



## Yearly Status Report - 2015-2016

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
Name of the head of the Institution	Dr. S. SUDHAKARA REDDY
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	09348161303
Mobile no.	9348161125
Registered Email	principal@mrec.ac.in
Alternate Email	iqac@mrec.ac.in
Address	Maisammaguda, Dhulapally
City/Town	Secunderabad
State/UT	Telangana
Pincode	500100

<b>2. Institutional Status</b>																									
Autonomous Status (Provide date of Conformant of Autonomous Status)	20-Jan-2014																								
Type of Institution	Co-education																								
Location	Urban																								
Financial Status	Self financed																								
Name of the IQAC co-ordinator/Director	Dr. T. V. Surendranatha Reddy																								
Phone no/Alternate Phone no.	09348161303																								
Mobile no.	9440361207																								
Registered Email	iqac@mrec.ac.in																								
Alternate Email	enghod@mrec.ac.in																								
<b>3. Website Address</b>																									
Web-link of the AQAR: (Previous Academic Year)	<a href="http://mrec.ac.in/AOAR/AOAR%20AY%202014-15.pdf">http://mrec.ac.in/AOAR/AOAR%20AY%202014-15.pdf</a>																								
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://mrec.ac.in/academi_cal.html">http://mrec.ac.in/academi_cal.html</a>																								
<b>5. Accrediation Details</b>																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.01</td> <td>2010</td> <td>28-Mar-2010</td> <td>27-Mar-2015</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.20</td> <td>2015</td> <td>25-Jun-2015</td> <td>24-Jun-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.01	2010	28-Mar-2010	27-Mar-2015	2	A	3.20	2015	25-Jun-2015	24-Jun-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.01	2010	28-Mar-2010	27-Mar-2015																				
2	A	3.20	2015	25-Jun-2015	24-Jun-2020																				
<b>6. Date of Establishment of IQAC</b>	01-Jul-2010																								
<b>7. Internal Quality Assurance System</b>																									
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by IQAC	Date & Duration		Number of participants/ beneficiaries																						

Techno Cultural Fest - AKSHARA 2K16	11-Mar-2016 2	2456
MREC - Foundation Day	22-Aug-2015 1	854
Dr. APJ Abdul Kalam statue is unveiled on his 84th Birth Anniversary	15-Oct-2015 1	465
Engineer's Day VISHESH-2015	15-Sep-2015 1	2340
International Conference on Emerging trends in Science Technology Engineering and Management (ICETSTEM-2015)	09-Oct-2015 2	564
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**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	TEQIP	World Bank	2011 2190	4000000
Institution	Autonomous	UGC	2014 2190	0
Institution	NSS	JNUTH	2015 365	44500
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

5

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

1) Conducted Academic Audit twice in a semester. 2) Arranging Training Programs on Emerging Technologies. 3) Arranging Campus Recruitment Training (CRT) classes. 4) Mentored UG Programmes to submit Compliance Reports to NBA successfully. 5) Arranged bridge course classes for students admitted into first year (UG Programmes) and lateral entry students admitted into the second year (UG Programmes). 6) Supported students in finding internships during vacation in coordination with Industry Institute Interaction Cell (IIIC) 7) Conducted Entrepreneurship Awareness Programs for students 8) Supported faculty members to apply for Research Grants from Government and NonGovernment funding agencies.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achivements/Outcomes
JNTUH affiliation for the academic year 2016 17	Documents necessary for the affiliation are submitted to the affiliating University, Jawaharlal Nehru Technological University, Hyderabad (JNTUH)
Implementation of Choice Based Credit System (CBCS) from 2015 - 16 on wards	Implementation of CBCS started from this academic year onwards. All the students who got admitted into various programmes in this academic year in the first year, come under CBCS pattern.
Submission of compliance report for the extension of accreditation by NBA	The compliance report necessary for the extension of NBA accreditation for the UG programmes offered by the departments of Civil, Electrical and Electronics, Mechanical, Electronics and Communication, Computer Science & Engineering is submitted in the prescribed format.
Submission of SAR for the NBA accreditation of M. Tech. Structural Engineering and M. Tech. Thermal Engineering	Self Assessment Report claiming the accreditation of the two programmes is submitted in the prescribed format and manner.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Governance	23-Jan-2016

15. Whether NAAC/or any other accredited

Yes

body(s) visited IQAC or interacted with it to assess the functioning ?	
Date of Visit	24-Jun-2016
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2016
Date of Submission	24-Feb-2016
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	<p>Institution is having Management Information Systems. 1.SMS gateway to send important notifications to different stake holders. 2. Installation of CCTVs at various parts of the college. 3. Communicating important information to the stakeholders through website and conventional methods. 4.Upgradation of college website with special emphasis on MIS. 5.Paying examination fee through online portal. 6. Anytime Learning system in the Library using online portal Malla Reddy Engineering College has an informative website (mrec.ac.in). It aims at providing information to all stakeholders of the college. It has many modules like Academics, Departments, Research, Infrastructure, Examinations, Placements, IQAC. The Academics module provides information about various programmes offered, admission process and syllabus of each course. The Departments module displays the complete profile of each department like Vision, Mission, Faculty details, Infrastructure Details of department, Events Organized etc. Research module provides information about all the research activities being conducted in the college. Infrastructure module provides information about the sophisticated infrastructure facilities available at the college premises like library, hostels, various laboratories, transport facilities etc. Examinations module provides complete information for the students regarding exams like time tables, examination circulars,</p>

study materials etc. It also allows the students to check their results. Placements module aims at providing the detailed report of placement activities happening in the college. The Internal Quality Assurance Cell (IQAC) module provides information about all the academic activities conducted to enhance quality in academics. Apart from these primary modules the website is also integrated with an e-library. It also provides information about all the activities conducted in the campus. Affiliation information of the college is also displayed in website. Grievance page is also available where stakeholders can report their grievances to the college authorities. Student Dashboard is available wherein students can register and practice various courses which will help them in strengthening their employability skills.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	01	Civil Engineering	16/10/2015
<a href="#">View File</a>			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	01	16/10/2015	Computer Programming - 50501	16/10/2015
<a href="#">View File</a>				

#### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
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BTech	Civil Engineering	16/10/2015
BTech	Electrical & Electronics Engineering	13/10/2015
BTech	Mechanical Engineering	17/10/2015
BTech	Electronics & Communication Engineering	12/10/2015
BTech	Computer Science and Engineering	14/10/2015
BTech	Mining Engineering	13/10/2015
Mtech	Geotechnical Engineering	16/10/2015
Mtech	Structural Engineering	16/10/2015
Mtech	Electrical Power Systems	13/10/2015
Mtech	Machine Design	17/10/2015
Mtech	Thermal Engineering	17/10/2015
Mtech	Digital Systems & Computer Electronics	12/10/2015
Mtech	VLSI System Design	12/10/2015
Mtech	Embedded Systems	12/10/2015
Mtech	Computer Science and Engineering	14/10/2015
MBA	Management of Business Administration	17/10/2015

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Network Security	17/08/2015	236
<a href="#">View File</a>		

#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	130
<a href="#">View File</a>		

### 1.4 – Feedback System

#### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

#### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?

(maximum 500 words)

#### Feedback Obtained

Feedback is being taken from all stakeholders every year. It is being taken from the students twice a semester. The feedback is received on various aspects related to teaching skills, subject knowledge, methodology, encouraging the students, etc. Taking feedback from the students helps the faculty members to improve their teaching skills as well as subject knowledge. The faculty members who get less feedback/negative feedback are counselled by the HODs of the department concerned and will be given an opportunity to improve their skills. Besides this, they are also sent for FDPs, workshops etc to improve their skills. Feedback is being used to develop/provide infrastructure facilities to the students, smooth conduction of the institution, improve the teaching skills of the faculty, to improve placements, to encourage the students to improve their subject knowledge, etc. Once these areas are improved, naturally the institute becomes one of the top colleges. Feedback is also being taken from the parents during Parent-Teacher meetings which are organised by the departments. It also helps to develop the institute by considering suggestions given by the parents. Feedback is being taken from the alumni whenever the alumni meet is conducted or if any of the alumni visits the institute. While taking the feedback, the emphasis is made on Curriculum and Infrastructure facilities. Based on the feedback given on curriculum, the BOS will make appropriate changes in the curriculum. Infrastructure facilities are added taking feedback into consideration. Our institute also takes feedback from Employers. The employers make suggestion in the curriculum based on developments in the technology and requirements in the industry. As the BOS consists of Industry nominee, these suggestions are put forth in the meeting and necessary changes will be made in curriculum. Employers also give suggestion regarding the contents related to the labs and they will be imposed.

- Students can voice out concerns on the academic proceedings, curriculum, faculty, general requirements, laboratories and opportunities for personal and professional growth. The student feedback is for identifying opportunities for making processes in MREC more efficient and to refine the quality of teaching and learning, and course correct to achieve targets.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	180	Nil	180

[View File](#)

### 2.2 – Catering to Student Diversity

#### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2015	3700	985	290	18	12

### 2.3 – Teaching - Learning Process



2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
320	320	179	85	85	39080

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, the students mentoring system is available in the institute. Each faculty is given 20 students. A mentor-Mentee book is given to the students in which the details of the students are written. The teacher will conduct a meeting with the twenty students assigned to him/her. First he/she will discuss in general and then goes in detail about the academics and extra-curricular activities. The teacher finds out the problems that the students are facing in academics, sports, etc. Teacher also speaks to the student individually and finds out the difficulties that the students are facing in any subject. He/She notes down the problems in mentor-mentee and brings it to the notice of the faculty concerned. Besides this, the mentors will find out the students career plan and take necessary steps to guide them to achieve their goals. The mentors regularly interact with the students and closely monitor their progress. Emotional wellbeing of the students is taken care of by the Counseling Cell.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4685	320	1:15

**2.4 – Teacher Profile and Quality**

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
82	82	Nil	82	10

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2015	Balanji Reddy Mora	Assistant Professor	Prakruti Rakshak Award

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**2.5 – Evaluation Process and Reforms**

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	01	I/I	30/12/2015	02/01/2016

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	9370	0

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.mrec.ac.in/COPO/2.6.1%20AY%202015-16.pdf>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BTech	Civil Engineering	137	132	96.35

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.mrec.ac.in/SSS/SSS%20AY%202015-16.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

<b>Yes</b>
Name of the teacher getting seed money
Dr. M. Kameshwara Rao
<a href="#">View File</a>

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other	365	TEQIP	40	40

(Specify)				
Any Other (Specify)	01	Telangana State Pollution Control Board	0.25	0.25
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.042
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### 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
One day workshop "Recent Advancements in Civil Engineering"	Civil Engineering	01/08/2015
<a href="#">View File</a>		

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Fabrication Of Regenerative Braking System	Bethi Spandana	Christian College of Engineering and Technology, Bhilai, Chhattisgarh	15/02/2016	Paper Presentation
Using Deep Water Pressure At The Briny Deep To Store Energy	Chigiri Adithya	Christian College of Engineering and Technology, Bhilai, Chhattisgarh	15/02/2016	Project
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
<a href="#">View File</a>					

### 3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	3

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	46	1

International	Computer Science Engineering	39	1
International	Electronics and Communication Engineering	26	1
International	Electrical and Electronics Engineering	22	1
International	Mechanical Engineering	38	1
International	Mining Engineering	7	1
International	Master of Business Administration	9	1
International	Humanities and Sciences	21	1
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engineering	1
Electrical and Electronics Engineering	11
Electronics and Communication Engineering	1
Computer Science and Engineering	22
Humanities and Sciences	1
MBA	8
<a href="#">View File</a>	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
<b>No Data Entered/Not Applicable !!!</b>			
<a href="#">View File</a>			

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations	Institutional affiliation as
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					excluding self citation	mentioned in the publication
<b>No Data Entered/Not Applicable !!!</b>						
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	13	19	56
Presented papers	1	4	3	36
Resource persons	Nil	Nil	1	6

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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Safe Bearing Capacity of Soil	KNR Constructions Ltd	114000

