreneurship (CIIE)

Industry-Institute Partnership Cell

MRCET professional association with an **Industry-Institute Partnership Cell (IIPC)** sanctioned by the All Indian Council for Technical Education (AICTE) which definitely acts as an interface between the industries and Institute to take up collaborative activities in the fields of innovative practices and entrepreneur development. Entrepreneurship development cell has taken a revolutionary responsibility to generate the entrepreneurship skills among the students and help them to capitalize their ideas and achieve concrete goals to become a versatile entrepreneur. Moreover, we also give exposure of industrial sector to the challenging young minds to gain the perfect idea of market need and requirements. The system for the execution of EDC is initiated by different departmental faculty members and student coordinators. Contribute to global challenges and create a better society.

EDC /IIPC- Objectives

Entrepreneurship development cell bridges the gap between ideas to develop new innovative market. The IIPC has eventually leaded to the start of EDC to boost up the concrete mindset of enthusiastic students who wants to excel in the different fields of today's competitive business world. To strengthen the bond between industries and institute it works for following objectives.

- To arrange industrial training for students and identify student project work in industries relevant to industry need.
- To interact with R & D organizations for conducting joint research work.
- To arrange technical exhibitions / project competitions, personality development

	<p>workshops.</p> <ul style="list-style-type: none"> • To arrange short-term tailor made programmes: Duration of 5 to 7 days for the benefit of professionals in various technical disciplines. • To arrange need based training programme in association with industries by MOU's. <p>Some ongoing research</p> <p>The institution uses a system's thinking approach for research. The multi-disciplinary and inter-disciplinary focus on research makes this institute unique. Some of the unique areas identified by the institute and work ongoing include:</p> <ul style="list-style-type: none"> • Smart Feeding system using IoT for Hydroponics farming DST, New Delhi • Smart Remote Fault monitoring and diagnosis of solar power plant using Internet of Things DST, New Delhi • Assessment of Impact of Digitization on socio-economic status in rural areas of Telangana State STRIDE, UGC • Development of Telemedicine for Health Care Applications in Rural Areas STRIDE, UGC • Smart Voting Machine(SVM) using Deep Learning Techniques, Research promotion scheme, AICTE • Development of an IoT Based Azotemia and Kidney damage Detector Using Urinary Bladder Measuring Device and Machine Learning Approach ,SERB-CRG <p>Some other initiatives include:</p> <ol style="list-style-type: none"> 1. Entrepreneurship meets. 2. Visits to industries. 3. Organization of Technofest (Exumberlandza) to foster creativity and innovation along with other creative contests. 4. Project work for all students. 5. Annual exhibits of Models and Innovative ideas of students on Founder's Day. 6. Skill training to augment potential for start-ups through TBI
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<p>3.3.2 Q_nM</p>	<p><i>Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development during the year:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the workshops /seminars • Number of Participants • Date (From-to) • Link to the activity report on the website
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**Workshop / Seminar - Conducted for the
Academic Year : 2019 - 2020**

S.No	Year	Name of the workshop/ seminar	Date From – To	Link to the Activity report on the website	No of Particip ants
1	2019	CRT on C programming & Data structures	8 th to 12 th July 2019	https://mrcet.com/CSE_Events.html	200
2	2019	Inauguration of MRCET Innovation club	3 rd Aug, 2019	https://mrcet.com/CSE_Events.html	160
3	2019	CRT on C,C++ programming –project based training	09,10 Aug, 2019 & 13,14 Aug, 2019	https://mrcet.com/CSE_Events.html	180
4	2019	CRT classes for III Year	11 th & 12 th Aug, 2019	https://mrcet.com/CSE_Events.html	190
5	2019	CSI inauguration and technical talk on block chain technology	2 nd Nov, 2019	https://mrcet.com/CSE_Events.html	220
6	2019	CSIR sponsored “Two days national level workshop on Machine learning for human-Robot collaborate and Artificial Intelligence awareness”	22&23 Nov, 2019	https://mrcet.com/downloads/departments/updates/CSE/CSIR%20WORKSHOP%20REPORT(22,23NOV2019).pdf	110
7	2020	One day workshop on C&C++ by IIT Bombay	29 th Feb, 2020	https://mrcet.com/CSE_Events.html	200
8	2020	One week workshop on Machine learning using Watson studio	10 th to 14 th ,Mar, 2020	https://mrcet.com/CSE_Events.html	200
9	2020	ICSCSP(International Conference on Soft Computing & Signal Processing)	21 st -22 nd Aug,2020	https://mrcet.com/CSE_Events.html	70
10	2020	Leadership Talk with Dr K K Agarwal, Chairman-NBA	18-04-2020	Leadership talk series	12
11	2020	Leadership Talk with Shri. Ronnie Screwvala, Chairman Upgrad	17-04-2020	Leadership talk series	8
12	2020	Leadership Talk with Dr. Vinay Saharabudhe, President ICCR, GoI	16-04-2020	Leadership talk series	12

13	2020	Leadership talk series with Ms Shradha Sharma	15-04-2020	<u>Leadership talk series</u>	9
14	2020	Submission of project for MHRD SAMAADHAN scheme	14-04-2020	<u>Proposal submission</u>	9
15	2020	Leadership talk series with Dr. Anand Deshpande, Founder-Persistent systems	14-04-2020	<u>Leadership talk series</u>	2
16	2020	Leadership talk series with Dr V K Saraswat, member, NITI Aayog	13-04-2020	<u>Leadership talk series</u>	23
17	2020	Webinar on Digital Marketing for Start-ups	12/4/2020	Webinar series-T-tribe	
18	2020	5G Hackathon Team	Submitted	<u>DTC</u>	50
19	2020	Idea labs webinar series on inspiring young innovators	12/4/2020	<u>Leadership talk series</u>	3
20	2020	Leadership talk series with CEO @mygovindia	12/4/2020	Dr. Pratima Khandelwal	5
21	2020	Online Workshop on Intellectual Property Rights by Pandit Deendayal Petroleum University (PDU)	10 th -11 th , April 2020	<u>Leadership talk series</u>	50
22	2020	Leadership talk series with Dr. Partha Chakraborty, Ex-Director-IITKGP	10/4/2020	<u>Leadership talk series</u>	50
23	2020	T-hub with Emerging technologies wing ITE&C and CCMB	9/4/2020	<u>Leadership talk series</u>	3
24	2020	IIC-Leadership talk series with prof. Anil Sahasrabudhe, Chairman, AICTE	9/4/2020	<u>Proposal submission</u>	30
25	2020	IIC- Leadership talk series with Dr. Vijayaraghavan, Principal scientific advisor	8/4/2020	<u>Leadership talk series</u>	50
26	2020	Webinar on Data Science by Data scientists	7/4/2020	<u>Leadership talk series</u>	52
27	2020	Startup bytes	7 th -8 th ,Apr 2020	Webinar series-T-tribe	52

