

### 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&amp;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&amp;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&amp;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;"><b>Facilities:</b></p> <hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> <li>• Systems with high speed internet</li> <li>• Library with digital access</li> <li>• Conferences, Seminars and skill development trainings.</li> <li>• Center for excellence in Robotics and mechatronics.</li> <li>• Center for Innovation, Incubation and Entrepreneurship.</li> <li>• SIRO recognized research center.</li> <li>• MSME recognized Business Incubator.</li> <li>• State of the art laboratories with computerized equipments.</li> <li>• Well qualified faculty.</li> </ul> <p><b>Functions of Research and Development Cell:</b></p> <ul style="list-style-type: none"> <li>• To create awareness and opportunities in Research and Development among the students &amp; faculty and to create Research and Development atmosphere in every department</li> <li>• 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</li> <li>• To encourage staff members and students to publish technical papers for publishing in National and reputed International Conferences/Journals</li> <li>• To undertake research activities and development projects offered by agencies such as ISRO, DRDO, CSIR, DST, AICTE, UGC, etc.</li> <li>• 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.</li> <li>• To assist for applying and getting funds for conducting Seminar/Workshop/FDP from various funding agencies</li> <li>• To work with various departments to establish and develop faculty research</li> </ul>

	<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 &amp; 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 &amp; NRDC, Govt of India, New Delhi and T-Hub, Govt of Telangana for innovation and entrepreneur related activities, training programmes and collaborative projects.</p>
--	--

<b>3.1.2</b>	<b><i>The institution provides seed money to its teachers for research</i></b>
<b>Q<sub>n</sub>M</b>	<p>3.1.2.1 : The amount of seed money provided by institution to its teachers for research year wise during the year (INR lakhs):</p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Name of the teacher getting seed money</li> <li>• The amount of seed money</li> <li>• Month and Year of receiving grant</li> <li>• Duration of the grant</li> </ul>

### **Academic Year: 2015 -2016**

<b>S.No</b>	<b>Name of the teacher getting seed money</b>	<b>Amount of seed Money</b>	<b>Month and Year of receiving grant</b>	<b>Duration of the grant</b>
1	M.Ramanjaneyulu	10000	August,2015	365
2	Dr.R.Bhrudadeswar	10000	2015	365
3	Dr.K.KailashaRao	7000	2015	365
4	Mr.G.Ravi	5000	2015	365
5	Padmaja Bandreddi	5000	2015	365
6	M. Vazralu	5000	Jul-15	365
7	P. Srinivasa Rao	5000	Jun-16	365
8	B.Jyothi	15000	August, 2015	365
9	M.Anantha Guptha	15000	March,2015	365
10	P.Swetha	10000	Febraury,2015	365
11	Mr. D.V. Subba Rao	60000	Jul-15	182
12	Mr. Damodar Reddy	45000	Jun-15	182
13	Prof.G.Naveen Kumar	7000	Jun-15	365
14	Mr.T.Satish Kumar	6000	Nov-15	365

15	Mr.IJ Raghavendra	6000	May-15	365
16	Ms.G.Archana	5000	June-215	365

<b>3.1.3</b> <b>Q<sub>n</sub>M</b>	<p><b><i>Number of teachers awarded national / international fellowship for advanced studies/research during the year:</i></b></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Name of the teacher awarded national/international fellowship for advanced studies /research</li> <li>• Name of the award</li> <li>• Month and Year ofAward</li> <li>• AwardingAgency</li> </ul>
---------------------------------------	---

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. Amaranadha Reddy	Institute Fellowship	May-15	UNIMAS
2	Dr. Amaranadha Reddy	AICTE - Fellowship	May-15	AICTE
3	Dr. Meera Saheb	AICTE- Fellowship	May-14	AICTE
4	Dr.V.Pandurangaiah	Research Award	Apr-15	Acharya Nagarajuna University

<b>3.2.1</b> <b>Q<sub>n</sub>M</b>	<p><b><i>Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in Lakhs):</i></b></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Name of the Project/ Endowments,Chairs</li> <li>• Name of the PrincipalInvestigator</li> <li>• Department of PrincipallInvestigator</li> <li>• Month and Year ofAward</li> <li>• Fundsprovided</li> <li>• Duration of theproject</li> </ul>
---------------------------------------	---

	<ul style="list-style-type: none"> <li>Name of the Project/ Endowments,Chairs</li> </ul>
--	--

Metric No.		Key Indicator - 3.2 Resource Mobilization for Research				
3.2.1 QnM		<i>Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in Lakhs):</i>				
<b>2015-2016</b>						
S.NO	Nature of the Project	Title 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.	Industry Sponsored Projects	Design of the precision agriculture system using IoT	365 Days	Web Cognize Pvt Ltd	640000	300000
2.	Industry Sponsored Projects	Smart City Dynamic Transport system using IoT	365 Days	Coign Consultants Pvt Ltd	620000	300000
3.	Industry Sponsored Projects	Innovative Techniques or Mining Databases using Timestamps	365 Days	Saky Technologies	615000	300000
4.	Project Sponsored by university	Cloud Computing	14 Days	AICTE	500000	500000
5.	Industry Sponsored Projects	Text Mining The Contributors To Rail Accidents	365 Days	VN Career Solutions	250000	250000
6.	Industry Sponsored Projects	Prediction Of Loan Status In The Commercial Bank Using Machine Learning Classifier	365 Days	Learn IT Hub, Hyderabad	130000	130000
7.	Minor Project	Support for Entrepreneurial and Managerial Development of SMEs through Incubators	730 Days	MSME	2972000	2972000
8.	Industry Sponsored Projects	Developing Device Drivers for the Spansion SPI Flash Memory Interfaced to Cortex M3 PROCESSOR	365 Days	Embedded RF Technology	85000	55000

9.	Industry Sponsored Projects	Svasa Breathable Air (Helmet)	186 Days	3Dfy – 3D Printing Services	160000	142000
10.	Industry Sponsored Projects	Solar Seed Planting Machine	152 Days	AZTEC Process Automation	181000	166000

<b>3.2.2</b> <b>QnM</b>	<b>Number of teachers having research projects during the year:</b>			
<b>S.No</b>	<b>Name of the Principal Investigator</b>	<b>Department of Principal Investigator</b>	<b>Academic Year</b>	<b>Number of Research Projects</b>
1	Dr.D.Sujatha	CSE	2015-2016	2
2	Mr.Jayapal	CSE	2015-2016	1
3	Mr.Chandrasekar Reddy	CSE	2015-2016	1
4	M.Vazralu	IT	2015-2016	1
5	P.Srinivasa Rao	IT	2015-2016	1
6	Dr.Srinivasa Rao	ECE	2015-2016	1
7	M Ramanjaneyulu	ECE	2015-2016	1
8	Dr.DevaPrasad	MECH	2015-2016	1
9	Mr.D.Damodara Reddy	MECH	2015-2016	1

<b>3.2.3</b> <b>QnM</b>	<b>Number of teachers recognised as research guides</b>  <b>Data Requirement:</b> <ul style="list-style-type: none"> <li>List of teachers recognized as research guides</li> </ul>
----------------------------	--

### Academic Year:2015 -2016

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 S Srinivasa Rao	KLU, Vijayawada	ECE

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

**2015 – 2016**

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	365 Days	Design of the precision agriculture system using IoT	640000	Web Cognize Pvt Ltd	2015-2016	CSE
2	Dr.D.Sujatha	365 Days	Smart City Dynamic Transport system using IoT	620000	Coign Consultants Pvt Ltd	2015-2016	CSE
3	Mr.Chandrasekar Reddy	365 Days	Innovative Techniques or Mining Databases using Timestamps	615000	Saky Technologies	2015-2016	CSE
4	Mr.Jayapal	14 Days	Cloud Computing	500000	AICTE	2015-2016	CSE
5	M.Vazralu	365 Days	Text Mining The Contributors To Rail Accidents	250000	VN Career Solutions	2015-2016	IT
6	P.Srinivasa Rao	365 Days	Prediction Of Loan Status In The Commercial Bank Using Machine Learning Classifier	130000	Learn IT Hub, Hyderabad	2015-2016	IT
7	Dr.Srinivasa Rao	730 Days	Support for Entrepreneurial and Managerial Development of SMEs through Incubators	2972000	MSME	2015-2016	ECE
8	M Ramanjaneyulu	365 Days	Developing Device Drivers for the Spansion SPI Flash Memory Interfaced to Cortex M3 PROCESSOR	85000	Embedded RF Technology	2015-2016	ECE
9	Dr.DevaPrasad	186 Days	Svasa Breathable Air (Helmet)	160000	3Dfy – 3D Printing Services	2015-2016	MECH
10	Mr.D.Damodara Reddy	152 Days	Solar Seed Planting Machine	181000	AZTEC Process Automation	2015-2016	MECH

<b>3.3.1</b>	<b>3.3.1 Institution has created an eco-system for innovations including Incubation Centre and other initiatives for creation and transfer of</b>
--------------	---

## 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 workshops.
- To arrange short-term tailor made programmes: Duration of 5 to 7 days for the benefit of professionals in various technical disciplines.