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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Civil Engineering, MREC	AutoCAD	Isotech Infra Solutions	60000	25
Dr. C V N Sridhar, ME, MREC	Supply Chain Management	Pooja Priya Ltd.	35000	12
Dr.P. Obulesh, EEE, MREC	MATLAB Training	Pantech Solutions, Hyderabad	25000	10

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### 3.6 – Extension Activities

#### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Telanganaku Haritha Haaram	NSS	2	50

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#### 3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Nil	Nil	Nil	Nil
<a href="#">View File</a>			

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Unnat Bharat Abhiyan	NSS	Science day Celebrations at Govt High School	2	50
Voters Awareness	NSS	National Voters Day celebrations	2	185
Rural Health Awareness	NSS	Free Medical Camp	15	235
Swachh Bharat Mission	NSS	Village Cleaning	5	150
Haritha Haram	NSS	Telangana Haritha Haaram	2	50
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### 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research	Mrs. Srideepthi Immaneni	K L University	60
<a href="#">View File</a>			

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Mini Project	Influence of different tool design and properties of friction stir welding	CIM Technologies F-5/A, Road No: 16 Phase - I, IDA Jeedimetla, Hyderabad, Telangana 500055	25/05/2015	10/06/2015	20
<a href="#">View File</a>					

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
VEM Technologies	10/07/2015	Workshop	200
<a href="#">View File</a>			

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
113	112.45

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
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### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA software	Fully	3.15	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	46800	10679945	5315	1122889	52115	11802834
Reference Books	2628	800445	344	142760	2972	943205
e-Books	971	Nil	4173	176896	5144	176896

Journals	561	1464916	62	322322	623	1787238
e-Journals	3100	829855	11154	1629433	14254	2459288
Digital Database	1	95012	3	127466	4	222478
CD & Video	7600	50000	15251	25600	22851	75600
Others( specify)	3	74000	3	126000	6	200000
<a href="#">View File</a>						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
B. Vamsi Krishna	Fundamentals of Engineering Mechanics and Law of Forces	LMS of MREC	11/09/2015
K. Vamsi Kirshna	Fluid Dynamics	LMS of MREC	19/11/2015
Dr. P. Saritha	Interpretation of Terrain features	LMS of MREC	23/01/2016
Suresh Chandra Babu	Kani's Method	LMS of MREC	13/02/2016
P. Vinay Chary	Basic Concept of Surface Mining	LMS of MREC	21/09/2015
N. Naveen Kumar	Spontaneous Combustion	LMS of MREC	22/02/2016
Y. Sudha	Single Phase Controlled Converters	LMS of MREC	10/09/2015
Ganesh Pashikanti	Single Phase Induction Motor	LMS of MREC	10/11/2015
Shyama Satya Naga Teja	Electronic Circuits	LMS of MREC	20/01/2016
Suma Deepti Veeraganti	Power Factor Improvement and Voltage Control Techniques	LMS of MREC	09/02/2016
<a href="#">View File</a>			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	831	15	0	0	6	10	8	100	0



Added	150	2	0	0	0	0	0	0	0
Total	981	17	0	0	6	10	8	100	0

#### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS/ GBPS
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#### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Study Materials	<a href="http://www.mrec.ac.in/studymaterials.html">http://www.mrec.ac.in/studymaterials.html</a>
Question Banks	<a href="http://www.mrec.ac.in/Questionbanks.html">http://www.mrec.ac.in/Questionbanks.html</a>
Previous Year Question Papers	<a href="http://www.mrec.ac.in/Previous_Question_Papers.html">http://www.mrec.ac.in/Previous_Question_Papers.html</a>
DELNET	<a href="http://www.delnet.nic.in">www.delnet.nic.in</a>
DELNET E-Journal (Management)	<a href="http://164.100.247.25/basisbwdocs/management.html">http://164.100.247.25/basisbwdocs/management.html</a>
DELNET E-Journal (Computer Science)	<a href="http://164.100.247.25/basisbwdocs/computer-science.html">http://164.100.247.25/basisbwdocs/computer-science.html</a>
DELNET E-Journal (Education)	<a href="http://164.100.247.25/basisbwdocs/education_journal.html">http://164.100.247.25/basisbwdocs/education_journal.html</a>
IEEE -ASPP Package(e-journals)	<a href="http://www.ieeexplore.ieee.org">www.ieeexplore.ieee.org</a>
J-Gate (JET)(e-Journals e-Books)	<a href="http://www.jgateplus.com">www.jgateplus.com</a>
Springer (Mechanical) e- Journals	<a href="http://www.springerlink.com">www.springerlink.com</a>
Wiley Blackwell Civil Engineering ( e-journals e-books)	<a href="http://www.onlinelibrary.wiley.com">www.onlinelibrary.wiley.com</a>

#### 4.4 – Maintenance of Campus Infrastructure

##### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2735000	2628380	1822200	1752800

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The institution has a permanent manager who is responsible for all facilities, whether it adds facilities or retention jobs. The buildings are periodically managed for renovation and repair. The houses, corridors and other areas are kept tidy and safe by the home keeping team. The washrooms are kept periodically by a team to keep them available. They are responsible for maintaining the laboratory equipment for its working conditions in departments

controlled by their representatives. Prior to the start of the academic year the HODs will arrange for all their laboratories for repairs and maintenance for the academic year concerned. They classify the departments that will perform repairs and ready equipment before the start of each semester. An IT cell is operated by the institutions senior faculty member to supervise the purchase, repair and replacement of equipment including computers , printers, projectors and others around the institution in the field of information technology. The Institute shall budget for maintenance and use of campus infrastructure facilities under various headings. Adequate maintenance and repair funding was distributed by the Institute Planning Committee. Different supervisory committees such as the Purchasing Committee, the Maintenance and Repair Committee, the Sports Committee, the Library Committee, the Maintenance of the laboratory, Student Input Committee etc. are in charge of the funding allocation. To maintain and upkeep the infrastructure Institute facilities and equipments, following activities are undertaken by college:-

- There is Stock Maintenance Committee in every department, who maintains the stock register by physically verifying the items round the year.
- Department wise annual stock verification is done by concerned Head of the Department.
- Regular maintenance of Computer Laboratory equipments is done by Laboratory Assistant along with Laboratory attendant and they are headed by Lab Maintenance Committee Convenor.
- Overall development of campus is done by Campus Discipline and Cleanliness Committee of the college.
- Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute Fourth Class Employees.
- College campus maintenance is monitored through regular inspection.
- Upkeep all facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel monitoring committee.
- Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. Updating of softwares is done by lab assistants.
- Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing.
- Regular maintenance of the water cooler and water purifier is done by outsourcing agent.
- The maintenance of the reading room and stock verification of library books is done regularly by library staff.