28	2020	Conducted a quiz on COVID-19 Pandemic to T-tribe students	7/4/2020	<u>DTC</u>	21
29	2020	MIC-Leadership Talk with Mr. Abhishek Suryawanshi, Director, Wikipedia Swastha	7/4/2020	<u>Idealabs-T-hub</u>	49
30	2020	Ideation challenge	5/4/2020	<u>Online workshop</u>	49
31	2020	Free training course on Robotic process Automation	2 nd April to ongoing	<u>Leadership talk series</u>	21
32	2020	Online workshop on emerging technologies - Block chain and it's use cases in a pandemic like covid-19 by Pankaj Diwan, Founder &CEO, Idealabs& National Lead, Blockchain SIG - Hyderabad Fintech Forum	30 th March 2020	<u>Online idea jam session for students</u>	83
33	2020	Fight Corona Ideathon	27 th -28 th March 2020	<u>Leadership talk series</u>	2
34	2020	AICTE-SIH 2020 Software results	18 th March 2020	<u>Leadership talk series</u>	45
35	2020	Innovate Mygov-Pledge on Entrepreneurship with MRCET	17 th March 2020	<u>Cantilever</u>	2
36	2020	FDP on recent advanced in big data analytics of IoT-devices using fog computing	5.3.20-10.3.20	<u>www.mrcet.ac.in</u>	25
37	2020	One-week crash course on Innovation And Entrepreneurship	04-11 JUNE,2020	<u>http://www.mrcet.ac.in/</u>	200
38	2019	FDP on Python Programming With Industry Perspective	2 – 6 DEC,2019	<u>https://mrcet.com/ME_gallery.html</u>	6
39	2019	FDP on automation for smart industry and manufacturing	5-7 Dec,2019	<u>https://mrcet.com/ME_gallery.html</u>	32
40	2020	ICSCSP-2020	21-22 Aug,2020	<u>https://mrcet.com/ECE_Events.html</u>	300
41	2020	FDP on Embedded UVM open source Emulation & Verification in Association with NIT Patna(E & ICT)	13-24,July 2020	<u>https://mrcet.com/ECE_Events.html</u>	85
42	2020	FDP on VLSI chip design using Open source EDA Tools in	4/7/2020	<u>https://mrcet.com/ECE_Events.ht</u>	95

		Association with NIT Patna(E & ICT)		ml	
43	2019	FDP on VLSI chip design using Open source EDA Tools in Association with NIT Patna(E & ICT)	16-20,Dec-2019	https://mrcet.com/ECE_Events.html	106

3.4.1 QnM	<p><i>The Institution ensures implementation of its stated Code of Ethics for research through the following:</i></p> <ol style="list-style-type: none"> <i>1. Inclusion of research ethics in the research methodology coursework</i> <i>2. Presence of Ethics committee</i> <i>3. Plagiarism check through software</i> <i>4. Research Advisory Committee</i> <p>Options:</p> <ol style="list-style-type: none"> <i>A. All of the above</i> <i>B. Any 3 of the above</i> <i>C. Any 2 of the above</i> <i>D. Any 1 of the above</i> <i>E. None of the above</i>
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3.4.1: The Institution ensures implementation of its stated Code of Ethics for research through the following:		
Provide upload the URL having code of ethics	Whether Colleges have been provided access to plagiarism detecting software (Yes/No)	Mechanism for detecting plagiarism
https://mrcet.com/CodeofEthics.html	Yes	Drill Bit Anti Plagiarism software https://www.drillbitplagiarism.com/index.html

3.4.2 QnM	<p><i>Number of Ph.D's registered per teacher (as per the data given w.r.t recognized Ph.D guides/ supervisors provided at 3.2.3 metric) during the year:</i></p> <p>File Description(Upload)</p> <ul style="list-style-type: none"> • URL to the research page on HEI website • List of PhD scholars and their details like name of the guide , title of thesis, month and year of registration etc
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Details of Scholars working under Registered Guides

Name of full time teacher with Ph.D	Qualification	Whether recognised as research Guide	Year of Recognition as Research Guide	Is the teacher still serving the institution/If not last year of the service of Faculty to the Institution	Name of the scholar	Year of registration of the scholar	Year of Awarding	Title of the thesis for scholar
Dr.VSK Reddy	Ph.D	Yes	2009	Yes	A.Venkateshwarulu	2011	Pursuing	Hybrid Image Water Marking Algorithm
					P. Anil Kumar	2012	Pursuing	Network Security
					S. Dinesh	2015	Pursuing	Wireless Sensor Networks
					Mr.G.S. Naveen Kumar	2017	2020	Content Based Image Retrieval
					K. Mallikarjuna Lingam	2017	2020	Content Based Video Retrieval through 4G Wireless Networks
					Kiran babu Sangeetha	2019	Pursuing	A Novel Video Coding Algorithm for 5G Communication
Dr.S.Srinivasa Rao	Ph.D	Yes	2014	yes	Ch Suneetha-KLU	2014	Pursuing	Spectrum Decision and Channel Band width Assignment in CR networks using IPV6
					M Venkatapathi-KLU	2017	Pursuing	Spectrum Sensing Algorithm (SSA) for Performance improvement in Cognitive Radio

					R Chinna Rao-GITAM	2016	Pursuing	Performance enhancement of vocoders using IPDP protocol for speech processing in mobile communication
					P Swetha-JNTUH	2016	Pursuing	Performance Enhancement of Sampling Rate Converters In Wireless Sensor Networks
					M Ananta Guptha	2017	Pursuing	Novel VLSI Architecture for Lifting Based 2D DWT
					Jaganadh Jadav	2016	2020	Automatic Semantic Segmentation Of Remote Sensing Data For Agriculture
Dr.B.Jyothi	Ph.D	Yes	2018	Yes	T.Srinivas	2018	Pursuing	High performance Image Retrieval
Dr.M.Sucharitha	Ph.D	Yes	2018	Yes	Ch.Kiran Kumar	2018	Pursuing	Feature extraction for Alzheimers Disease Identification
Dr. C.RaviShankarReddy	Ph.D	Yes	2018	Yes	M.Anusha	2018	Pursuing	A rounding based approximate multiplier for energy efficient digital signal processing
Dr.S.Shasikanth	Ph.D	Yes	2019	Yes	G.Ragini	2018	Pursuing	RF based smart home automation system
Dr.N.Subhash	Ph.D	Yes	2019	Yes	K.Suresh	2019	Pursuing	Tumor segmentation by fusion of MR images using Copula

								based statistical methods
Dr.VM Senthil Kumar	Ph.D	Yes	2017	yes	D. David	2018	Pursuing	Low Power FinFET based Adiabatic Logic Circuits
Dr. D.Sujatha	PhD	Yes	2015	Yes	Venkat Rao	2019	Pursuing	Methods for automation of the process of soil testing through a IoT device
Dr. D.Sujatha	PhD	Yes	2015	Yes	G V D Prasad	2020	Pursuing	
Dr.V.Chandrasekar	PhD	Yes	2018	Yes	Arthi	2019	Pursuing	
Dr.M.MuraliKrishna	Ph.D	YES			Mr Raj kumarsanthosh	2017	Pursuing	Renewable energy
Dr.M.MuraliKrishna	Ph.D	YES			Mr. Mahendran	2017	Pursuing	Thermal Engg.-CFD
Dr. PHV Seshalalpa Sai	Ph.D	YES	2017	YES	MLR Chaitanya Lahari	2017	Pursuing	Experimental Investigations On Heat Transfer Enhancement And Friction Factor Using Composite Nano-Fluids
Dr. PHV Seshalalpa Sai	Ph.D	YES	2017	YES	P. Hassena Bee	2018	Pursuing	Investigation on Effect of Nano-Cutting Fluid in Machining Process and its Influence on Tool Life and Work Piece Morphology
Dr. PHV Seshalalpa Sai	Ph.D	YES	2017	YES	Prasuna Lilly Florence	2018	Pursuing	Resistance Spot Welding Process by Using Dissimilar Materials With