	<ul style="list-style-type: none"> <li>To arrange need based training programme in association with industries by MOU's.</li> </ul> <p><b>Some ongoing research</b></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"> <li>Smart Feeding system using IoT for Hydroponics farming DST, New Delhi</li> <li>Smart Remote Fault monitoring and diagnosis of solar power plant using Internet of Things DST, New Delhi</li> <li>Assessment of Impact of Digitization on socio-economic status in rural areas of Telangana State STRIDE, UGC</li> <li>Development of Telemedicine for Health Care Applications in Rural Areas STRIDE,UGC</li> <li>Smart Voting Machine(SVM) using Deep Learning Techniques, Research promotion scheme, AICTE</li> <li>Development of an IoT Based Azotemia and Kidney damage Detector Using Urinary Bladder Measuring Device and Machine Learning Approach ,SERB-CRG</li> </ul> <p>Some other initiatives include:</p> <ol style="list-style-type: none"> <li>Entrepreneurship meets.</li> <li>Visits to industries.</li> <li>Organization of Technofest (Exumberlandza)to foster creativity and innovation along with other creative contests.</li> <li>Project work for all students.</li> <li>Annual exhibits of Models and Innovative ideas of students on Founder's Day.</li> <li>Skill training to augment potential for start-ups through TBI</li> </ol>
--	---

<b>3.3.2</b>  <b>Q<sub>n</sub>M</b>	<p><b><i>Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development during the year:</i></b></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>Name of the workshops /seminars</li> <li>Number of Participants</li> <li>Date (From-to)</li> <li>Link to the activity report on the website</li> </ul>
---	--

**Academic Year : 2015 - 2016**  
**Workshop / Seminar - Conducted for the**  
**Academic Year 2015-2016**

S.No	Year	Name of the workshop/ seminar	Date From – To	Link to the Activity report on the website	No of Participants
1	2015	Introduction to Design of Algorithms	27 <sup>th</sup> April-30 <sup>th</sup> May, 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	56
2	2015	Workshop on Bluemix Enablement Session	27 <sup>th</sup> November, 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	62
3	2016	FDP on Cloud Computing	6-7, August, 2016	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	85
4	2015	Workshop on Introduction to Design of Algorithms-IIT KHARAGPUR	April 27 <sup>th</sup> -30 <sup>th</sup> May 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	50
5	2015	Faculty Development Programme on Quality Teaching & Research	June 12 <sup>th</sup> to 14 <sup>th</sup> 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	60
6	2015	Workshop on Planning Research Methods & Technologies Leading to Doctoral Level	November 25 <sup>th</sup> 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	58
7	2015	Virtualization,Storage computing	February 22 <sup>nd</sup> 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	40
8	2015	Workshop on Introduction to Design of Algorithms-IIT-BOMBAY	December 23 <sup>rd</sup> 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	80
9	2016	workshop on Recent Trends in Data Mining	11th June 2016	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	70
10	2015	Workshop on Android Application Development	Oct 14 <sup>th</sup> to 16 <sup>th</sup> 2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	75
11	2015	AICTE sponsored National Workshop on Voice of Ignited Souls	7-8,DEC,2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	60
12	2015	Under TECHIP -II Cloud computing	10-18,July,2015	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	55
13	2016	Workshop on Information security	25-28 february,2016	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	<b>45</b>
14	2016	Workshop On Big Data analyst	14th- 18 april,2016	<a href="https://mrcet.com/CSE_Events.html">https://mrcet.com/CSE_Events.html</a>	<b>57</b>
15	2015	Bluemix Enablement Session	27.11.15 to 27.11.15	<b>www.mrcet.ac.in</b>	<b>30</b>
16	2015	Workshop on Embedded Linux on Zynq -7000 SOC using Vivado	25-Sep-15	<a href="https://mrcet.com/ECE_Events.html">https://mrcet.com/ECE_Events.html</a>	52
17	2015	Workshop on Introduction to Design of Algorithms Conducted by IIT Kharagpur	27th April to 30th May 2015	<a href="https://mrcet.com/ECE_Events.html">https://mrcet.com/ECE_Events.html</a>	145
18	2015	ICCSPCIT-2015	18th -20th December 2015	<a href="https://mrcet.com/ECE_Events.html">https://mrcet.com/ECE_Events.html</a>	155

19	2016	Two Days Workshop on Embedded System Design	11-12 March, 2016	<a href="https://mrcet.com/ECE_Events.html">https://mrcet.com/ECE_Events.html</a>	160
20	2016	Two Days Workshop On Analog & Digital CMOS IC Design Flow Using Mentor Graphics EDA Tools	9-10 June, 2016	<a href="https://mrcet.com/ECE_Events.html">https://mrcet.com/ECE_Events.html</a>	65
21	2015	WEB TECHNOLOGIES	8 & 9 Aug	<a href="https://mrcet.com/AE_Events.html">https://mrcet.com/AE_Events.html</a>	120
22	2015	Geometric Dimensioning And Tolerances	19-Aug	<a href="https://mrcet.com/AE_Events.html">https://mrcet.com/AE_Events.html</a>	120
23	2015	Aeromodelling Workshop	3 & 4 Sept	<a href="https://mrcet.com/AE_Events.html">https://mrcet.com/AE_Events.html</a>	120
24	2016	3D Printing Workshop	4 & 5 March	<a href="https://mrcet.com/AE_Events.html">https://mrcet.com/AE_Events.html</a>	120
25	2015	Two Days Faculty Development Program on Application Oriented Teaching Methodologies	30 NOV– 1 DEC, 2015	<a href="https://mrcet.com/ME_gallery.html">https://mrcet.com/ME_gallery.html</a>	44
26	2015	Two days Training Program on MSME Sanctioned Projects	21-22, SEP, 2015	<a href="https://mrcet.com/ME_gallery.html">https://mrcet.com/ME_gallery.html</a>	38
27	2015	HR Summit	6 <sup>th</sup> August, 2016	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	165
28	2015	Organised a Two Day Workshop on “Leadership Skills for Aspiring Managers”	17 <sup>th</sup> - 18 <sup>th</sup> June 2016	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	180
29	2015	Guest Lecture on “Basics of Stock Market”,	9 <sup>th</sup> June, 2016	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	80
30	2015	Guest Lecture on “Event Management”	1 <sup>st</sup> July, 2016	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	85
31	2015	Conducted a Workshop on “Interview Process”	21 <sup>st</sup> Nov, 2015	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	120
32	2015	Organised a Workshop on “Overview Of Marketing”	7 <sup>th</sup> Nov, 2015	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	50
33	2015	Organised a Workshop on “Career Opportunities”	31 <sup>st</sup> October, 2015	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	95
34	2015	Conducted a Workshop on “Student Counseling”	9 <sup>th</sup> October, 2015	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	110
35	2015	Organised a Workshop on “Importance of Business Communication”	3 <sup>rd</sup> August, 2015	<a href="https://mrcet.com/MBA_Events.html">https://mrcet.com/MBA_Events.html</a>	120

36	2015	Organised Mock Interviews Session	27 <sup>th</sup> June, 2015	<a href="https://mrcet.com/MBA_Eventa.html">https://mrcet.com/MBA_Eventa.html</a>	62
37	2015	International Conference	18-19, December 2015	<a href="https://mrcet.com/MBA_Eventa.html">https://mrcet.com/MBA_Eventa.html</a>	60

<b>3.4.1</b>  <b>QnM</b>	<p><b><i>The Institution ensures implementation of its stated Code of Ethics for research through the following:</i></b></p> <ol style="list-style-type: none"> <li><i>1. Inclusion of research ethics in the research methodology coursework</i></li> <li><i>2. Presence of Ethics committee</i></li> <li><i>3. Plagiarism check through software</i></li> <li><i>4. Research Advisory Committee</i></li> </ol> <p>Options:</p> <ol style="list-style-type: none"> <li><i>A. All of the above</i></li> <li><i>B. Any 3 of the above</i></li> <li><i>C. Any 2 of the above</i></li> <li><i>D. Any 1 of the above</i></li> <li><i>E. None of the above</i></li> </ol>
--------------------------------	--

3.4.1: The Institution ensures implementation of its stated Code of Ethics for research through the following:		
<b>Provide upload the URL having code of ethics</b>	<b>Whether Colleges have been provided access to plagiarism detecting software (Yes/No)</b>	<b>Mechanism for detecting plagiarism</b>
<a href="https://mrcet.com/CodeofEthics.html">https://mrcet.com/CodeofEthics.html</a>	Yes	DrillBit Anti Plagiarism software <a href="https://www.drillbitplagiarism.com/index.html">https://www.drillbitplagiarism.com/index.html</a>