[http://mrec.ac.in/infra\\_overview.html](http://mrec.ac.in/infra_overview.html)

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit Scholarship	48	168000
Financial Support from Other Sources			
a) National	Telangana E-Pass	2480	85960000
b) International	Nil	Nil	0

[View File](#)

#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill Development	09/11/2015	1089	Talent Sprint

Remedial Classes	24/08/2015	2632	Internal Faculty (MREC)
Language Lab	15/06/2015	1535	Internal Faculty (MREC)
Bridge Courses	17/08/2015	1049	Internal Faculty (MREC)
Yoga Meditation	09/10/2015	1138	Internal Faculty (MREC)
Personal Counseling	16/07/2015	7481	Internal Faculty (MREC)
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2015	PLACEMENT and TRAINING	Nil	Nil	Nil	455
2015	GUIDANCE and COUNSELLING	Nil	455	Nil	Nil
2016	GATE/GRE	Nil	Nil	49	Nil
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	8

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
35	650	606	30	230	70
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
<b>No Data Entered/Not Applicable !!!</b>					
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	6
GRE	24
TOFEL	26
Any Other	2
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Sports	Institute Level	96
Cultural Activities	Institute Level	77
<a href="#">View File</a>		

**5.3 – Student Participation and Activities**

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
<b>No Data Entered/Not Applicable !!!</b>						
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The establishment unequivocally thinks about that the advancement of the foundation is on the commitment of every one of its partners, for example, understudies, the staff, the workforce and the administration. For that, the foundation has set up different understudy part boards. The understudy agents are chosen from each class and assigned them to different understudy board advisory groups. These boards comprise of understudies and employees in different scholarly and organization bodies, for example, specialized, social, social, Sports, NSS and different panels dependent on the understudies advantage. Every panel has its own chief body with the personnel and understudy delegates, so they work under the administration of the employees. The understudies scatter the data from school organization and different panels to all the understudies. The individuals from these understudy gatherings are relegated various situations in scholastic and managerial bodies for the smooth lead of the apparent multitude of occasions or exercises in the grounds. The principle goal of these councils is to guarantee the persistent and smooth direct of different exercises in the grounds each year. The chamber is answerable for leading various occasions and exercises during the time in the grounds, for example, curricular, co-curricular and extracurricular exercises where the understudies help the instructors in orchestrating, arranging and executing various exercises dependent on their advantage. Notwithstanding, the understudy agents go about as facilitators among understudies and workforce for the trading of their perspectives and suppositions. These boards of trustees guarantee that the most extreme dynamic cooperation and commitment of the understudies and employees in different occasions and exercises led by the organization. The exercises of the understudy board are led by the dynamic interest of all the employees. The understudy gatherings direct various

exercises and occasions in the school reason, for example, specialized, non-specialized fests, workshops, meetings, visitor addresses, praising unique days and leading different rivalries for the understudies by the understudies. The understudy gathering delegates effectively partake in different expansion exercises, for example, Swachh Bharat Abhiyan, Tree estate, Yoga Day in June, Blood Donation Camp, observing Engineers Day in September, Mehendi and Rangoli Competitions in January, etc so forward. The understudy delegates in various boards of trustees perform different capacities, for example, arranging sports day and social occasions. The establishment furnishes understudies a chance to connect with the business specialists and get familiar with the latest advancements in the examination and in their specializations. It handles the issues of understudies in the grounds, and the equivalent can be conveyed to the head. Different duties of the understudy chambers remember the support of control for the grounds and keeping the establishment spotless and green. Viably working in understudy gatherings, the understudies get an opportunity to speak with the employees, the staff, the head and the administration. Appropriately, this data help understudies to create administration aptitudes and the board abilities through dynamic commitment.

## 5.4 – Alumni Engagement

### 5.4.1 – Whether the institution has registered Alumni Association?

Yes

(i) Yes the institution has an active registered Alumni association, the registration is renewed every year. Malla Reddy Engineering College (Autonomous) has begun its graduated class relationship with hardly any individuals. It includes governing body with President, Vice-president, Secretary, Treasurer and General Secretary and Executive body and they expand their ceaseless compatibility with the establishment. New body is chosen once in at regular intervals. The graduated class affiliation is dynamic in advancing associations and kinship among the graduated class, staff and the administration. Other than helping the graduated class in every single imaginable ways, it likewise loans its help to the school to accomplish its esteemed objectives, its vision and mission. The administration effectively partakes in all the exercises directed by the alumni association. Our top former students are put in numerous lofty associations, the greater part of them are releasing their duties in various positions like Software Engineers, R D Engineers, NDT Engineers, System Engineers, Tech Support Engineers, Software Testers and other government associations. The graduated class affiliation diagrams the ethical, scholarly and mental impression of the understudies as they get various open doors for participating in cycles of picking up, examining and investigating about the commonsense information. Graduated class gatherings are led each year to help the current understudies for making mindfulness about different business openings that are available in this vicious serious world and the vital techniques to meet the necessities of serious assessments like GRE, TOFEL and other employment situated tests in open area. The affiliation arranges visitor teachers, temporary position projects, workshops and classes on different aptitudes to improve students information in specialized and non-specialized regions. It propels understudies to pick advanced education in Indian and abroad. The graduated class day is led each year in the long stretch of July. Students who have finished their B.Tech/M.Tech/MBA course can enroll in the alumni association. (ii) The members meet at least once in a year and discuss all the issues pertaining to the development of the institution both academically and otherwise. (iii) The alumni participation basically is in areas of identifying the gaps between the levels of learning within the campus and the levels of learning expected by the industry. (iv) The institution arranges lectures by alumni in different departments so that the students can be motivated to prepare themselves for

careers in an environment of global competition.