									Dissimilar Thicknesses for Industrial and Automobile Applications
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<p>3.4.3</p> <p>Q_nM</p>	<p><i>Number of research papers per teacher in the Journals notified on UGC website during the year:</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Title of paper • Name of the author/s • Department of the teacher • Name of journal • Month and Year of publication • ISBN/ISSN number
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Faculty Publications A.Y.2019-2020

Faculty Publications A.Y.2019-2020						
S.No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Month and Year of publication	ISBN/ISSN: number
1	A Virtual Honeynet Based Botnet Detection (Vhbd) Architecture for Cloud	Dr.S.Shanthi	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Jun-19	ISSN: 2249-8958
2	A Systematic and Analytical Approach to Techniques and Tools in Topic Modeling	Dr.S.Shanthi	CSE	International Journal of Recent Technology and Engineering (IJRTE)	May-19	ISSN: 2277-3878
3	Enhancing Heart Disease Prediction Models with Feature Selection and Ensemble Methods	P.Dileep	CSE	Jour of Adv Research in Dynamical & Control Systems	Oct-19	ISSN 1943-023X
4	A Review on Machine Learning Techniques for Data-Driven Heart Disease Prediction	P.Dileep	CSE	The Journal of GujarathReasearch Society	2019	ISSN: 0374-8588
5	Deep Learning Model for Improving Performance of Heart Disease Diagnosis	P.Dileep	CSE	Journal of Information and Computational Science	2019	ISSN:1548-7741
6	An Efficient Feature Selection Based Heart Disease Prediction Model	P.Dileep	CSE	International Journal of Advanced Science and Technology	2019	ISSN: 2005-4238
7	A Virtual Honeynet Based Botnet Detection (Vhbd) Architecture for Cloud	Dr.S.Nagendra Prabhu	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Jun-19	ISSN: 2249-8958
8	Fast, Efficient And Protected Data Realization For Cloud Supported Internet Of Things In Smart Network	Dr.S.Nagendra Prabhu	CSE	The International journal of analytical and experimental modal analysis	Nov-19	ISSN NO: 0886-9367
9	A Systematic and Analytical Approach to Techniques and Tools in Topic Modeling	Dr.S.Nagendra Prabhu	CSE	International Journal of Recent Technology and Engineering (IJRTE)	May-19	ISSN: 2277-3878
10	Mining Contest From Large Traditional Information	Dr.Md.Tayyabha Khatoon	CSE	Journal of Engineering and Sciences	Dec-19	ISSN NO: 0377-9254

11	Latent Feature Word Representations to Enhance Topic Models for Text Mining Algorithms	Dr.Md.Tayyabha Khatoon	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-19	ISSN: 2249 – 8958
12	Identity Based-Dual Server Valid Key Exchange Protocols	Dr.V.Chandrashekar	CSE	Journal of Applied Science and Computations	Jun-19	ISSN NO: 1076-5131
13	An Advanced Traveler Information System in a Co-Modal Framework by using Multi objective optimization	M.Jayapal	CSE	Journal of Engineering and Sciences	Dec-19	ISSN NO: 0377-9254
14	Applications Of IOT In Communications & Security	M.Jayapal	CSE	Think India Journal	Nov-19	ISSN:0971-1260
15	Analytical Study on Internet of Things Related with Software Architecture	M.Jayapal	CSE	RESEARCH REVIEW International Journal of Multidisciplinary	May-19	ISSN: 2455-3085 (Online)
16	Software Architectural Styles in the Internet of Things	M.Jayapal	CSE	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY	Nov-19	ISSN: 2349-6002
17	Latent Feature Word Representations to Enhance Topic Models for Text Mining Algorithms	M.Gayatri	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-19	ISSN: 2249 – 8958
18	A Framework for Multi-Objective and Comprehensive Analysis of Web User Behavioural Patterns	M.Gayatri	CSE	International Journal of Advanced Science and Technology	Jan-20	ISSN: 2005-4238
19	Machine Learning Algorithm for Early Detection of Heart Diseases Using 3-Tier IoT Architecture	B.Pavani	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Sep-19	ISSN: 2249 – 8958
20	Author Profiling using Stylistic and N-Gram Features	D.Radha	CSE	International Journal of Engineering and Advanced Technology	Sep-19	ISSN: 2249 – 8958
21	A Method for the Safely Exchange of Private Health Records in the Cloud	P.Saleem	CSE	International Journal & Magazine of Engineering, Technology, Management and Research	Dec-19	ISSN: 2348 –4845

22	Support Vector Machines to Identify Information towards Fixed-Dimensional Vector Space	N.Vijay Kumar	CSE	International Journal of Innovative Technology and Exploring Engineering	Aug-19	ISSN: 2278-3075
23	Latent Feature Word Representations to Enhance Topic Models for Text Mining Algorithms	M.Sandeep	CSE	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-19	ISSN: 2249 – 8958
24	An efficient approach for video retrieval by spatio-temporal features	GS Naveen Kumar, VSK Reddy	ECE	International Journal of Knowledge-Based and Intelligent Engineering Systems	2019	ISSN: 1327-2314
25	An Effective Scheme for Shot Boundary Detection and Key Frame Extraction for Video Retrieval	GS Naveen Kumar, VSK Reddy	ECE	International Journal of Recent Technology and Engineering	Nov-19	ISSN: 2277-3878
26	Detection of Shot Boundaries and Extraction of Key Frames for Video Retrieval	GS Naveen Kumar, VSK Reddy	ECE	International Journal of Knowledge-Based and Intelligent Engineering Systems	2019	ISSN: 1327-2314
27	A Scheme for Shot Detection and Video Retrieval using Spatio Temporal Feature	GS Naveen Kumar, VSK Reddy	ECE	International Journal of Recent Technology and Engineering	Sep-19	ISSN: 2277-3878
28	Content relative thresholding technique for key frame extraction	Mallikarjuna LK, VSK Reddy	ECE	International Journal of Knowledge-based and Intelligent Engineering Systems	2019	ISSN: 1327-2314
29	An Adaptive Correlation Based Video Data Mining using Machine Learning	Mallikarjuna LK, VSK Reddy	ECE	International Journal of Recent Technology and Engineering	Nov-19	ISSN: 2277-3878
30	Retrieval of Video Contents based on Deep Parameter Analysis using Machine Learning	Mallikarjuna LK, VSK Reddy	ECE	International Journal of Recent Technology and Engineering	Sep-19	ISSN: 2277-3878