<b>3.4.2</b>	<b>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:</b>
<b>QnM</b>	<b>File Description(Upload)</b> <ul style="list-style-type: none"> <li>• URL to the research page on HEI website</li> <li>• List of PhD scholars and their details like name of the guide , title of thesis, month and year of registration etc</li> </ul>

#### 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
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
					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
					Jaganadh Jadav	2016	2020	Automatic Semantic Segmentation Of Remote Sensing Data For Agriculture

<b>3.4.3</b> <b>Q<sub>n</sub>M</b>	<p><b><i>Number of research papers per teacher in the Journals notified on UGC website during the year:</i></b></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Title of paper</li> <li>• Name of the author/s</li> <li>• Department of the teacher</li> <li>• Name of journal</li> <li>• Month and Year of publication</li> <li>• ISBN/ISSN number</li> </ul>
---------------------------------------	--

### **Faculty Publications A.Y.2015-2016**

<b>Faculty Publications A.Y.2015-2016</b>						
<b>S.No.</b>	<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Dept of the teacher</b>	<b>Name of journal</b>	<b>Month and Year of publication</b>	<b>ISBN/ISSN: number</b>
1.	Survey of Algorithms on Maximum Clique Problem	Dr.Ajeeth Kumar	CSE	International Advanced Research Journal in Science, Engineering and Technology	February 2015	Vol. 2, Issue 2,ISSN: 2350-0328
2.	RAM Appointment Model for Mass Rapid Transit systems	Dr.Ajeeth Kumar	CSE	International Conference on Industrial Instrumentation and Control	May-15	
3.	Early Software Reliability Prediction	Dr.Ajeeth Kumar	CSE	Studies in Fuzziness and Soft Computing	May-15	
4.	Software Safety Assurance for Metro Railways	Dr.Ajeeth Kumar	CSE	<a href="http://www.trafficinfratech.com/">http://www.trafficinfratech.com/</a> , e-magazine	May-15	
5.	RAMS Management for a Complex Railway System: A Case Study	Dr.Ajeeth Kumar	CSE	Research gate	May-15	
6.	New mechanism for riskless authorized de duplication in cloud	SHAIK JAFFAR HUSSAIN	CSE	International Journal of Innovative technology and Research-2016	Jul-16	Volume No.4, Issue No.4, June – July 2016, 3119 – 3121.
7.	A combined approach and service oriented technologies that assists speed data	SHAIK JAFFAR HUSSAIN	CSE	International Journal of Innovative technology and Research-2016	Jun-16	Vol 4, No 4 (2016),ISSN 2320-5547
8.	Wireless sensor network security Issues:A Brief Review	Dr.M.Shanthi	CSE	International Journal of Research in Engineering and		
9.	Survey on the databases in the cloud environment	Dr.M.Shanthi	CSE	4TH national conference on emerging & Innovative trends in computer science		
10.	Spatio Temporal Modeling of Three Dimensional Shrink Process using	Dr.M.Shanthi	CSE	4TH national conference on emerging & Innovative trends in computer science		

	Cellular Automata					
11.	Secured Data Search over Cloud, International Journal for Research in Applied Science & Engineering Technology	Dr.M.Shanthi	CSE	International Journal for Research in Applied Science & Engineering Technology		
12.	A Multitier Web Application for Detecting Intrusions	Dr.M.Shanthi	CSE	IJESC		
13.	Privacy Preserving String Matching for Cloud Computing	Dr.B.BRUHA DESWAR	CSE	Distributed Computing Systems (ICDCS)		
14.	Fast and Scalable Range Query Processing with Strong Privacy Protection for Cloud Computing	Dr.B.BRUHA DESWAR	CSE	IEEE/ACM Transactions on Networking	Jul-16	IEEE/ACM Trans. Netw. 24(4): 2305-2318 (2016)
15.	Privacy-preserving Cross-domain Network Reach ability Quantification	Dr.B.BRUHA DESWAR	CSE	IEEE/ACM Transactions on Networking	Jul-05	IEEE/ACM Trans. Netw. 23(3): 946-958 (2015)
16.	Hybrid and rapid algorithms for association rule mining	K.Srinivas Rao	CSE	International journal for development of Computer science and Technology	Jul-15	IJDCST @June-July-2015, Issue- V-3, I-5, SW-27 ISSN-2320-7884 (Online) ISSN-2321-0257 (Print
17.	“Server Architecture – Social network search using mobile devices”	M.Jayapal	CSE	International Journal of Research sciences and Advanced Engineering		
18.	Generating ranking for cloud services using cloud rank framework	G.Manoj Kumar	CSE	International journal of professional Engineering studies	Volume V /Issue 2 /JULY 2015	ISSN. 2250- ...
19.	Improve the performance and privacy in cloud data	V.Suneetha	CSE	International journal of advanced Research and Innovation	Vol.8, Issue .I,July 2015	ISSN Online: 2319 – 9253 Print: 2319 – 9245
20.	Impact of Black Hole and Sink Hole Attacks on Routing Protocols for WSN	V.Bhavani	CSE	International journal of Electronics Communication and Computer Technology	Vol. 116, No. 4, pp. 42-46, April 2015	(0975-8887),
21.	Secured Data Search over Cloud, International Journal for Research in Applied Science & Engineering Technology	Dr.M.Shanthi	CSE	International Journal for Research in Applied Science & Engineering Technology		
22.	Analysis of DSR protocol for MANET under black hole and sink hole attacks using Netsim simulator	V.Bhavani	CSE	International Journal of Computer Applications	1. Vol. 5 Issue ICICC (May 2015), pp. 10-14.	(ISSN:2249-7838),



23.	A Fuzzy Logic based Dynamic Channel Allocation Scheme for Wireless Cellular Networks to optimize the Frequency Reuse	V.Bhavani	CSE	Accepted - IEEE TENCON	2016	
24.	Impact of Random Mobility Models for Reactive Routing Protocols over MANET	V.Bhavani	CSE	Accepted - International Journal of Simulations, Systems, Science and Technology		
25.	Mobility increases human contact in Adhoc wireless network	M.Jayapal	CSE	International Journal of Computers Electrical and Advanced Communications Engineering		
26.	Data Compression on Group Movement Patterns	M.Jayapal	CSE	International Journal on Computer Science and Technology,	Vol 3, ISSUE 3, July - Sept 2012	
27.	A Survey on Authentication Techniques in focus of Batch Signatures in multicasting	.M.Sambasivudu	CSE	International Journal of Engineering Research & Technology (IJERT)	Vol. 1 Issue 7, September – 2015,	ISSN: 2278-0181
28.	Mining association rules from cadastre database	M.Sambasivudu	CSE	ICCSA-15		
29.	A survey on authentication techniques in focus of batch signatures in multicasting	M.Sambasivudu	CSE	IJERT	volume 1, issue 7, September 2015	
30.	Autonomic virtual resource management for service workload management applying nefeli	M.Sambasivudu	CSE	IJvrin	volume 7, issue 2, September 2015	
31.	A novel approach to reduce false positives in spam zombie detection systems	M.Sambasivudu	CSE	IJIT	volume 2, issue 1, 2015	
32.	Implementation of Mobile sensor networks for the Improve Resolution of Target tracking	M.Sambasivudu	CSE	IJSETR	2015	
33.	A survey on retrieving contextual user profiles from search engine repository	G.Ravi	CSE	international Journal of Computer & Electronics Research,	VOL 2, Issue 4, AUG 2012	
34.	Privacy protection using generalization for collaborative data publishing	G.Ravi	CSE	International conferences on computing and communication (ICCSPCIT-2014)	2014	,ISBN NO:978 93 83038 275
35.	Secure Cloud Storage Privacy-Preserving Public Auditing For Data Storage Security In Cloud	G.Ravi	CSE	International conferences on computing and communication(ICCSPCIT-2014)	2014	