5.4.2 – No. of registered Alumni:

1215

5.4.3 – Alumni contribution during the year (in Rupees) :

64300

5.4.4 – Meetings/activities organized by Alumni Association :

i) Alumni day is usually conducted once in a year. The Alumni are invited for the same. (ii) Three alumni meetings will be conducted per year. (iii) Inviting alumni to give awareness programs.

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Decentralization and Participative management: The institution has a decentralized and direct framework in the board, association, cash related and academic endeavors. This instrument is allocating reasonable obligations from the elevated level organization to low level organization and licenses the top organization to focus in on system making and huge decisions. i. Governing council is the most raised powerful body which characterizes/changes rules and rules, delegates powers and commitments to various Committees, Principal, Heads of the Departments (HoDs), Heads of the Sections. The constitution of lawful bodies like Governing chamber, Academic Council, Finance Committee, Board of Studies are intentionally finished with shown limits and obligations as indicated by the necessities to the authoritative/lawful bodies. These sheets expect a critical capacity in methodology formation of organization, scholastics, cash, assessment and instructing learning. The Principal ensures the smooth working of the foundation with the assistance of Deans, There are 31 non-lawful boards working inseparable in perceiving possibilities, orchestrating, figuring out, executing and watching all the activities of the establishment. The Institute acknowledges that the improvement of the Institute and achievement of significant worth endless supply of the agents of the Institute. ii. The decentralized mechanism exists even at the department levels. Each office has Program organizers at UG and PG level to care for the exercises of each program. Choices at division levels are taken by all around organized panels like Department Academic council, Board of Studies, Department Development Committee, Class Review Committee. HODs are welcomed for the Governing chamber meeting and the Governing board individuals and the executives associate to build up a guide for the improvement of the offices and the foundation. All Stakeholders of the organization have participative functions in different dynamic panels. Outer partners like Statutory bodies candidates, State government Nominees, University chosen people, Industry specialists, Employees, Educationists, Scientists, possess 20 of all the board individuals. Personnel involves 55 and Students, Alumni possesses 15 of the advisory group individuals. The staying 10 of the board individuals incorporates Management. The contribution of the executives and all the partners including Head of the Departments, Faculty, Students, Alumni, bosses, industry specialists, educationalist, researcher, network agents is altogether seen in different useful advisory groups of the organization. This observers that the organization has decentralization of organization through panels and has participative administration. A majority rule approach is arrangement in the dynamic cycle, by which all the partners of the establishment could take an interest in the administrative choices

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admission of the students takes place through the exam (EAMCET) conducted by the state government. PG Admissions are through GATE PGECET and MBA admissions through ICET. 70 of the seats are filled through counseling and 30 of the seats are directly filled by the management based on the merit of students. Reservations are followed as per the norms.
Industry Interaction / Collaboration	Industry - Institute Interaction Cell has been formed. The Cell takes care of the following 1) Technical Talks/Invited seminars 2) Industrial visits/tours 3) Students' project works/internships 4) MOUs (Memorandum of Understanding) with Industries
Human Resource Management	As a part of Quality Improvement programme, review and enhancement of HR policies and procedures of the institution has been completed and an updated and comprehensive HR framework would be in place before the beginning of the academic year.
Library, ICT and Physical Infrastructure / Instrumentation	The digital library has been reinforced with the latest version computers replacing the older ones. The digital content under licence is continued by renewing the licence annually. All laboratories have been renovated and refurbished. First year block has been renovated and all the class rooms of first year are supported by LCD projector. English Language Laboratory has been established in all the departments so that students access easily and improve their communication skills.
Research and Development	The Institute has established Research and Development Cell. All the activities pertaining to RD are monitored by RD Cell. Few faculty members have received projects from various bodies like UGC, ISTE, etc. The Institute encourages the faculty members to publish research papers in well reputed journals. The Institute gives cash rewards to faculty who

publish papers in well reputed journals like Scopus Indexed, Web of Science, etc. The institute also encourages faculty to attend seminars, conferences, FDPs and Workshops

Examination and Evaluation

- Continuous internal assessment is done through conducting various tests from time to time.
- Two theory mid semester exams, two assignment tests and two mid-practical exams are conducted for each paper of the subject in each semester for B. Tech ., M. Tech and MBA Programs.
- In between, seminars, group discussions, show and tell and quizzes etc activities are also conducted.
- Mini project done by the student is continuously reviewed at 3stages.
- Once the tests are finalized, the marks of the student are uploaded in database with EMS software and the physical copies of the marks lists along with the mid semester answer scripts are submitted to the exam branch for further scrutiny and storage.
- The institute has changed student evaluation system from Percentages to Grading System.
- For Semester End Examinations, question papers are set by the senior faculty members of reputed Institutions and Evaluation is done by the external faculty only

Teaching and Learning

The institution has been following student centric Teaching and Learning methods for the past four years. The faculty continuously improve the delivery system by adapting the PDCA (Plan, Deliver, Check, Act) cycle. The faculty identifies outcomes to be realized by the students after completing the course. They carefully design the delivery content, student participation activities and the assignments to be completed by the students during the semester for every subject. Then they go about implementing their plan to the last detail. A continuous evaluation of the progress made by the students has been adopted. As a part of continuous evaluation process three internal assessment tests are conducted apart from other methods of evaluation by the faculty. The institution has adapted to put into practice a novel idea in teaching-learning process from the current semester. The innovative



practice aims at active learning process of the students by involving them to come pre-prepared with concepts to each and every class, participate in group learning inside the classroom facilitated actively by the faculty in a series of pre-planned steps. The innovative exercise has been implemented in collaboration and guidance of accelerator, an organization dedicated to the cause of augmenting student-centric learning through modern digital learning platform. The implementation has been limited to only few specific subjects on an experimental basis. The emphasis has shifted to the practice of outcome based education (OBE) by every faculty across the institution as the institution has set its goal to get accreditation by NBA