31	Error Compensation Technique For 90nm CMOS Fixed-Width And Area Efficient Booth Encoding Multiple	S. Ravindrakumar, V.M. Senthilkumar, S. Jayasri, D. Nithya And Jyotsna Siva	ECE	ICTACT Journal On Microelectronics	Oct-19	ISSN: 2395-1680
32	A Vedic Mathematics based Processor Core for Discrete Wavelet Transform Using FinFET and CNTFET Technology for Biomedical Signal Processing	V.M. SenthilKumar, S.Ravindrakumar, D.Nithya, N.V.Kousi	ECE	Microprocessors and Microsystems	Aug-19	ISSN 0141-9331
33	Implementation of MEMS Capacitive Pressure Sensor Design using COMSOL Software	ArunkumarMadupu, Sreenivasa Rao Ijjada, Gowri Ishwari	ECE	International Journal of Recent Technology and Engineering	Aug-19	ISSN: 2277-3878
34	A Hybrid Full adder design Using Multigate Devices Based on XOR/XNOR Logic	Ciddula Rathnakar, Senthilkumar VM, Ravindrakumar S and AnanthaGuptha M.	ECE	Advances in Intelligent Systems and Computing	Mar-20	ISSN 2194-5357
35	Low Power Less Leakage Operational Transconductance Amplifier (OTA) Circuit Using FinFET	MaramAnanthaGuptha, Senthilkumar V.M., Hari Prasad T and Ravindrakumar S	ECE	Advances in Intelligent Systems and Computing	Mar-20	ISSN 2194-5357
36	Fast Compression For Brain MR Images With Proposed Algorithms	M.Ramanjaneyulu, A.V.Narasimha Rao, M.Balraju	ECE	International Journal of Innovative Technology and Exploring Engineering	Jul-19	ISSN: 2278-3075
37	Dynamic mode decomposition of supersonic turbulent pipe flow with and without shock train	G Srinivasan	AERO	Journal of Turbulence	2019	1468-5248

38	Wind Tunnel on Drag Reduction in Aircraft Wing by Inducing Surface Roughness	Ajith Raj	AERO	International Journal of Recent Technology and Engineering	2019	2277-3878
39	Mathematical Modelling and Volume Prediction of Metal Melted by Electron Beam Welding in Copper and Stainless Steel 304 Dissimilar Metal Joints	Ajith Raj	AERO	International Journal of Recent Technology and Engineering	2019	2277-3878
40	Investigation of tribological properties of biomass developed porous nano activated carbon composites	Dheeraj K Gara	AERO	Wear	2020	
41	Analytical, Numerical and Experimental Analysis of Double Collar Collet Chuck Holder by Combined Extrusion and Forging Processes	Dheeraj K Gara	AERO	International Journal of Materials and Product Technology	2020	1741-5209
42	Determination of virial stress on atoms using 2nd nearest neighbour embedded atomic model (2NNEAM) for a nitinol shape memory alloy (SMA)	Dheeraj K Gara	AERO	Materials Today: Proceedings	2020	
43	Demystifying the grid dependency of Severe Plastic Deformation during Combined Extrusion Forging Process	Dheeraj K Gara	AERO	International journal of mechanical, production engineering research and development	2020	ISSN(Print) : 2249-6890
44	A review on process parameters associated with constitutive modelling of shape memory alloys-2	Dheeraj K Gara	AERO	International journal of mechanical, production engineering research and development	2019	ISSN(Print) : 2249-6890

45	A short review on constitutive modelling of the shape memory alloys-1	Dheeraj K Gara	AERO	International journal of mechanical, production engineering research and development	2019	ISSN(Print) : 2249-6890
46	Quandaries during numerical analysis on shape memory product	Dheeraj K Gara	AERO	International journal of mechanical, production engineering research and development	2019	ISSN(Print) : 2249-6890
47	Numerical Study on the Effect of Contraction Ratio on Supersonic Intake Starting Characteristics	Dheeraj K Gara	AERO	International journal of mechanical, production engineering research and development	2019	ISSN(Print) : 2249-6890
48	DESIGN AND TESTING OF ROCKET MOTORS WITH COMPOSITE PROPELLANTS	Dr. CH Sreenadh	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
49	DESIGN OPTIMIZATION OF ROTOR PROPULSIVE DELTA WING	Prof V Ravi	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
50	DRAG POLAR FOR COMBAT AIRCRAFT	L Sushma	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
51	PYRO BASED SYSTEMS IN FIN LOCKING MECHANISM FOR MISSILE APPLICATIONS	D Smitha	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890

52	COMPUTATIONAL STUDY OF OBLIQUE SHOCK INDUCED DETONATION WAVE STABILIZATION BY DEFLECTION OF WEDGE SURFACE	L Sushma	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
53	THE EFFECT OF INTERFACE GEOMETRY IN MIXING OF TWO CO-AXIAL SUPERSONIC JETS USING COMPUTATIONAL FLUID DYNAMICS	J Sandeep	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
54	DESIGN OF ANNULAR COMBUSTION CHAMBER FOR A MICRO TURBOFAN ENGINE	J Sandeep	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
55	AERODYNAMIC STUDY OF SPAN WISE MORPHING WING	J Sandeep	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
56	COMPUTATIONAL STUDY ON PERFORMANCE OF RAMJET ENGINE FOR VARIOUS MACH NUMBERS	L Sushma	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
57	EFFECT OF KNUDSEN NUMBER ON BLUNT BODY DURING HYPERSONIC SPEEDS FOR REDUCING DRAG	D Smitha	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890
58	DESIGN AND OPTIMIZATION OF AN ISOGRID COMPOSITE CYLINDER USING FEA	M. yugender	AERO	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2019	ISSN(Print) : 2249-6890

59	“Evaluation of UBI Gajah for Bioethanol via Hydrolysis and Fermentation,”	A.N.R. Reddy	MECH	Malays. Appl. Biol.,	June 2019	(ISSN 0126/8643)
60	“Design Optimization and Analysis of Steam Boiler used in Thermal Power Plant”,	A.N.R. Reddy	MECH	International Journal of Research,	June 2019	2394-3629
61	“Optimization of Natural Convective Heat Transfer from Inclined Narrow Plates,	A.N.R. Reddy	MECH	International Journal of Research, vol. 8,	June 2019	2394-3629
62	Experimental Investigation Design and Analysis of the Discharge Valve in Reciprocating Compressor for Transcritical CO2 Refrigeration,	A.N.R. Reddy	MECH	International Journal of Management, Technology and Engineering, vol. 9,	June 2019	ISSN NO: 2249-7455
63	Performance of Multi-Fuel Engine	A.N.R. Reddy	MECH	International Journal of Research, vol. 8,	June 2019	2394-3629
64	Mechanical properties of Randomly oriented carbon - sansevieria trifasciata fiber epoxy composites	Sandhya Rani Borukati	MECH	IJRtE	Nov-19	2277-3878 (Online)
65	Development and charecterization of Natural fiber Carbon fiber reinforced Hybrid composite material.	Sandhya Rani Borukati	MECH	Elsevier	2019	