36.	Authentication and Key Management Scheme For Lte 4g Networks	G.RAVI	CSE	International conferences on computing and communication(ICCSPCIT-2014)	2014	
37.	Enhanced Traffic Prediction based Power Control System for Mobile Communication	MR.D.CHAN DRA SEKHAR REDDY	CSE	International Conference on Communications, Signal Processing computing And Information Technologies (ICCSPCIT-2k14) organized by Malla Reddy College of Engineering and Technology	2014	
38.	A Secure Multi-Hop Routing In Wireless Sensor Networks	MR.D.CHAN DRA SEKHAR REDDY	CSE	International systems and Knowledge Engineering		
39.	Query Suggestion to Sentence Scoring for Multi-Document Update Summarization	MR.D.CHAN DRA SEKHAR REDDY	CSE	IJIRT	volume 2 issue 7	
40.	Multilevel Control And Analysis Of Intrusion In Virtual Machines	MRS.M.GAY ATRI	CSE	ICTACSE-024,		ISBN: 978-93-83038-34-3
41.	Designing a Reliable Data Management System	MR.BIKSHA PATHY PERUKA	CSE	International Journal of Scientific Engineering & Technology	Vol.3, Issue24, September 2015	ISSN 2319-8885
42.	An Efficient DOKS Protocol Based Cloud Security	MR.P.DILEE P	CSE	IJATIR	Jul-05	
43.	Search Engine Using Spatial Data	Mrs.B.Padmaja	CSE	International Journal of Computational Engineering Research,	Vol. 03, Issue, 8	
44.	Shortest Path Finding Using Spatial Ranking	Mrs.B.Padmaja	CSE	International Journal of Computational Engineering Research,	Vol.2, Issue, 5	
45.	A survey on video streaming methods in multihop radio networks	Ms. R.Radha	CSE	International journal of computational engineering research,	Vol.2 issue 6, October 2016	
46.	Multimedia Data transmission Over Wireless Networks by exploiting the QoS Parameters	Ms. R.Radha	CSE	ICAEM12,	VOLUME 2 February 2012, Page No.8-11	ISSN online: 2277-2677,
47.	Server Architecture – Social network search using mobile devices	Mr.K.Srikanth	CSE	International Journal of Research sciences and Advanced Engineering		

48.	Thermo-diffusion effects on unsteady MHD Natural convective flow past an infinite vertical plate in presence of Heat absorption	Dr.K.Rajeshwar Reddy	H&S	Organization of Scientific Research Journal of Mathematics	2016	2278-5728
49.	User's Recommendation Prevention And Identification Of Ranking Fraud In Mobile Applications	M.Vazralu	IT	International Journal Of Global Innovations in engineering and technology	September, 2016.	ISSN 2223-5329
50.	Building A Multiprocessing Scheme In Cloud Context	M.Vazralu	IT	International Journal Of Reviews On Recent Electronics And Computer Science	Aug, 2016	ISSN 2321-5461
51.	Web Personalization Using The Efficient Fuzzy Cluster Based Multi Objective Social Spider Algorithm	P.Srinivasa Rao	IT	International Journal Of Advanced Scientific Technologies In Engineering And Management Sciences	December.2016	ISSN:2454-356X
52.	Performance Analysis of Opportunistic Minimum Cost Routing in Mobile Adhoc Networks	K.Vanisree & VSK Reddy	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Dec-15	ISSN: 2277-6699
53.	Detection of Black Hole Attack Using Code Division Security Method	SJ Ahmad, VSK Reddy, A Damodaram	ECE	Springer International Publishing Switzerland 2015, Emerging ICT for Bridging the Future	Jul-05	ISBN 978-3-319-13731-5
54.	A Novel Fast Search Motion Estimation Boosted by Multilayer Concept	Adapa Venkata Paramkusam and V S K Reddy	ECE	Multimedia Tools and Applications, Springer publications	Jul-05	ISSN: 2169-2188
55.	Simulation Studies of Silica and High K Oxide contained MOS circuits (45nm, 32nm and 22nm) for Power Dissipation Reduction	K. Bikshalu, V.S. K. Reddy, M.V.Manasa, K.V. Rao	ECE	International Journal of Engineering and Manufacturing (Accepted)	2015	ISSN: 2306-5982
56.	Synthesis of La <sub>2</sub> O <sub>3</sub> nanoparticles by Pechini method for future CMOS applications	K. Bikshalu, V.S.K. Reddy, P.C.S. Reddy, K.V. Rao	ECE	International Journal of Education and Applied Research, (Accepted).	2015	ISSN: 2348-0033
57.	Electro deposition of nano la <sub>2</sub> o <sub>3</sub> on p-type si wafer and electrical characterization for future CMOS applications	K. Bikshalu, V.S. K. Reddy, P.C.S. Reddy, , K.V. Rao	ECE	Association for advancement of modelling & simulation technique enterprises	2015	ISSN: 1259-5985

58.	Comparison of Band Diagrams and other parameters obtained by simulation analyses of the MOS devices	K. Bikshalu, V.S.K. Reddy, M.V.Manasa, K.V. Rao	ECE	Journal of Advanced Research (Elsevier)	Jul-05	ISSN: 2090-1232
59.	Shortest Path Finding Using Spatial Ranking	Mrs.B.Padmaja	CSE	International Journal of Computational Engineering Research,	Vol.2, Issue, 5	
60.	A survey on video streaming methods in multihop radio networks	Ms. R.Radha	CSE	International journal of computational engineering research,	Vol.2 issue 6, October 2016	
61.	Simulation of Band diagrams and Synthesis, Characterization of nano lanthana for MOS Capacitor Application	K. Bikshalu, V.S.K. Reddy, M.V.Manasa, K.V. Rao	ECE	Super lattices and Microstructures (Elsevier)	Jul-05	ISSN: 1314-3395
62.	Design and Implementation of High Speed Low Power and area Efficient Parallel Prefix Adder for Professor Applications	Y. Navya Sruthi, P.Sanjeeva Reddy	ECE	International Journal of Engineering & Science Research (IJESR),	Jul-15	ISSN 2277-2685
63.	Radar Cross Section Prediction Comparison Between Method Of Moments (MOM) and Physical Optics (PO) Techniques	K Tejaswe, P.Sanjeeva Reddy	ECE	International Journal on Computing, Communications and Systems (IJCCS).	Dec-15	ISSN: 2277-6699
64.	An Enhanced Detector for Cognitive Radio Based on Bi-Level Thresholding	V. Navya, Dr.S.Srinivasa Rao	ECE	Mallareddy Engineering College for Women,	2015	ISBN: 978 93 83038 33 6
65.	Background-Modeling-Based Adaptive Prediction for Surveillance Video Coding	R. Krishna Chaitanya, N. Saritha, Dr S.Srinivasa Rao	ECE	International Journal of Engineering & Science Research (IJESR)	Aug-15	ISSN 2277-2685
66.	“Test pattern Generation with a fixed hardware structure for low power and high fault coverage”	C. Ravi Shankar Reddy and B. Amarnath Naik	ECE	SS International Journal of Multidisciplinary Research (SSIJMR)	December 2015,	ISSN: 2395-7964
67.	“Performance Efficient Address Generator for WiMax De interleaver”,	B. Aswan Kumar and C. Ravi Shankar Reddy,	ECE	SS International Journal of Multidisciplinary Research,	Jul-05	ISSN: 2395-7964
68.	“Reducing Power Dissipation in Self Starting and Self Correcting Counter using A Look Ahead Clock Gating”,	C. Ravi Shankar Reddy and S. Madhana Mohana,	ECE	International Journal of Engineering Sciences & Research Technology (IJESRT),	Jul-05	ISSN: 2277-9655

69.	“Modified Decimal Matrix Code for Detection and Correction of Cell Upsets in SRAM”	Saifullah and C. Ravi Shankar Reddy,	ECE	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	December 2015,	ISSN: 2278 – 8875
70.	Improving quality of a video through an optimization technique	A.Priyanka & Dr.P.Lakshmi devi	ECE	International journal for research in applied science & engineering technology(ijraset)	Jul-15	ISSN: 2321-9653
71.	Hybrid Power Generation for Distributed Grid Applications	Mr.N.Kamala Moorthy, Dr.S.Suresh Kumar	ECE	ARNP Journal of Engineering and Applied Sciences Middle-East Journal of Scientific Research	Feb-16	ISSN: 1999-8147
72.	Decomposition of Dynamic Texture Using Diamond Search Algorithm	N. Kamala Moorthy , S. Prince Samuel, R. Kiruba	ECE	International Journal of Scientific and Technical Advancements	Jan-16	ISSN : 2454-1532
73.	Augmentation of Biodiesel from Castoreum by Virtue of Bioreactor	Mr.N.Karthik eyan, Mr. N.KamalaMo orthy	ECE	International Journal of Modern Trends in Engineering & Science.	Apr-16	ISSN:2455-3778
74.	Detection of fasciculation’s in Healthy and diseased muscle using Ultrasonic	Mr.N.Karthik eyan, Mr. N.KamalaMo orthy	ECE	International Journal of Medical and Health Research in Engineering and Science	Aug-16	ISSN: 2319-5886
75.	Boundary Detection in Medical Images Using Bonding Box Based Contour Method	B.Jyothi, Y.MadhaveeL atha, P.G.Krishna Mohan	ECE	International Journal of Applied Engineering Research	Jul-05	ISSN 0973-4562
76.	A Review of Low Level Visual Features For a Content Based Medical Image Retrieval System	B.Jyothi, Y.MadhaveeL atha, P.G.Krishna Mohan	ECE	ARNP Journal of Engineering and Applied Sciences, Asian Research Publishing Network (ARNP).	December, 2015	ISSN 1819-6608
77.	Steerable Texture Description for an Efficient Content Based Medical Image Retrieval System using PCA	B.Jyothi, Y.MadhaveeL atha, P.G.Krishna Mohan	ECE	Advances in Intelligent Systems computing AISC Series	2015	ISSN : 2194-5357
78.	Performance Improvement in Medical Image Segmentation using Fuzzy Based Algorithm	S. Srikanya, B.Jyothi	ECE	International Journal for Research in Emerging Science and Technology (IJREST),	Jul-15	ISSN 2349-7610