Curriculum Development

Curriculum development is done systematically in our Institute. Every department has forms its own Board of Studies (BOS). BOS contains University nominee, Subject experts from reputed universities/Institutions, Industry experts and internal faculty. BOS is conducted once in a year. Curriculum is changed once in two years considering changes in technology and requirements of the industries. The Institute encourages the faculty to contribute to enrich the curriculum during course of its revision. After the completion of BOS, the recommendations are forwarded to the Academic Council for its approval

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>E governance in various planning and development levels of the Institution is in place through the scheduling , conduct and maintenance of minutes of meetings and resolutions made out of Governing Council , Academic Council, Finance committee meetings for the policy making, approvals etc. Translation of these policies into action plans are thoroughly deliberated upon in IQAC meetings, Institute Academic Committee meetings , Research Advisory Board meetings etc.</p>
<p>Administration</p>	<p>This module provides support for day to day functionality of Institute Administration- Faculty induction,</p>

	<p>Leave management, service record maintenance, staff welfare measures etc. It has the features for creating holidays, Various Leaves, creating user and assign roles, reference data, service book, Pending Approvals, Employee's Shift, and Employee ID Card etc. It also defines workflow at various decentralized functionaries.</p>
Finance and Accounts	<p>The institution has been using competent software to maintain and manage the inflow and outflow of the finances. The accounting starting from the foundation entries till production of statement of accounts and financial reports required for strategic management, in particular strategic planning are being produced through usage of software</p>
Student Admission and Support	<p>This module makes admission process automated. E-Announcements for admissions are made through this module and E-Applications are invited through web portal for getting admission into various programmes offered by the institution. It generates the report on the seats allotment by convener and its status like sliding of branches etc. Out of the students applied for seats under B Category merit list is prepared and seats are allotted in the order of merit. Roll lists are also generated along with student profile creation</p>
Examination	<p>Our Institute has adopted online transaction for the payment of examination fee. Once the fee is paid, the receipt is generated. Then the examination branch generates hall tickets for the students who have paid exam fee through online, Students can also apply for revaluation through online process only. The exam branch uses 'BEES' software for online transactions and to complete the process of the system. The OMR sheets of theory and practical examinations are scanned by software and the marks are up loaded. The results are directly sent to the parents using the software.</p>

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial	Name of the professional body for which membership	Amount of support
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		support provided	fee is provided	
2015	Gayathri Upadhyay	The Indian Society for Technical Education (ISTE)	The Indian Society for Technical Education (ISTE)	3500
2015	Dr.P.Rajasekhar	Design of experiments- Research orientation	Annamacharya Institute of Technology	1000
2015	R. Sumathi	Innovative concepts New Dimensions in Pharmaceutical sciences	MRCP, HYDERABAD	1000
2015	P. Ashok Babu	One week Faculty Development Programme on "Entrepreneurship Skills"	JNTU Hyderabad	1000
2015	B Srinivas	Workshop on "Embedded LINUX on ZYNQ-7000 SOC using VIVADO"	Malla Reddy College of Engineering Technology	1000
2016	B. Vamsi krishna	2nd International Conference on Sustainable Energy and Built Environment	VIT, Vellore	5000
2016	Ms.Naga Sujatha	2nd International Conference on Sustainable Energy and Built Environment	VIT, Vellore	5000
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2015	International Conference	Nil	09/10/2015	10/10/2015	500	Nil

	on Emerging trends in Science Technology Engineering and Management (ICETSTEM-2015)					
2015	One day workshop on tests on concrete	Nil	04/11/2015	04/11/2015	100	Nil
2015	Recent Advances in Manufacturing	Nil	26/12/2015	26/12/2015	25	Nil
<a href="#">View File</a>						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Design of experiments- Research orientation	11	01/12/2015	02/12/2015	2
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
82	82	22	22

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Health Insurance, Provident Fund	Health Insurance, Provident Fund	Health Centre, Aid for the Students participating in Events outside college.

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Financial audit is regularly done in the institute. It is done in two forms Internal and External audit. Internal audit is done by the faculty of the institute nominated by head of the institution. A committee is formed in every department. These committees visit the other departments and thoroughly verify the files related to finance. After the verification is done, the report will be submitted to the authority. The external audit is done by parent university

Jawaharlal Nehru Technological University Hyderabad (JNTU, Hyderabad) and the external company called MRK Reddy Co., Chartered Accountant. The company verifies all the files related to finance incurred for various purposes.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
CMR Educational Society	150000	Faculty Achievements
No file uploaded.		

6.4.3 – Total corpus fund generated

0
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## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	JNTU Hyderabad.	Yes	Internal Quality Assurance Cell
Administrative	Yes	MRK Reddy Co., Chartered Accountant	Yes	Internal Quality Assurance Cell

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

(1) During orientation and Parent Teacher Meeting (2) Supporting the institutional ethos and values (3) Feedback on regular basis
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6.5.3 – Development programmes for support staff (at least three)

(1) Industrial guest lecture on construction safety management (2) Best practices in office administrations (3) Arc Welding, Casting and Carpentry (4) One Day Workshop on "Circuit Simulation using TINA Software" (5) Emerging Trends in Computer Science (6) Workshop on MS Office (7) Recent studies on Global Warning
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

(1) RD activities have been improved (2) Library resources are updated (3) Industry involvement in curriculum design and content delivery
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2015	Internatio nal	09/10/2015	09/10/2015	10/10/2015	564