66	Analysis of upper body ergonomic parameters on commuter motorbike users	B Jain A R Tony	MECH	Journal of Transport and Health (Elsevier)	2020	ISSN: 0972-978X
67	Simulation of L-4 lumbar spine model of motorist exposed to vibration from speed hump	B Jain A R Tony	MECH	Journal of Orthopaedics (Elsevier)	2020	ISSN: 0972-978X
68	Influence of Vibroisolator Attachment for A Jackhammer to Reduce Vibration Discomfort	B Jain A R Tony	MECH	Trends in Mechanical and Biomedical Design, Lecture Notes in Mechanical Engineering (Springer)	2020	
69	Static Deformation Analysis with and Without of Piezo-electric Material Attachment in Hydraulic Suspension System	B Jain A R Tony	MECH	Trends in Mechanical and Biomedical Design, Lecture Notes in Mechanical Engineering (Springer)	2020	
70	Power Generation from Hydraulic Shock Absorber Using Piezoelectric Material	B Jain A R Tony	MECH	Trends in Mechanical and Biomedical Design, Lecture Notes in Mechanical Engineering (Springer)	2020	
71	Optimization of WEDM machining process parameters with Modified TLBO method	O.Y. VENKATA SUBBA REDDY	MECH	Mukt Shabd Journal	2020	(ISSN NO : 2347-3150)
72	Optimization of Diesel Engine Performance by Bio Diesel Using Taguchi and Grey Relational Analysis	O.Y. VENKATA SUBBA REDDY	MECH	Mukt Shabd Journal	2020	(ISSN NO : 2347-3150)

73	Optimization of WEDM machining process parameters with Modified TLBO method	V.Gopala Krishna	MECH	Mukt Shabd Journal	2020	(ISSN NO : 2347-3150)
74	Optimization of WEDM machining process parameters with Modified TLBO method	Soma Vivekanada	MECH	Mukt Shabd Journal	2020	(ISSN NO : 2347-3150)
75	FINFET operational amplifier with low offset noise and high immunity to electromagnetic interference	Senthilkumar, V.M., Muruganandham, A., Ravindrakumar, S., Gowri Ganesh, N.S.	IT	Journal Microprocessors and Microsystems, Elsevier	2019	ISSN: 0141-9331
76	Intelligent exhaustion rate and stability control on underwater wsn with fuzzy based clustering for efficient cost management strategies	M Umamaheswari	IT	<u>Information Systems and e-Business Management</u>	2019	1617-9846
77	Intelligent exhaustion rate and stability control on underwater wsn with fuzzy based clustering for efficient cost management strategies	M Umamaheswari & Dr.N Rengarajan	IT	Information Systems and e-Business Management	2019	1617-9846
78	<u>Fleet Management and Vehicle Routing in Real Time Using Parallel Computing Algorithms</u>	Dr.A.Mummoorthy	IT	Soft Computing and Signal Processing, Springer, Singapore	2019	
79	Revenue of Limit for cloud agent in cloud computing	M.Divya Rao, Vazralu.M	IT	Revenue of limit for cloud agent for cloud computing	2020	

80	Loadability Enhancement using Improved Wind Driven Optimization Algorithm	karimulla peerla shaik	EEE	Journal of Green Engineering (JGE)	2019	ISSN: 1904-4720 (Print)
81	A novel approach to solve optimal power flow problem	karimulla peerla shaik	EEE	International Information and Engineering technology Association	2019	
82	A Day without using Internet	Dr. I. J. Raghavendra	MBA	ZENITH International Journal of Multidisciplinary Research	Jun-19	<u>ISSN 2231-5780</u>
83	“Internal Marketing in the Banking Sector: A study on Perceptions of Employees in State Bank of Hyderabad”	Dr. Naveen Kumar Gurram	MBA	ZENITH International Journal of Multidisciplinary Research	Jun-19	<u>ISSN 2231-5780</u>
84	“Principal Factors of Service Quality: A Study of Selected Banks in India.”	Dr. Vaishali Pagaria	MBA	Journal of Interdisciplinary Cycle Research	Jun-19	(ISSN: 0022-1945)
85	A Day without using Internet	Raju Rathipelli	MBA	ZENITH International Journal of Multidisciplinary Research	Jun-19	<u>ISSN 2231-5780</u>

3.4.4 Number of books and chapters in edited volumes / books published per teacher during last four year

Sl. No.	Name of the teacher	Title of the book/ chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Month and Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
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1	Dr. VSK Reddy	Advances in Intelligent Systems and Computing	Extraction of Key frames using Rough Set Theory for Video Retrieval	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
2	Dr. VSK Reddy	Advances in Intelligent Systems and Computing	Retrieval of Video Contents based on Deep Parameter Analysis using Machine Learning	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
3	Dr. VSK Reddy	Advances in Intelligent Systems and Computing	Highly refined HOF model and Invariant HOG Descriptors for Video classification	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
4	Dr. V.M. Senthil Kumar	Advances in Intelligent Systems and Computing	A Hybrid Full adder design Using Multigate Devices Based on XOR/XNOR Logic	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
5	Dr. V.M. Senthil Kumar	Advances in Intelligent Systems and Computing	Low Power Less Leakage Operational Transconductance Amplifier (OTA) Circuit Using	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.

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6	Dr. Mallikarjuna LK	Advances in Intelligent Systems and Computing	Highly refined HOF model and Invariant HOG Descriptors for Video classification	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
7	Anantha Guptha M.	Advances in Intelligent Systems and Computing	A Hybrid Full adder design Using Multigate Devices Based on XOR/XNOR Logic	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
8	Anantha Guptha M.	Advances in Intelligent Systems and Computing	Low Power Less Leakage Operational Transconductance Amplifier (OTA) Circuit Using FinFET	Proceedings of ICSCSP 2019, Volume 1	Soft Computing and Signal Processing	International	Mar-20	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Nature Singapore Pte Ltd.
9	Dr.D.Sujatha	Advances in Intelligent Systems and Computing	Examining streaming data on twitter hash tags with relevance to social problems	Examining streaming data on twitter hash tags with relevance to social problems	International Conference on Soft Computing and Signal Processing(ICSCSP-2018)	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series

10	Dr.S.Shanthi	Advances in Intelligent Systems and Computing	Examining streaming data on twitter hash tags with relevance to social problems	Examining streaming data on twitter hash tags with relevance to social problems	International Conference on Soft Computing and Signal Processing.	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
11	Dr.S.Shanthi	Advances in Intelligent Systems and Computing	Recognition of botnet by examining link failure in cloud network by exhausting CANFES classifier approach	Recognition of botnet by examining link failure in cloud network by exhausting CANFES classifier approach	International Conference on Soft Computing and Signal Processing.	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
12	Dr.V.Chandrashekar	Advances in Intelligent Systems and Computing	A Novel Text-to-Image Transposition Protocol for Encoding and Decoding Data in the Presentation Layer of ISO-OSI Reference Model for Enhanced Security	A Novel Text-to-Image Transposition Protocol for Encoding and Decoding Data in the Presentation Layer of ISO-OSI Reference Model for Enhanced Security	International Conference on Soft Computing and Signal Processing.	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
13	Dr.V.Chandrashekar	Advances in Intelligent Systems and Computing	Recognition of Botnet By Examining Link Failures in Cloud Network by Exhausting Canfes Classifier Approach	Recognition of Botnet By Examining Link Failures in Cloud Network by Exhausting Canfes Classifier Approach	International Conference on Soft Computing and Signal Processing.	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series