79.	3D Blob Based Brain Tumor Detection and Reconstruction using Segmentation Method	Priyanka Roy, B.Jyothi & Y. Madhavee Latha	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Dec-15	ISSN: 2277-6699
80.	Boundary Detection in Medical Images Using Bonding Box Based Contour Method	B.Jyothi, Y.MadhaveeLatha, P.G.Krishna Mohan	ECE	International Journal of Applied Engineering Research	2015	ISSN 0973-4562
81.	Segmentation of Brain Tissue using Fuzzy Local Information C-Means Technique	Sucharitha.M & K Parimala Geetha	ECE	Journal of Chemical and Pharmaceutical Sciences	Mar-16	ISSN 2349-8552
82.	Architecture to Detect and Correct Error in Motion Estimation of Video System Based on RQ Code	Purva Choudhary, K. Mallikarjuna Lingam	ECE	International Journal of Emerging Engineering Research and Technology,	July 2015,	ISSN2349-4395
83.	Image Fusion with Simultaneous Orthogonal Matching Pursuit	Satya Rahul K, K. Mallikarjuna Lingam	ECE	IRD India,	Jul-15	ISSN 2347-2812
84.	Content Based Video Retrieval Using Low and High Level Semantic Gap	Santhosh Kumar K, K. Mallikarjuna Lingam,	ECE	International Journal for Research in Emerging Science and Technology	July 2015.	ISSN 2349-7610
85.	Design of High Performance 4-Bit Full Adder with Reduced Ground Bounce Noise	A. Navyasri, K. Mallikarjuna Lingam	ECE	International Journal of Engineering & Science Research (IJESR), June 2015, Pages 415-420.	June,2015	ISSN 2277-2685
86.	A Novel Joint Data-Hiding and Compression Scheme Based on SMVQ and Image in painting	Srikanth.B, GS Naveen Kumar, VSK Reddy	ECE	IJRAET, Impact Factor: 1.53, pp 31-37.	Jul-15	ISSN: 2347-2812
87.	Discrete Anamorphic Stretch Transform for Image and Video Compression	Ramesh Goud. N, Kiran Kumar.V	ECE	International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR),	Jul-15	ISSN: 2348-4845
88.	A Global Approach to Mitigate the Impact of NBTI on Processor & MultiCore System Functional Units	P. Anitha ,B L Raju	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Dec-15	ISSN: 2277-6699
89.	A Real-Time Aero and Space Photogrammetry Stereo Vision System, Discerning Defense Aviation and NASA's Space Expeditions	Gaurav Kumar Wankar,P. Anitha	ECE	International Journal on Computing, Communications and Systems (IJCCS)	December-2015	ISSN: 2277-6699

90.	A Proposed RAISIN for BISR for RAM's with 2D Redundancy	Vadlamani Sai Shivoni, Anitha Patibandla	ECE	International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR),	Jul-15	ISSN: 2348-4845
91.	Design of Low Power Data Encoding Schemes Architectures to Reduce Power Dissipation in Links on Network-On-Chip	K. Laxmi Tirupathamma, Anitha Patibandla	ECE	International Journal of VLSI System Design and Communication (IJVDCS)	August-15	ISSN: 2322-0929
92.	Design of Low Power Data Encoding Schemes Architectures to Reduce Power Dissipation in Links on Network-On-Chip	Anitha Patibandla	ECE	International Journal of VLSI System Design and Communication (IJVDCS)	Aug-15	ISSN: 2322-0929
93.	Implementation of AES Algorithm for Area and Power Optimization by the Application of Reversible Logic and Null Conventional Logic	Poojitha Avuta, Patibandla Anitha, Gayathri Aouta	ECE	International Journal of Emerging Engineering Research and Technology	July 2015	ISSN 2349-4395
94.	Detection of Hardware Trojan in Sea using Path Delay	P Vandana, P. Anitha	ECE	International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR)	Aug-15	ISSN: 2348-4845
95.	An NBTI Aware Architecture for Humming Bird Cryptography Algorithm employing Multiple Threshold Voltage NCL Gates	P.Anitha,Dr.B .L.Raju	ECE	International Journal of Modern Sciences and Engineering Technology	July 2015.	ISSN:2349-3755
96.	Efficient Partial Product Generation using Radix4 & Radix8 for Multi-Modulus Multiplication	Priya Sandhu, M. Anusha	ECE	International Journal of Emerging Engineering Research and Technology	Jul-15	ISSN 2349-4395
97.	Performance Analysis of Low Voltage CMOS Full Adder Topologies Based on Various Parameters	Kasi Bandla, P Srikanth & M Arun Kumar, M.Anusha	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Dec-15	ISSN: 2277-6699
98.	Performance Analysis of Low Voltage CMOS Full Adder Topologies Based on Various Parameters	Kasi Bandla, P Srikanth & M Arun Kumar, M.Anusha	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Dec-15	ISSN: 2277-6699
99.	Region Based Video Retrieval System Using Shape-Adaptive DCT	J. Haripriya, D. Asha & Y. Madhavee Latha	ECE	International Journal on Computing, Communications and Systems (IJCCS)9 .	Dec-15	ISSN: 2277-669

100.	Neighbourhood Based Fuzzy Filtering for Moving Object Detection	M. Himani, D. Asha	ECE	International Journal of Engineering & Science Research (IJESR)	Oct-15	ISSN 2277-2685
101.	An Improved Object Recognition System Design Using Background Subtraction Algorithm	Salunke Kaweri, D. Asha	ECE	International Journal of Engineering & Science Research (IJESR)	Jun-15	ISSN 2277-2685
102.	WG Stream Cipher based Encryption Algorithm	Shrddha N Choudhary, K. Suresh	ECE	International Journal of Emerging Engineering Research and Technology	Nov-15	ISSN 2349-4395
103.	Implementation of AES Algorithm using Urdhwa Triyakbhyam Sutra and Galois field	Kavuri Suresh, Jagadish Reddy	ECE	International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR)	Jul-15	ISSN: 2348-4845
104.	CMOS RF Process for Wireless Communication with 2.4Ghz fully integrated NEW 1.8V Power Amplifier	M.A.Khadar Baba, J Nageswara Reddy & P.Raji Reddy	ECE	International Journal on Computing, Communications and Systems (IJCCS)	Jul-15	ISSN: 2277-6699
105.	Background-Modeling-Based Adaptive Prediction for Surveillance Video Coding	R. Krishna Chaitanya, N. Saritha, Dr S.Srinivasa Rao	ECE	International Journal of Engineering & Science Research (IJESR)	Aug-15	ISSN 2277-2685
106.	Implementation of Cognitive Radio and its Detection Techniques	Swarnasubash , N. Saritha, Subash Nemani	ECE	International Journal of Engineering & Science Research (IJESR)	Jun-15	ISSN 2277-2685
107.	Shape-based Normalized Cuts Using Spectral Relaxation for Biomedical Segmentation	Raghava Sreevani. Renju Panicker	ECE	International Journal of Engineering & Science Research (IJESR)	August 2015,	ISSN 2277-2686
108.	Radar Cross Section Prediction Comparison Between Method Of Moments (MOM) and Physical Optics (PO) Techniques	K Tejaswe, P.Sanjeeva Reddy	ECE	International Journal on Computing, Communications and Systems (IJCCS) .	Dec-15	ISSN: 2277-6699
109.	Comprehensive Investigation of Compound Cantilever Beams orColumns Subjected to Concentrated Axial Or Lateral Load At Free End,	K.Durga Rao	ANE	Journal of Structural Engineering	January 2016, Vol 42, Issue 5, Pp 418-427	0733-9445