	Conference on Emerging trends in Science Technology Engineering and Management ( ICETSTEM-2015)				
2015	Engineers Day VISHESH-2015	15/09/2015	15/09/2015	15/09/2015	2340
2015	Samsung ,Tizen Training TASK registered Colleges	05/10/2015	05/10/2015	10/10/2015	1243
2015	Dr. APJ Abdul Kalam statue is unveiled on his 84th birth anniversary	15/10/2016	15/10/2015	15/10/2015	465
2016	Graduation Day	11/06/2016	11/06/2016	11/06/2016	1324
2016	AKSHARA 2K16	11/03/2016	11/03/2016	11/03/2016	2456
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Bathukamma panduga - Local floral festival	17/10/2015	17/10/2015	220	Nil
Karthika Vana bhojanaalu	14/11/2015	14/11/2015	150	240
Sankranthi samburalu - Local harvest festival	09/01/2016	09/01/2016	450	850
International Women's day	08/03/2016	08/03/2016	820	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Biogas is distinct from other renewable energies because of its characteristics of using, controlling and collecting organic wastes and at the same time producing fertilizer and water for use in agricultural irrigation. Biogas contains 50 - 70 methane and 30 - 50 carbon dioxide along with small amounts of other gases and typically has a calorific value of 21 - 24 MJ/m<sup>3</sup>. Calorific value of kitchen waste is high and nutritive value to microbes. It means higher efficiency and this reduces the reactor size and cost of biogas plant. MREC(A) campus generates about 100Kg of bio-waste per day. The bio-waste generated however is treated with in the campus itself. The bio wastes generated are plant leaves and the kitchen waste and the leftover food. These are collected and are sent to the biogas plant installed within the campus boundary and used as feedstock for the small biogas plant. These bio-wastes such as leftover food, vegetable and fruit cuttings, paper, plant leaves etc are converted into bio-gas which is piped out to the kitchen to be used as fuel in gas stoves for cooking and heating. This reduces the gas bill and additional purchase of gas. Thus, both bio-waste problem is solved and energy is generated which solves both the problems. The solid waste remaining at the end of the process of bio-gas generation is high quality organic manure which is utilized for campus plants. This renewable energy supplements day to day energy requirements of the college

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	7

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2015	1	Nil	31/10/2015	1	Rashtryia Ektha divas	Inspiring incidents from Mr Vallabh Bhai Patels life were shared	250
2015	Nil	1	12/12/2015	1	Blood donation camp	To inculcate the sense of service to the society	165

						among the students	
2016	Nill	1	12/01/2016	1	National Youth Day	Lecture on Personality development arranged.	220
2016	1	Nill	25/01/2016	1	National Voters day celebrations	Educated the participants about Importance of Vote in democracy	500
2016	Nill	1	16/02/2016	1	Swacch Bharath campaign	Educated the local villagers about the importance of cleanliness	150
2016	Nill	1	27/02/2016	1	Science day celebrations at Govt. High School	Educating the upper primary and high school students towards Science	30
2015	Nill	1	16/07/2015	1	Telanganaku Haritha Haaram	Plantation of trees in the campus	60
2015	1	Nill	05/09/2015	1	Teachers day	Address by swamy Poornabodhananda	200
2015	Nill	1	24/09/2015	1	NSS day	Volunteers were appraised the objectives and motto of NSS.	50
2015	1	Nill	15/10/2015	1	Dr. APJ Kalam birth anniversary celebrations	Dr. Kalams valuable services to the nation	200



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### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Human Values and Professional Ethics for students	29/06/2015	Subject called Human Values and Professional Ethics is introduced in the CBCS curriculum as Mandatory Course with 2 credits with the subject code 50H11. This subject covers elaborately the following topics - Human values, Professional Ethics, Life skills, Harmony in human beings vs harmony in self, Responsibilities and rights, Global issues

### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Anti ragging awareness programme	18/08/2015	18/08/2015	800
Awareness on Environmental pollution	19/08/2015	19/08/2015	300
International day of Yoga	21/06/2016	21/06/2016	200

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### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Tree plantation Bio gas plant Lush green campus - Lawns and trees Well ventilated Class rooms and laboratories - to reduce Power consumption Green audit Litter free campus

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. Mandatory Paper Publication by PG Students Objective The main objective of having paper publication by PG student is to make them fit for the competitive world. The two essential reasons are 1. To make everyone in the field aware of the research they have conducted. Other people may read and benefit from their work. 2. To gain respect of their peers and boost their knowledge, so that they apply for the next job, they can actually objectively prove that they are indeed doing 'good' research. Content Writing is the most important means for communicating his scientific work of a student. There are many reasons for writing a research paper. The most compelling reason for many professionals to start writing is to fulfill specific job requirements by employers that include promotion to an academic position, professional accreditation in the form of continuing education and improving prospect of success in research grant application. Publications can also be regarded as an asset that enables authors to gain recognition and acknowledgement as experts in a particular field at

national and international levels. Publication in peer-reviewed journals also gives international recognition for an individual. In some cases where a topic of major global importance is included in a publication, the authors country, and even the region, may also get a greater recognition. Writing an article and going through the peer review and editing processes can be difficult and time-consuming. Students may wonder if the end result is worth adding the extra commitment to their schedules. However, having an article published as an postgraduate has a wide variety of benefits and can present new opportunities to students involved in the publication process. Here are a few of the reasons to consider publishing as an postgraduate: 1. To help improve writing and research skills. The process of researching, writing, editing, and publishing an article for the first time will provide valuable feedback on what steps may require improvement and where strengths may be. Going through these steps will improve writing and research skills that will be useful in postgraduate studies or a professional career. 2. To experience the scholarly publication process. Publication is a requirement in many disciplines. Going through the process as an postgraduate will make the experience familiar when it may be required later. It will also provide context and understanding of the field. 3. To connect with professors and researchers. Faculty in the department the journal is connected to will likely be involved in the publication or post-publication process. Publishing in the journal will help connect students to those faculty members in a way that isn't often achieved in the typical classroom setting.

Publishing may also help students connect with other professionals and researchers in the field, providing new opportunities for collaboration and future study. 4. To display leadership and initiative. Working as part of the editorial team or being involved in the publication process is hard work.

Faculty, employers, and graduate school admissions committee members will understand this and recognize pursuing this endeavor as an example of leadership and drive. 5. To professionalize the postgraduate experience. Having a published paper will provide a certain level of professionalization to a resume that many postgraduates do not have. It will signal to postgraduate committees and employers that steps were taken to seriously pursue research interests. Published paper may also be useful as a writing sample in postgraduate applications. 6. To inform a future career path. The process of publishing a paper may help inform a future career path and illuminate opportunities that may otherwise have not been considered. It may attract a student's interest in pursuing publishing or research studies as the next step after completion of an postgraduate degree. Alternatively, it may confirm to other students that they wish to pursue other interests outside of academia.