14	Dr.V.Chandrasekhar	Advances in Intelligent Systems and Computing	Examining Streaming Data on Twitter Hash Tags with Relevance to Social Problems	Examining Streaming Data on Twitter Hash Tags with Relevance to Social Problems	International Conference on Soft Computing and Signal Processing,	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
15	Dr. S. Nagendra Prabhu	Advances in Intelligent Systems and Computing	Examining Streaming Data on Twitter Hash Tags with Relevance to Social Problems	Examining Streaming Data on Twitter Hash Tags with Relevance to Social Problems	International Conference on Soft Computing and Signal Processing,	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
16	G.Ravi	Advances in Intelligent Systems and Computing	Sentimental Analysis on Twitter Data Using Hadoop with Spring Web MVC	Sentimental Analysis on Twitter Data Using Hadoop with Spring Web MVC	International Conference on Soft Computing and Signal Processing	International	Jun-19	ISSN 2194-5357 ISSN 2194-5365 (electronic)/ ISBN 978-981-13-3599-0 ISBN 978-981-13-3600-3 (eBook)	MRCET	Springer Series
17	P.Bikshapathy	Recent Challenges in Engineering & Tech	Equipment Test Life Cycle Management System	Equipment Test Life Cycle Management System	National Conference on Recent Challenges in Engineering and Technology	National	Apr-19	ISBN:978-93-5351-170-8	MRCET	

3.5.1 Revenue generated from consultancy and corporate training during the year (INR in Lakhs):

Academic Year:2019 -2020

S.No	Names of the Consultants/ corporate Trainers	Name of Consultancy project / corporate training	Consulting/Sponsoring agency with contact details	Revenue generated (amount in rupees)	Total revenue generated in rupees
1	Glossary Soft Tech ,CSE	Indexing and Navigating hyperlinks using a focused Web Crawler	Glossary Soft Tech Pvt. Ltd, Alluri trade center ,5th floor ,406/2 Beside usha mullapudi arche ,kphb main road- 500072 9581211810	3.50 Lakhs	26,65,000
2	Coign Consultants ,CSE	Fake News Detection Using Machine Learning Algorithms	Coign Consultants Pvt. Ltd., S11, 3rd Floor, Ballad Estates, Opp. David Memorial High School, Tarnaka, Secunderabad, Telangana 500017 9948604222	2.50Lakhs	
3	Dr.N.S.Gowri Ganesh	Heart disease prediction using Machine Learning	Malla Reddy Health City	2.0 Lakhs	
4	Prof V Ravi,AERO	3D PRINTING OF FUEL NOZZLE FOR JET ENGINES	DIGI MIND Technologies	8 Lakhs	
5	Prof AG SARWADAE,AERO	CFD code development for gas turbine guide vanes and its aerodynamics profile analysis	Turbo Engineering Services	5.75 Lakhs	
6	Dr.R.Roopachandrika	Telugu to English conversion of image text using Optical Character Recognition technique	VN Career Solutions	2 Lakhs	
7	Dr. Jain BR Tony,Mech	Design & Development of Mobile Robot Gripper Using 3D Printing Technology	ATALON Product Center Pvt. Ltd.	1.9 Lakhs	
8	Dr.S.Srinivasa Rao,ECE	IOT base Home Automation System	Embedded RF Technologies	65,000	
9	Dr.B.Jyothi,ECE	Medical Image Segmentation	Narayana HrudayalayaHospitals,Hyderabad	35,000	

3.5.2 *Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the year*

Q_nM

Data Requirement:

- Facility developed and amount spent

- Training programmes for teachers for undertaking consultancy
- Training programmes for staff for supporting consultancy activities.
- Total expenditure on training teachers and staff or consultancy

Facility	Amount involved	Name of the Trainer-Consultants	Name of the facility and department	Name of Training	Consulting / Sponsoring agency with Contact details	Amount spent (INR)	Name of the Trainer-Consultants	Name of the facility and department	Name of Training	Consulting/Sponsoring agency with Contact details	Amount spent (INR)	Expenditure For Teachers	Expenditure For Staffs	Total Expenditure
Training on Machine Learning	60000	Mr.Gagandeep Thakur	Python Programming	Training on Machine learning	Cognitive creators	60000	Mr.Naveen Kumar	Python Programming	Hands on Machine learning using python programming	Cognitive creators	20000	60000	20,000	80000
Centre of Excellence in IoT	90,000	T. Ankith	Centre of Excellence in IOT LAB	Training on IOT and its Applications	UTS Technology	55,000	P.Swetha	Centre of Excellence in IOT LAB	Training on IOT and its Applications	UTS Technology	25,000	55,000	25,000	80,000
VLSI&Embedded Lab	45000	N.Ramesh	VLSI LAB	Embedded System Design Flow on Zynq using Vivado	COREEL Technologies	40,000	P.Anitha	VLSI LAB	Embedded System Design Flow on Zynq using Vivado	COREEL Technologies	20,000	40,000	20,000	60,000
Centre of Excellence in IoT	90,000	Dr.Roopa Chandrika	Centre of Excellence in IOT LAB	Training on IOT and its Applications	VN Career Solutions	55,000	Dr.Roopa Chandrika	Centre of Excellence in IOT LAB	Training on IOT and its Applications	VN Career Solutions	23,000	55,000	23,000	78,000
Centre for Design	55,000	Dr. Trisekhar	Mechanical Engineering	Advanced Design Technologies	Winwill Technical Services	48,000	Dr. Trisekhar	Mechanical Engineering	Advanced Design Technologies	Winwill Technical Services	21,500	48,000	21,500	69,500

3.6.1
Q1M

Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

Describe the impact of extension activities in sensitizing students to social issues and holistic development within a maximum of 500

	words
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- Awareness about Rash Drive, without Helmet etc to our CSE Students with association from Traffic Police Department
- All the extension activities have given the participants exposure to cases of unjust deprivation and have created strong motivation for alleviation of this injustice. Apart from this the significance of clean surrounding, hygiene, sanitation in the neighborhood, garbage disposal , and sensitizing the community at large to these vital issues
- All these initiatives have gone a long way in holistic development personality of the participants of these programmes.
- Blood donation camp strengthens the sense of empathy and compassion among donors and also instills in them a sense of commitment and ethical responsibility. Programmes on women empowerment creates awareness among girl students of their condition and their rights, and among boys a sensitivity towards problems of women, leading to lessening of gender bias and patriarchal prejudices. All this leads to informed, balanced and responsible citizenship.
- The various activities and multiple issues of social, political and economic significance are discussed and dealt with in order to create sensitivity and understanding among students and contribute to balanced development of their personality, so that committed and ethically informed citizenship is created.
- Social Service by Dept of CSE to Aashri Orphan Society- Donated Rice Bags, Books, Pens, Pencils etc to the Kids By the Faculty of CSE.