110.	Dynamic Aero Elastic (Flutter) Instability Characteristics of An Aircraft Wing,	S. Shailesh Babu	ANE	International Journal of Engineering And Innovative Technology (Ijeit)	June 2015, Volume 4, Issue 12, 114-120	2277-3754
111.	Review Paper On Hypersonic Air-Intakes, International	Sandeep J	ANE	Journal of Innovations In Engineering And Technology,	Volume 6 , Issue 3, Feb.2016, 107-111	2319-1058
112.	Post-Buckling of Compound Cantilever Elastica Based on Galerkin Finite Element Formulation	Durga Rao K. & Karthikeyan, T. & Hussain & M Manzoor	ANE	Journal Part A: Civil & Structural Engineering	2015	1937-3279
113.	Thermal Post Buckling of Heated Uniform Columns Considering Green Nonlinearity: A Novel Linear Finite Element Formulation	K.Durga Rao	ANE	Journal Of Aerospace Sciences And Technologic	December 2015, Vol.68, Issue 1, Pp 37-46	
114.	Numerical Analysis of Wings For Uav Based On High-Lift Airfoils	Ms. MNVS Swetha Bala	ANE	International Journal Of Innovations In Engineering And Technology,	Volume 5 Issue 3 June 2015, 325-330	2319-1058
115.	Estimation of The Correction Term Of Pitot Tube Measurements In Unsteady (Gusty) Flows	Sreenadh Chevula ,	ANE	Flow Measurement And Instrumentation	December 2015, Vol 46, P179-188	955-5986
116.	Assessment of Composite And Sandwich Laminates Using A New Shear Deformation Theory	S.Suganyadevi	ANE	Aiaa Journal	February 2016, 54,2,789-792	1270-9638
117.	Improved Zigzag Theories For Laminated Composite And Sandwich Plates With Interlaminar Shear Stress Continuity	S.Suganyadevi	ANE	Aerospace Science And Technology	May 2016, 52,243-255	1270-9638
118.	"higher order closed form solution for the analysis of laminated composite and sandwich plates using new shear deformation theories"	suganyadevi sarangan & B.N.Singh	ANE	COMPOSITE STRUCTURES	Mar-16	0263-8223
119.	Fluid Structure Interaction on Journal Bearings at Different L/D and Eccentricity Ratios	Dr.PHV Sesha Talpa Sai Mahender Janagam, D. Prasuna Lilly Florence	Mechanical Department	International Journal of Science, Engineering and Technology Research	Nov-15	e-ISSN: 2278-1684 p-ISSN: 2320-334X
120.	Design and Analysis of Steam Turbine Balde using FEA	Dr.PHV Sesha Talpa Sai K. Swarnalata Naga Durga	Mechanical Department	International Journal of Scientific Engineering and Technology Research	Aug-15	2319-8885

121.	Design Evaluation and Optimization of Helical Gears using CREO	K. Shilpa, D. V. Subbarao, Dr.PHV Sessa Talpa Sai	Mechanical Department	International Journal of Scientific Engineering and Technology Research,	Jul-15	2319-8885
122.	Stress and Buckling Analysis of Compression Loaded Composite Cyindrical Shell	DPHVST Sai	Mechanical Department	International Journal of Scientific Engineering and Technology Research	Jul-15	2319-8885
123.	Design and Analysis of Mechanism for Dynamic Characterization of Power Transmission System	YVKDPHVS TS G Narasimhulu, S. Anoop Kumar	Mechanical Department	IOSR Journal of Mechanical and Civil Engineering	Jul-15	e-ISSN: 2278-1684 p-ISSN: 2320-334X
124.	Chemical reaction and radiation effects on MHD flow over an exponentially stretching sheet with viscous dissipation and heat generation	PS Sai, K Ramakrishna, N Puppala, KJ Reddy	Mechanical Department	Int. J. Math. Comput. Appl. Res	Jul-15	2278-0181
125.	Thermal Analysis Of Engine By Changing Fluid And Thickness Of Fins	Pe Prasad, Yd Kumar, Phvst Sai	mechanical department	International Journal Of Emerging Trends In Technology And Sciences	Jul-15	
126.	Thermal Load Effect On Valve By Using Conventional And Mixed Fuels	b Madhu, Yd Kumar, Phvst Sai	mechanical department	Ijet	Jul-15	
127.	Structural Design and Analysis of Trailer System for Photo Voltaic Cells	BS Rani, PHVST Sai, YV Kumar, C Udayakiran	Mechanical Department	IOSR-JMCE 11	Jul-15	
128.	“Do Foreign investors comprehend the Opportunities of Indian Retailing?”	Prof. G Naveen Kumar	MBA	International Conference on Emerging Strategies for Business Advancements	3-4 July 2015	ISBN: 978-93-83038-36-7.
129.	“Women as a Change Agent-From Salt Doll to Rubber Ball”	G Archana, G Naveen Kumar & K.Sudheer	MBA	International Conference On Emerging Strategies for Business Advancements	3-4 July 2015	ISBN: 978-93-83038-36-7.
130.	“Policy Initiatives in FDI and Growth Trends in India”	G Naveen Kumar Dr. MVS Srinivas Rao Mr. K Sudheer	MBA	International Conference on Strategies for Business Excellence: Challenges and Opportunities	18-19 December 2015	ISBN: 978-93-83038-29-9
131.	“Perspective Role of Various Schemes Launched by Government of India with respect to Financial Inclusion, Insurance, Pension and Gold”	T.Satish kumar	MBA	International Conference on Strategies for Business Excellence: Challenges and Opportunities	18th-19th December 2015	ISBN: 978-93-83038-29-9

132.	“A study on factors affecting success of women entrepreneurs in Tigray region-Ethiopia (A case study of Adigrat town entrepreneurs)”	Dr.R. Durga Prasad	MBA	International Research Journal of Business Management-IRJBM, Volume 9, Issue 1	Jan-16	ISSN 2322-083X
133.	“A Study on Employee Welfare Facilities and its Impact on Employee Work satisfaction at Addis Pharmaceutical Factory PLC Adigrat Ethiopia”	Dr.R.Durga Prasad	MBA	Research Journal of Social Science & Management-RJSSM, Volume 5, No 7 (2015)	01-Nov-15	ISSN 2251-1571
134.	“Promotional marketing experiences on Leather Factories in Ethiopia A Case study of Sheba leather Factory”	Dr.R. Durga Prasad	MBA	Research Journal of Social Science & Management-RJSSM, Volume 5, No 6 (2015)	01-Oct-15	ISSN 2251-1571
135.	“Perspective Role of Various Schemes Launched by Government of India with respect to Financial Inclusion, Insurance, Pension and Gold”	Dr.IJ.Raghavendra	MBA	International Conference on Strategies for Business Excellence: Challenges and Opportunities	18th-19th December 2015	ISBN: 978-93-83038-42-8.
136.	“Enterprise value creation through creative management practices”	Dr. Reena Modi	MBA	Tirpude Institute of Management Education	2015	***
137.	“Challenges and opportunities for the growth of Indian financial sector”	Dr. Reena Modi	MBA	NIT Graduate School of Management, Nagpur	2015	***
138.	Whether Recruitment stands on strategies or ethics of the management.	Dr. K V Subba Rao	MBA	International conference on strategies on recruitment on Human resources	2015	***
139.	The impact of IT on Human resources, opportunities & Challenges	G.Archana & N.Durga Bhavani	MBA	4th International Conference on Strategies for business excellence; Challenges & opportunities	18th-19th December 2015	ISBN NO. 978-93-83038-29-9.
140.	“A study of challenges and opportunities faced by online banking and various services in oman”	N.Rajesh Babu	MBA	4th International Conference on Strategies for business excellence; Challenges & opportunities	18th-19th December 2015	ISBN NO. 978-93-83038-29-9.
141.	“Impact of fusions on the Indian markets through financial lineups”	V.Harikrishna	MBA	4th International Conference on Strategies for business excellence; Challenges & opportunities	18th-19th December 2015	ISBN NO. 978-93-83038-29-9.

### 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
1	Prof. P. Sanjeeva Reddy	-	Radar Cross Section Prediction Comparison Between Method Of Moments (MOM) and Physical Optics (PO) Techniques	International Conference on Communications, Signal Processing, Computing and Information Technologies, ICCSPCIT-2015,	International Conference on Communications, Signal Processing, Computing and Information Technologies, ICCSPCIT-2015,	International	Dec, 2015	ISBN:978-93-83038-27-5	MRCET	Springer
2	Dr.C. Ravi Shankar Reddy	-	Implementation of Area and Power Efficient Built in Self Test Pattern Generator	2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)	IEEE international conference on Wireless Communications, Signal Processing and Networking (WiSPNET),	International	23rd – 25th March 2016	DOI: 10.1109/WiSPNET.2016.7566101	JNTUA	IEEE
3	Dr.C. Ravi Shankar Reddy	-	Hybrid Type Test Pattern Generator for Memory Testing	International Conference on Electricals, Electronics, Signals Communication and Optimization (EESCO),	International Conference on Electricals, Electronics, Signals Communication and Optimization (EESCO),	International	24-25 Jan 2015	DOI: 10.1109/EESCO.2015.7253652	JNTUA	IEEE
4	B.Jyothi	-	Steerable Texture Descriptor for an Effective Content-Based Medical Image Retrieval System Using PCA	Proceedings of the Second International Conference on Computer and Communication Technologies	Second International Conference on Computer and Communication Technologies IC3T-2015 Springer	International	Dec-15	ISBN: 978-81-322-2516-4	MRCET	Springer