Working with faculty and other student researchers will allow students to enter a scholarly community that may help them decide on a future career path. Either way, the process will be valuable in assisting students in deciding what the next step will be. Problem encountered and resources required. The publication of the student has to meet with the global requirement. In order to check the content of the journal and their originality, it will be checked for plagiarism. The college has plagiarism software called "Turnitin" which results are accepted globally. This will help the students have a confidence that they may publish their paper in a reputed journal.

2. Introduction of Choice Based Credit System (CBCS) curriculum from the academic year 2015 - 16 onwards  
Objective To encourage students to take up interdisciplinary studies by providing wide variety of subjects as electives  
Context The University Grants Commission (UGC) and the affiliating University Jawaharlal Nehru Technological University, Hyderabad (JNTUH) insisted on the implementation of Choice Based Credit System (CBCS) from the academic year 2015 - 16 onwards by all the autonomous colleges under JNTUH. The Practice Numerous brain storming sessions were conducted both at the college level and at the department level to understand the philosophy of CBCS. The curriculum set by the eminent institutes / deemed to be universities were thoroughly studied to master the concept.

Orientation sessions by knowledgeable persons were conducted Evidence of Success Informally, the affiliating University, JNTUH lauded the colleges efforts in shaping the curriculum under CBCS pattern and directed other institutions which struggled in coping with this new pattern to approach our college for any kind of intellectual support. Problems Encountered and Resources required: Clarity on various concepts like the concept of credit, distribution of the number of credits to core and supporting departments, understanding the concepts of Audit course, Mandatory course, etc, educating the faculty on the concepts of Blooms taxonomy were few of the problems encountered. Brainstorming sessions by the in house faculty who were experts in the subject helped to some extent. Special awareness sessions by eminent professors from the affiliating university largely helped.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<http://www.mrec.ac.in/NAAC/Criterion7/BP%202015%20-%2016.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The institute got A grade in Cycle - I accreditation by National Accreditation and Assessment Council in the year 2010, valid for a period of five years. Subsequently the institute applied for Cycle - II accreditation by NAAC in the year 2014 - 15 and got accredited with A grade, with a CGPA of 3.20, valid for five years till June 2020. As per the guidelines of University Grants Commission (UGC) and the instructions of the affiliating university, Jawaharlal Nehru Technological University, Hyderabad (JNTUH) the institute implemented Choice Based Credit System (CBCS) for the students admitted from 2015 - 16 academic year onwards. The institute started a journal to publish the quality research papers across various streams. This journal is titled Journal of Research in Science, Technology, Engineering and Management (JoRSTEM). It will be a quarterly journal with four issues in a calendar year. The first issue is released on the occasion of Engineers day on September 15, 2015. With the intention to bring out the creative and innovative talent in the students, a student Project Expo Vishesh is conducted every year on Engineers day. Numerous workshops are conducted for the benefit of students, particularly in association with Telangana Academy for Skills and Knowledge (TASK). Also numerous FDPs are organised to help the faculty members in updating their knowledge. The institute organised a two day conference titled International Conference on Emerging Trends in Science, Technology, Engineering and Management (ICETSTEM 2k15) from Oct 9 - 10, 2015. The institute celebrated World Students day on the occasion of the birth anniversary of the former President and eminent scientist, the missile man of India, Dr. A. P. J. Abdul Kalam on 15 October 2015. The National Service Scheme unit of the institute conducted numerous social service activities like Free health check up camp, Blood donation camp. Also the institute celebrated the National Youth Day on Jan 12, 2016. A two day techno cultural fest Akshara 2k16 is organised from March 13 - 14, 2016. The institute entered into MoUs with various organizations, the most important among which is SAP. This MoU with SAP could be materialised due to the involvement of TASK. The institute celebrated International Day of Yoga on June 21, 2016. The U. G. branches of engineering - C. E., E. E. E., M. E., E. C. E. and C. S. E. got accredited by the N. B. A. in the year 2014 - 15 with 2 years validity i.e., till 2015 - 16. Therefore, a compliance report is prepared in the prescribed format and submitted, so as to claim extension of the N. B. A. accreditation for the academic year 2016 - 17. Also the PG programmes M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) got eligibility to apply for the accreditation by NBA. The

necessary Self Assessment Reports are prepared and sent to NBA for further processing.

Provide the weblink of the institution

<http://www.mrec.ac.in/NAAC/Criterion7/ID%20AY%202015-16.pdf>

### **8.Future Plans of Actions for Next Academic Year**

i. To achieve N.B.A. reaccreditation for the U.G. branches of Civil Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering and Computer Science Engineering. The undergraduate programmes in Civil Engineering and Computer Science Engineering were accredited by N.B.A. for the first time in the year 2014 - 15 while those in Electrical and Electronics Engineering, Electronics and Communication Engineering and Mechanical Engineering were accredited for the second time. Initially the accreditation was given for a period of two years till 2015 - 16. Upon the submission of compliance, the accreditation for all the above branches was extended till the year 2016 - 17. A rigorous effort is planned in the upcoming year to apply in the prescribed format for renewal of N.B.A. ii. To organize National Conference in the emerging areas of Electrical and Electronics Engineering, Electronics and Communication Engineering and Computer Science Engineering. Research has a vital role to play in higher education in general and engineering education in particular. In this context, conferences help the faculty a lot in continuously updating their knowledge with the recent developments in their field of engineering. Also conferences provide a wonderful platform to establish professional contacts that will help the faculty members in taking up quality research. The key note lectures and expert lectures help the faculty members in identifying and understanding the most recent research problems. In order to give such benefits to the faculty members the institute plans to organize a national level conference in the emerging areas of Electrical and Electronics Engineering, Electronics and Communication Engineering and Computer Science Engineering in the month of November. The titles of the conferences are as mentioned below. The conference planned by the department of Electrical and Electronics Engineering is National Conference on Recent Innovations in Electrical Engineering (NCRIEE 2016) while that planned by the department of Electronics and Communication Engineering is National Conference on Communications, Signal Processing and VLSI (NCCSPVLSI 2016). Similarly the conference scheduled by the department of Computer Science and Engineering is National Conference on Computational Intelligence, Computing Networks. (NCCICN - 2016).