The student volunteers visit neighboring localities and conduct various activities regularly. Details of a few programmes are given below:

- Activities like Swatch Bharath (from 2016 to2020) is conducted in Nearby Villages and created awareness program on health and other responsibilities
- Medical camp was conducted in Maisammaguda village. After the survey in the village, ortho problems and body pains are identified as the major problems. Medical camp with orthopedic doctors is arranged and medicines.
- Harithaharam (Tree plantation) was done at Bahadurpally, Dhulapally, Gundla Pochampally. Planted thousands of samplings to make green & clean culture.
- All the extension activities have given the participants exposure to cases of unjust deprivation and have created strong motivation for alleviation of this injustice. Apart from this the significance of clean surrounding, hygiene, sanitation in the neighborhood, garbage disposal, and sensitizing the community at large to these vital issues. All these initiatives have gone

a long way in holistic development personality of the participants of these programmes.

- Tree plantation was done at Bahadurpally, Dhulapally, Gundla Pochampally. Planted thousands of samplings to make green & clean culture.
- 15 Days Swachhta Drive was organized by NSS unit of Ramanujan College from 2nd August 2019 to 15th August 2019 during which several cleanliness activities were initiated in and off campus. Beginning from taking a Swachhta Pledge, a team of 25 volunteers was formed and were allocated responsibilities to clean college premises along with adjoining areas. Awareness campaigns were brought off in Kalkaji Slums. From cleaning the slums, to taking a rally on cleanliness for creating awareness, NSS volunteers did all they could to contribute in the purity of the surroundings.
- The NSS unit functions under the guidance of a Faculty programme officer. The NSS wing of college focuses on providing access and opportunities to underprivileged in health and education.

3.6.2	<i>Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognized bodies during the year:</i>
Q_nM	<p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the activity • Name of the Award/recognition • Name of the Awarding government/ recognized bodies • Year of the Award

3.6.2	Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during the year:						
Note:	Kindly fill your relevant data in the below columns						
S.No	Dept. Name	Date of Award	Name of the activity	Name of the Faculty/Staff	Name of the Award/ recognition	Name of the Awarding government/ recognized bodies	Year of the Award
1	CSE	6/12/2019	Academic Leadership	Dr. D Sujatha	Academic Leadership	Kasetsart University, Chatuchak, Bangkok, Thailand	2019
2	CSE	6/12/2019	Researcher Award	Dr. S Shanthi	Young Researcher Award	Kasetsart University, Chatuchak, Bangkok, Thailand	2019
3	CSE	7/15/2019	Best Researcher Award	Dr.V.Chandrasekar	Best Researcher Award	by International Association for Science and Technical Education	2019

4	CSE	6/12/2019	Young Researcher Award	Dr.V.Chandrasekar	Young Researcher Award	Kasetsart University, Chatuchak, Bangkok, Thailand	2019
5	CSE	8/8/2019	Certified	Dr.S.Nagendra Prabu	Juniper Networks Certified Internet Specialist	Juniper Networks Technical Certification Program JUNOS Security Track	2019
6	CSE	10/22/2019	Young Scientist Award	Dr.S.Nagendra Prabu	Young Scientist Award	Vedant Academics Bangkok Awards	2019
7	CSE	10/22/2019	Young Scientist Award	Dr.Thayyaba Khatoon Mohammed	Young Scientist Award	Vedant College of Engineering & Technology,	2019
8	ECE	09-04-2019	Best Faculty in Engineering	Dr V M Senthil kumar	Best Faculty in Engineering	LEAD	2019
9	ECE	08-08-2019	Outstanding women in engineering	Dr B Jyothi	Outstanding women in engineering	South indian asian	2019
10	ECE	05-05-2019	Distiguished Professor	Dr M Sucharitha	Distiguished Professor	Vedantha Academics	2019
11	ECE	20-12-2019	Paper Presentation	K Mallikarjuna Lingam	Paper Presentation	LUC	2019
12	ECE	18-11-2019	Paper Presentation	V Kiran kumar	Paper Presentation	GITAM	2019

Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government recognised bodies during the year:

Kindly fill your relevant data in the below columns

Dept. Name	Date of Award	Name of the activity	Name of the Student	Name of the Award/ recognition	Name of the Awarding government/ recognized bodies	Year of the Award
CSE	6/12/2019	Hackathon	Thirumal Muthyala	Appreciation Award	Govt. of India & AICTE	2019
Aeronautical Engg	8/8/2019	Technical quiz	AYESHA BEGUM	II prize	MRITS	2019
Aeronautical Engg	7/20/2019	Mock interview	NIVESH GAUTHAM	I prize	MRECW	2019
ECE	16/08/2019	Paper Presentation	Chepuri Mounika	Paper Presentation	JNTUH	2019

ECE	08-09-2019	Paper presentation	Chirasambar Shivani	Paper presentation	MRECW	2019
ECE	13/09/2019	innovative project	Jangam Shiva Prasad	innovative project	JNTUH	2019
ECE	09-06-2019	Debugging	Ch Vishnu Vardhan	Debugging	GRIET	2019
ECE	08-09-2019	Code mania	Sreesha Kovuri	Code mania	MRECW	2019

3.6.3 Q_nM	<p><i>Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the year (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs):</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> Name and number of the extension and outreach programs Name of the collaborating agency: Non- government, industry, community with contact details
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3. Research, Innovations and Extension

3.6 Extension Activities

3.6.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., during the year (including Government initiated programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. and those organised in collaboration with industry, community and NGOs)

Sr No	Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated in such activities	Number of students participated in such activities
1	Blood Donation Camp	NSS-MRCET	2019-2020	12	276
2	Swachh Bharat Summer Camp	NSS-MRCET	2019-2020	23	309
3	Yoga	NSS-MRCET	2019-2020	65	354
4	Plantation Awareness Programme	NSS-MRCET	2019-2020	26	145
5	Cyclathon - 10k Bicycle Rally	NSS-MRCET	2019-2020	8	110
6	Medical Camp	NSS-MRCET	2019-2020	12	105
7	Seminar On Gender Sensitization	NSS-MRCET	2019-2020	6	205
8	5k Walk For Equality & Unity	NSS-MRCET	2019-2020	10	198
9	Medical Camp	NSS-MRCET	2019-2020	8	150
10	Swachh Bharat	NSS-MRCET	2019-2020	35	132
11	Awareness Class On Cleanliness And Environment Protection Through Videos	NSS-MRCET	2019-2020	8	146

3.6.4 QnM	<p><i>Average percentage of students participating in extension activities listed at 3.6.3 above during the year</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Name of the activity • Name of the scheme • Year of the activity
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3.6.4 Average percentage of students participating in extension activities listed at 3.6.3 above during the last 5 years