5	B.Jyothi	-	An effective multiple visual features for Content Based Medical Image Retrieval	9th International Conference on Intelligent Systems and Control (ISCO) IEEE	9th International Conference on Intelligent Systems and Control (ISCO) IEEE	International	Mar-15	DOI: 10.1109/ISCO.2015.7282301	MRCET	IEEE
6	B.Jyothi	-	Multi Dimensional Feature Space for an Effective Content Based Medical Image Retrieval	IEEE International Advance Computing Conference (IACC)	IEEE International Advance Computing Conference (IACC)	International	Aug-15	DOI: 10.1109/IADCC.2015.7154670	MRCET	IEEE
7	B.Jyothi	-	3D Blob Based Brain Tumor Detection and Reconstruction using Segmentation Method	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International	Dec-15	ISBN: 978-93-83038-27-5	MRCET	Springer
8	Dr.Pujari Lakshmi devi.	-	Image processing of natural calamity images using healthy bacteria foraging optimization algorithm	2 <sup>nd</sup> International conference on computer and communication technologies (ic3t-2015) springer-advances in intelligent systems and computing	2 <sup>nd</sup> International conference on computer and communication technologies (ic3t-2015) springer-advances in intelligent systems and computing	International	24 <sup>th</sup> - 26 <sup>th</sup> july 2015	ISBN: 978-81-322-2516-4	JNTUA	Springer
9	Sucharitha M	-	Segmentation of Brain Tissue using Fuzzy Local Information C-Means Technique	International Conference on Soft Computing in Applied Science and Engineering	International Conference on Soft Computing in Applied Science and Engineering	International	Jul-15	DOI: 10.3233/THC-151012	Ponjesly College of Engineering, Nagercoil, TamilNadu, India	IOS press

10	Mr.G.S. Naveen Kumar	-	Robust video object segmentation and tracking using color and shape features	International Conference on Innovations in Electronics and Communication Engineering ( ICIECE - 2015 )	International Conference on Innovations in Electronics and Communication Engineering ( ICIECE - 2015 )	International	Aug-15	ISSN NO:2249-9946	MRCET	
11	Mr.G.S. Naveen Kumar	-	A Novel Joint Data-Hiding and Compression Scheme Based on SMVQ and Image In painting	International Conference on ICSPCOMSD -2015	International Conference on ICSPCOMSD -2015	International	3-4 July 2015	ISBN:978-93-83038-33-6	MRCET	
12	P. Anitha	-	A Global Approach to Mitigate the Impact of NBTI on Processor & MultiCore System Functional Units	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International	Dec-15	ISBN: 978-93-83038-27-5	MRCET	Springer
13	P. Anitha	-	A Real-Time Aero and Space Photogrammetry Stereo Vision System, Discerning Defense Aviation and NASA's Space Expeditions	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015),	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015),	International	Dec-15	ISBN: 978-93-83038-27-5	MRCET	Springer
14	M.Arun Kumar	-	Performance Analysis of Low Voltage CMOS Full Adder Topologies Based on Various Parameters	International Conference on Communications, Signal Processing, Computing and Information Technologies, ICCSPCIT-2015,	International Conference on Communications, Signal Processing, Computing and Information Technologies, ICCSPCIT-2015,	International	Dec-15	ISBN:978-93-83038-27-5	MRCET	Springer

15	Ms.D.Asha	-	Region Based Video Retrieval System Using Shape-Adaptive DCT	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International Conference on Communications, Signal Processing, Computing and Information Technologies (ICCSPCIT-2015)	International	Dec-15	ISBN:978-93-83038-27-5	MRCET	Springer
16	Raji Reddy Pathuri	-	CMOS RF Process for Wireless Communication with 2.4Ghz fully integrated NEW 1.8V Power Amplifier	International Conference on Communications, Signal Processing, Computing and Information Technologies	International Conference on Communications, Signal Processing, Computing and Information Technologies	International	Dec-15	ISBN:978-93-83038-27-5	MRCET	Springer
17	K Tejaswe	-	Radar Cross Section Prediction Comparison Between Method Of Moments (MOM) and Physical Optics (PO) Techniques	International Conference on Communications, Signal Processing, Computing and Information Technologies	International Conference on Communications, Signal Processing, Computing and Information Technologies	International	Dec-15	ISBN:978-93-83038-27-5	MRCET	Springer

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

*Academic Year:2015 -2016*

<b>S.No</b>	<b>Names of the Consultants/ corporate Trainers</b>	<b>Name of Consultancy project / corporate training</b>	<b>Consulting/Sponsoring agency with contact details</b>	<b>Revenue generated (amount in rupees)</b>	<b>Total revenue generated in rupees</b>
1	Mr.Ram Prakash	Design of the precision agriculture system using IoT	Web Cognize Pvt Ltd	6,40,000	54,10,000
2	Mr.Sameer	Smart City Dynamic Transport system using IoT	Coign Consultants Pvt Ltd	6,20,000	
3	Mr.Suresh	Innovative Techniques or Mining Databases using Timestamps	Saky Technologies	6,15,000	
4	Mr.Vazralu	Text Mining The Contributors To Rail Accidents	VN Career Solutions	2.50Lakhs	
5	M Ramanjaneyulu	Automobile Vehicle Position Tracking System (APTS) using HAM radios	UTI Technologies	620000	
6	K Mallikarjuna	Rural Electrification by Solar Powered LEDs	Sun power electricals	530000	
7	G Naveen Kumar	Design of Intelligent Parking Management System Based on Number Plate Recognition	Embedded RF Technologies	620000	
8	Mr.G.S Naveen Kumar	Vehicle Anti Collision Using Sensors	Embedded RF Technologies	215000	
9	Dr.S.Srinivasa Rao	Development of smart voice assistant	RobotSpace Automation Pvt Ltd,Hyderabad	380000	
10	Aztec Automation Private Limited	Entrepenuership	9492752032	1.6 Lakhs	
11	Klenzaid's Contamination	Entrepenuership	9700571475	2.1 Lakhs	
12	Srujana Enterprises	Marketing Research	Srujana Enterprises Ramnagar, Hyderabad Contact number-7842538548	1,50,000	



13	Gokul Paints	Start up short term Training	Gokul Paints, Nizampet, Hyderabad. Contact Number-917765555	1.80,000	
14	Arkin Software Tech	Marketing Survey	Arkin Software Tech Vikramपुरi, Secunderabad Contact Number -9866562863	2,20,000	

<b>3.5.2</b>	<b><i>Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the year</i></b>
<b>Q<sub>n</sub>M</b>	<p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Facility developed and amount spent</li> <li>• Training programmes for teachers for undertaking consultancy</li> <li>• Training programmes for staff for supporting consultancy activities.</li> <li>• Total expenditure on training teachers and staff or consultancy</li> </ul>

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
CSE	Android Application Development	Coign Consultants Pvt.Ltd	40000	120
IT	Training on software testing lab	Mrcet / United Infotech	20,000	55
ECE	PCB Design and Hardware Prototype Design	UTI Technologies	34,000	105
ECE	Analog & Digital IC Applications	Sun power electricals	45000	88
ECE	Product Design using Embedded systems and Robotics”	Embedded RF Technologies	40000	76

<b>3.6.1</b>	<b><i>Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year</i></b>
<b>Q<sub>1</sub>M</b>	Describe the impact of extension activities in sensitizing students to social issues and holistic development within a maximum of 500 words

Awareness about Traffic Rules, 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.

The student volunteers visit neighbouring localities and conduct various activities regularly.

Details of a few programmes are given below:

Activities like Swatch Bharath (from 2015 to2020) is conducted in Near by 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 neighbourhood, 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 Bahadyrpally,Dhulapally,GundlaPochampally . Planted thousands of samplings to make green & clean culture.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.