Sr No	Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of teachers participated in such activities	Number of students participated in such activities
1	Blood Donation Camp	NSS-MRCET	Health Scheme	2019-2020	12	276
2	Swachh Bharat Summer Camp	NSS-MRCET	SWACHH BHARAT	2019-2020	23	309
3	Yoga	NSS-MRCET	Health Scheme	2019-2020	65	354
4	Plantation Awareness Programme	NSS-MRCET	SWACHH BHARAT	2019-2020	26	145
5	Cyclothon - 10k Bicycle Rally	NSS-MRCET	SWACHH BHARAT	2019-2020	8	110
6	Medical Camp	NSS-MRCET	Health Scheme	2019-2020	12	105
7	Seminar On Gender Sensitization	NSS-MRCET	National Service Scheme	2019-2020	6	205
8	5k Walk For Equality & Unity	NSS-MRCET	National Service Scheme	2019-2020	10	198
9	Medical Camp	NSS-MRCET	Health Scheme	2019-2020	8	150
10	Swachh Bharat	NSS-MRCET	SWACHH BHARAT	2019-2020	35	132
11	Awareness Class On Cleanliness And Environment Protection Through Videos	NSS-MRCET	SWACHH BHARAT	2019-2020	8	146

3.7.1 QnM	<p><i>Number of Collaborative activities in the year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work</i></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> • Title of the collaborative activity • Name of the collaborating agency with contact details
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	<ul style="list-style-type: none"> • Source of financial support • Year of collaboration • Duration • Nature of the activity
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3.7.1 Number of Collaborative activities in the year for research/ faculty exchange/ student exchange/ internship/ on –the-job training/ project work

Nature of activity	Participant	Source of financial support	Duration in day	Nature of the activity	Collaborating agency with contact details
Internship	P Vijayeshwara Reddy	CDK Global	365	Software development	CDK Global
Internship	B Vinaya	Virtusa	182	Software development	Virtusa
Internship	Abhishek Negi	InfyHack	90	Software development	InfyHack
Internship	Abhishek Negi	Techinoray	90	Software development	Techinoray
Internship	Bala Sai	Techinoray	90	Software development	Techinoray
Internship	B Rekha	Techinoray	90	Software development	Techinoray
Internship	Bindu Sai	Techinoray	90	Software development	Techinoray
Internship	Sirisha	Techinoray	90	Software development	Techinoray
Internship	B Shivanandam	Techinoray	90	Software development	Techinoray
Internship	Manogna Reddy	Techinoray	90	Software development	Techinoray
Internship	CH Rohit	Quantel	90	Software development	Quantel
Internship	Vandana B	Quantel	90	Software development	Quantel
Internship	Nikhila Ch	Quantel	90	Software development	Quantel
Internship	Akshay Kumar	Delloitte	90	Software development	Delloitte
Internship	Harshavardhan	Coign	90	Software development	Coign
Internship	Abhishek Patel	IIT Bilai	30	Software development	IIT Bilai
Internship	Suraj Singaneka	IIT Bilai	30	Software development	IIT Bilai
Internship	Akhil	IIT Bilai	30	Software development	IIT Bilai
Industrial Visit	Students of Aeronautical Engineering	Self	2 days	Industrial Visit	Nuclear Fuel Complex, Hyderabad

Internship	K.Bhanu Sai Pradeep	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	MV Sai Srikar	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Naga Naresh Babu Dasari	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	M.Rakesh	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	M.Bhupal reddy	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K. Venkat Narayana	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Mallapu Bhavani Prasad	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	L. Devender	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K. Anoop Kumar	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K. Venkatesh	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K. Sai Lohith	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	S. Pranay	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Potluri Likhitha	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Kolipakalaxmi naga kavya	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	M.pallavi	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	M. Bhavani	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K.Purushotham Reddy	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K.Rakesh	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K.Uday Kumar Reddy	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	K N S Dattabhishek	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Nagoju Sai Tarun Chary	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Pechetti Sai Vamsi	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	P. Sai Kiran	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Vadugu Vijay	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	P.Sai kumar Reddy	HSL, Visakhapatnam	30	Internship	HSL, Visakhapatnam
Internship	Vamshi	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	Pavan Supreeth	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	Rohit Dasari	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra

Internship	Saikumar	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	B Pavan	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	Nagaraj	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	Arjun Kandi	Mahindra & Mahindra	7	Internship	Mahindra & Mahindra
Internship	Anudeep Neelam	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	P. Ram Kumar	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	S.Durga Prasad	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	S. Vazeed	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	Mahisha Paul	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	M.Sai Srihari chary	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	Mohd Raheem	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	S.Krishna Sai Kaushik	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	K.Madhoolika	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	Sk. Ahmed Ali Hussain	Hindustan Shipyard Ltd	15 days	Internship	Hindustan Shipyard Ltd
Internship	Chandhan Ram	CITD	7	Internship	CITD
Internship	D.Mahipal	CITD	7	Internship	CITD
Internship	D.Goutham	CITD	7	Internship	CITD
Internship	B Anthony Reddy	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	D Sai Kumar	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	K Vishwas Deep	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	K Arjun	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	Naram Ravi Teja	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	Shaik Shageel	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	T Srikanth	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions
Internship	P Mahaboob Pasha	Adriotec Engineering and Solutions	7	Internship	Adriotec Engineering and Solutions

3.7.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the year (only functional MoUs with ongoing activities to be considered)

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List of the actual activities under each MoU	Number of students/teachers participated under MoUs
PSG College of Technology, Coimbatore	PSG College of Technology, Coimbatore	24-07-2019	1 year	Characterization of AISI 4340 Steel	9
Annamalai University, Chidambaram	Annamalai University, Chidambaram	28-11-2019	1 year	Wear behavior of composite Materials	5
IIT GUWAHATI	IIT GUWAHATI	24-09-2019	1 year	Tribology Laboratory	2
IIT GUWAHATI	IIT GUWAHATI	24-09-2019	1 year	Material Science Laboratory	2
NRDC, Department of Scientific and Industrial Research (DSIR), Govt. of India.	NRDC	18-06-2019	1 year	Mineral Ore Characterization	15
Business Incubation Centre – MSME, Govt. of India.	MSME	28-06-2019	1 year	Solar Tree for generation of electricity	14
National Aerospace Laboratories (NAL), Bangalore.	NAL	19-07-2019	1 Year	Shape Memory Alloy for space applications	14
ESOL Examinations (BEC) University of Cambridge, UK.	Cambridge University Press	23-08-2019	1 year	English	14
Zensar Technologies for the Technology Transfer	Zensar Technologies	25-09-2019	1 month	Software	10
Mahindra & Mahindra	Mahindra & Mahindra	15-10-2019	6 Months	Internship for IV years	15
Lincoln University, Malaysia	Lincoln University, Malaysia	11-11-2019	3 Months	Student Exchange	7
University Malaysia Sarawak (UNIMAS) – Malaysia	University Malaysia Sarawak (UNIMAS) – Malaysia	06-12-2019	3 Months	Student Exchange	4