<p><b>3.6.2</b></p> <p><b>Q<sub>n</sub>M</b></p>	<p><b><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></b></p> <p>Data Requirement:</p> <ul style="list-style-type: none"> <li>• Name of the activity</li> <li>• Name of the Award/recognition</li> <li>• Name of the Awarding government/ recognized bodies</li> <li>• Year of the Award</li> </ul>
--	---

<b>Title of the innovation</b>	<b>Name of Awardee</b>	<b>Awarding Agency</b>	<b>Date of award</b>	<b>Category</b>
--------------------------------	------------------------	------------------------	----------------------	-----------------

Best Teacher	Dr VSK Reddy	LEAD	03-11-2016	Teaching
Best Research Paper	Dr S Srinivasa Rao	MRECW	26/08/2015	Teaching
Paper Presentation	B Jyothi	JNTUH	30/12/2015	Research Fellowship
Best Faculty in Engineering	A SYAM PRASAD	LEAD	11-04-2016	Teaching
Best Faculty in Engineering	G RAVI	LEAD	11-04-2016	Teaching
Best Academician	D RADHA	CSERD	23-05-2016	Teaching
Debugging	J SHIVANANDA REDDY	JNTUH	22-12-2015	Students
Code mania	K SAILESH KUMAR	JNTUH	22-12-2015	Students
Paper Presentation	M DEEKSHITH REDDY	JNTUH	22-12-2015	Students

**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	Academic Year	Name of the activity	Name of the Student	Name of the Award/ recognition	Name of the Awarding government/ recognized bodies	Year of the Award
Debugging	J SHIVANANDA REDDY	JNTUH	22-12-2015	Students	Debugging	J SHIVANANDA REDDY
Code mania	K SAILESH KUMAR	JNTUH	22-12-2015	Students	Code mania	K SAILESH KUMAR
Paper Presentation	M DEEKSHITH REDDY	JNTUH	22-12-2015	Students	Paper Presentation	M DEEKSHITH REDDY
Paper Presentation	Bandike Pavithra	MRECW	17/10/2015	Students	Paper Presentation	Bandike Pavithra
Paper Presentation	Goda Deepa	MRECW	17/10/2015	Students	Paper Presentation	Goda Deepa
Technical Quiz	Chennuary Krishna Teja	VCE	19/02/2016	Students	Technical Quiz	Chennuary Krishna Teja
Code mania	Gajavelly Dinesh	VNRVJIET	26/02/2016	Students	Code mania	Gajavelly Dinesh
Paper presentation	Marripelly Susmitha	CMRCET	18/9/2015	Students	Paper presentation	Marripelly Susmitha
Robo making	P Vaishnavi	BVRIT	09-11-2015	Students	Robo making	P Vaishnavi

<b>3.6.3</b> <b>Q<sub>n</sub>M</b>	<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"> <li>• Name and number of the extension and outreach programs</li> <li>• Name of the collaborating agency: Non- government, industry, community with contact details</li> </ul>
---------------------------------------	---

### 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	Yoga	NSS-MRCET	45	124	Yoga
2	Go green	NSS-MRCET	36	250	Go green
3	e-waste management	NSS-MRCET	10	100	e-waste management
4	Medical Camp	NSS-MRCET	15	120	Medical Camp
5	NSS SPECIAL CAMP PROGRAMME	NSS	20	100	NSS SPECIAL CAMP PROGRAMME
6	ANTI-RAGGING & SHE TEAMS PROGRAMME	NSS	22	80	ANTI-RAGGING & SHE TEAMS PROGRAMME
7	NSS SPECIAL CAMP PROGRAMME	NSS	40	120	NSS SPECIAL CAMP PROGRAMME
8	Blood Donation camp	NSS-MRCET	6	96	Blood Donation camp
9	Seminar On Gender Seditization	NSS-MRCET	12	252	Seminar On Gender Seditization
10	5k Walk For Equality & Unity	NSS-MRCET	10	65	5k Walk For Equality & Unity
11	HARITHAHARAM (PLANTATION)	NSS-MRCET	20	180	HARITHAHARAM (PLANTATION)
12	SPECIAL VILLAGE CAMP AT GUNDLA POCHAMPALLY	NSS-MRCET	18	175	SPECIAL VILLAGE CAMP AT GUNDLA

					POCHAMPALLY
13	YOGA AND MEDITATION - VILLAGE PEOPLE	NSS-MRCET	15	150	YOGA AND MEDITATION - VILLAGE PEOPLE
14	TRAFFIC AWARENESS PROGRAMME	NSS-MRCET	13	110	TRAFFIC AWARENESS PROGRAMME
15	Save Water	EWB	45	600	Save Water
16	Rally for rivers	EWB	45	600	Rally for rivers
17	Clean & Green Environment- WOW	Telangana Govt. & NSS JNTUH	10	50	Clean & Green Environment- WOW
18	Harithaharam (Plantation)	NSS JNTUH & MRCET	12	60	Harithaharam (Plantation)
19	Harithaharam (Plantation)	Telangana Govt. & NSS JNTUH	8	22	Harithaharam (Plantation)

<p><b>3.6.4</b></p> <p><b>Q<sub>n</sub>M</b></p>	<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"> <li>• Name of the activity</li> <li>• Name of the scheme</li> <li>• Year of the activity</li> </ul>
--	--

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Health Scheme	NSS-MRCET	Yoga	45	124
SWACHH BHARAT	NSS-MRCET	Go green	36	250
e-waste management	NSS-MRCET	e-waste management	10	100
Health Scheme	NSS-MRCET	Medical Camp	15	120
NSS SPECIAL CAMP PROGRAMME	NSS	NSS SPECIAL CAMP PROGRAMME	20	100
ANTI-RAGGING & SHE TEAMS PROGRAMME	NSS	ANTI-RAGGING & SHE TEAMS PROGRAMME	22	80
NSS SPECIAL CAMP PROGRAMME	NSS	NSS SPECIAL CAMP PROGRAMME	40	120
Health Scheme	NSS-MRCET	Blood Danation camp	6	96
National Service Scheme	NSS-MRCET	Seminar On Gender	12	252

		Sesitization		
National Service Scheme	NSS-MRCET	5k Walk For Equality & Unity	10	65
HARITHAHARAM (PLANTATION)	NSS-MRCET	Go green	20	180
SPECIAL VILLAGE CAMP AT GUNDLA POCHAMPALLY	NSS-MRCET	Village Camp	18	175
YOGA AND MEDITATION - VILLAGE PEOPLE	NSS-MRCET	Yoga	15	150
TRAFFIC AWARENESS PROGRAMME	NSS-MRCET	Awareness Creation	13	110
NATIONAL SERVICE SCHEME	Telangana Govt. & NSS JNTUH	Clean & Green Environment-WOW	10	50
NATIONAL SERVICE SCHEME	NSS JNTUH & MRCET	Harithaharam (Plantation)	12	60
NATIONAL SERVICE SCHEME	Telangana Govt. & NSS JNTUH	Harithaharam (Plantation)	8	22

<p><b>3.7.1</b></p> <p><b>QnM</b></p>	<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"> <li>• Title of the collaborative activity</li> <li>• Name of the collaborating agency with contact details</li> <li>• Source of financial support</li> <li>• Year of collaboration</li> <li>• Duration</li> <li>• Nature of the activity</li> </ul>
---------------------------------------	---

**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
Internship	M.Vivek	Hello Robotics	18 Days	Internship
Internship	D.Lasya	EdCIL(India) Limited	18 Days	Internship
Mini project	M.Haritha, srividya	Hello Robotics	21 days	Mini project
Internship	K Sai kiran	ECIL,Hyd	15 days	Internship
Conference	B.Jyothi	Malla Reddy College of Engineering and Technology	2 Days	Conference
internship	N Rahul raj	NRSC,Hyd	15 Days	Internship
Student Exchange Programme	M.Pandey	UNIMAS Malaysia	60 days	Research Internship
Student Exchange Programme	Jagruthi	NIT Rourkela	70 days	Research Internship
Student Exchange Programme	Mumtaz	NIT Warangal	55 days	Research Internship
Internship	S. Rajesh	Inprodev Solutions	90 days	Internship
Internship	M. Santosh	Coign Consultant Pvt. Ltd	90 days	Internship
Project Work	B. Sushmita	Internshala	90 days	Project Work
Student Internship	B.Srinivas	24/7 Customer Co.Ltd, Hyderabad	90 days	Customer Support
Student Internship	E.Roopa	ARKIN SOFTWARE, Hyderabad	90 days	Team Management
Student Internship	N.Prabhakar	CANON INDIA, Hyderabad	120 days	Market Survey
Student Internship	V.Sushma	K12 Technoogies, Hyderabad	90 days	Business Development
Student Internship	M.Hari Krishna	Data Point, Hyderabad	120 days	HR Activities

**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)**

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
EdCIL (India) Limited	02.06.2016	Projects, Industrial Training, Industrial Visits, Research Projects	45
Hello Robotics	02.01.2015	Projects, Industrial Training, Industrial Visits, Research Projects	45
National Remote Sensing Centre (NRSC)	13.04.2015	Projects, Industrial Training, Industrial Visits, Research Projects	12
National institute of Amateur Radio (NIAR)	04-11-2015	Projects, Industrial Training, Industrial Visits, Research Projects	6
HSL, Visakhapatnam	24-08-2015	Internship	50
NIT Rourkela	21-09-2015	Research Activities	10
NIT Warangal	16-10-2015	Research Activities	10
Mahindra & Mahindra	22-11-2015	Job, Internship & Research	40
Arkin Software Technologies Pvt. Ltd	06-06-2015	Developing Organizational Structure	Teachers -2
Gokul Paints	04-11-2015	Distribution channel strategy	Students-5
Power Engineering Service	12-08-2015	Business Development Strategies	Students-4