



Yearly Status Report - 2014-2015

Part A

Data of the Institution

1. Name of the Institution	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

2. Institutional Status					
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.		08885542037			
Mobile no.		9440361207			
Registered Email		iqac@mrec.ac.in			
Alternate Email		enghod@mrec.ac.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://www.mrec.ac.in/AOAR/MREC-%20AQAR%202013-14.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://mrec.ac.in/Academics/AcademicsCalendar			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.01	2010	28-Mar-2010	27-Mar-2015
6. Date of Establishment of IQAC			01-Jul-2010		
7. Internal Quality Assurance System					
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	

A Three Day Pedagogy Training	27-Feb-2015 3	40
Effective Communication A Practical Approach	07-Nov-2014 3	100
Engineer's Day VISHESH-2K14	15-Sep-2014 1	2534
National Conference on Emerging Trends in Science Technology and Management (NCETSTM)	08-Aug-2014 2	200
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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	JNTUH	2014 365	44500
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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 :

4

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

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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) Academic feedback collection, analysis, and counseling. 2) Training programmes on emerging technologies for faculty. 3) MoUs with topnotch industries . 4) Sensitizing students to environmental issues. 5) Necessary follow up of prompt implementation of academic calendar.

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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
Office automation	Procured ERP solutions software from Bees' software that supports routine administrative procedures. It also enabled the students to pay the examination fee online.
JNTUH affiliation for the academic year 2015 - 16	Documents necessary for the affiliation are submitted to the affiliating University, Jawaharlal Nehru Technological University, Hyderabad (JNTUH)
To retain NAAC A grade and improve CGPA	The Institute was awarded A grade by NAAC with a CGPA of 3.01 in cycle I. Now in Cycle II Accreditation, NAAC awarded the institute A grade with CGPA of 3.20.
Organizing NCETSTM 2k14	A two day National Conference on Emerging Trends in Science, Technology and Management (NCETSTM 2k14) is successfully organized by all the departments from Aug 8 and 9, 2014.
Awareness program to the students on Emerging Technologies	A awareness program on Blue Mix Services based on Cloud Technologies is organized in association with India Software Labs and IBM.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Governance	24-Jan-2015

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

04-May-2015

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2015

Date of Submission	20-Feb-2015
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Management Information system is available in the college. It is used for the following Institutional activities. 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, 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</p>

is also integrated with an elibrary. 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	07/05/2014
BTech	02	Electrical and Electronics Engineering	06/05/2014
BTech	03	Mechanical Engineering	09/05/2014
BTech	04	Electronics and Communication Engineering	26/04/2014
BTech	05	Computer Science and Engineering	10/05/2014
BTech	25	Mining Engineering	01/05/2014
MBA	1E	Master of Business Administration	10/05/2014
Mtech	07	Electrical Power Systems	06/05/2014
Mtech	54	Power Electronics and Electrical Drives	06/05/2014
Mtech	75	Control Systems	06/05/2014

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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	Civil Engineering	07/05/2014	English -- 40E01	07/05/2014

BTech	Civil Engineering	07/05/2014	Engineering Physics - I -- 40P01	07/05/2014
BTech	Civil Engineering	07/05/2014	Engineering Chemistry - I -- 40C01	07/05/2014
BTech	Civil Engineering	07/05/2014	Mathematics - I -- 40M01	07/05/2014
BTech	Civil Engineering	07/05/2014	Computer Programming -- 40501	07/05/2014
BTech	Civil Engineering	07/05/2014	Engineering Drawing - I -- 40301	07/05/2014
BTech	Civil Engineering	07/05/2014	English & Professional Ethics -- 40E02	07/05/2014
BTech	Civil Engineering	07/05/2014	Engineering Physics - II -- 40P02	07/05/2014
BTech	Civil Engineering	07/05/2014	Engineering Chemistry - II -- 40C02	07/05/2014
BTech	Civil Engineering	07/05/2014	Mathematics - II -- 40M02	07/05/2014
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Embedded Systems	26/04/2014
Mtech	Advanced Manufacturing Systems	09/05/2014
Mtech	Machine Design	09/05/2014
Mtech	Electrical Power Systems	06/05/2014
Mtech	Power Electronics and Electrical Drives	06/05/2014
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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
Mtech	Thermal Engineering	09/05/2014
Mtech	Advanced Manufacturing Systems	09/05/2014
Mtech	Digital Systems & Computer Electronics	26/04/2014

Mtech	VLSI System Design	26/04/2014
Mtech	Embedded Systems	26/04/2014
Mtech	Computer Science and Engineering	10/05/2014
Mtech	Computer Science	10/05/2014
MBA	Management of Business Administration	10/05/2014
BTech	Civil Engineering	07/05/2014
BTech	Electrical & Electronics Engineering	06/05/2014
BTech	Mechanical Engineering	09/05/2014
BTech	Electronics & Communication Engineering	26/04/2014
BTech	Computer Science and Engineering	10/05/2014
BTech	Mining Engineering	01/05/2014
Mtech	Geotechnical Engineering	07/05/2014
Mtech	Transportation Engineering	07/05/2014
Mtech	Structural Engineering	07/05/2014
Mtech	Control Engineering	06/05/2014
Mtech	Control Systems	06/05/2014
Mtech	Electrical Power Systems	06/05/2014
Mtech	Power Electronics and Electrical Drives	06/05/2014
Mtech	Machine Design	09/05/2014

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
Advanced Surveying Techniques in Civil Engineering	11/09/2014	56
MATLab Applications on Control Systems Power Electronics	26/09/2014	65
AUTOCAD	02/02/2015	240
CATIA	02/02/2015	212
PRO E	02/02/2015	142
ANSYS	02/02/2015	141
PCB Design and Fabrication Process	21/07/2014	30
DIGITAL MARKETING	11/11/2014	63

Web Technologies	04/08/2014	243
Machine learning	09/08/2014	122
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
Mtech	Computer Science and Engineering	8
BTech	Civil Engineering	152
BTech	Electrical & Electronics Engineering	138
BTech	Mechanical Engineering	135
BTech	Electronics & Communication Engineering	126
BTech	Computer Science and Engineering	318
BTech	Information Technology	42
Mtech	Structural Engineering	5
Mtech	Advanced Manufacturing Systems	12
Mtech	Thermal Engineering	14
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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
<p>Teaching - learning system needs continuous refinement. To facilitate this process of continuous refinement, Malla Reddy Engineering College has a well defined and formal feedback system implemented at different levels. 1) Board of studies: The department receives feedback from various stakeholders including industry experts, employers and alumni which involves teachers and peer academicians from other institutions. Through Board of Studies (BoS) meetings, Department meetings and parents meetings, they give their suggestions and feedback regarding curriculum design and development, pedagogy and question paper setting, which are taken for review and further implementation. Their inputs are considered for redefining the PEOs and PSOs. The feedback from stakeholders and the gaps in the attainment are used for further modifications / revisions in the curriculum and syllabi. 2) Course Feedback: The feedback from students regarding the quality of teaching is collected twice in each semester (mid semester and end semester), through an in-house online portal.</p>

Feedback is obtained from the students on syllabus coverage, content delivery, assessment and evaluation. The collected feedbacks were analyzed and action will be taken for the betterment of the students in all departments. 3) 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 process and course correct to achieve targets. 4) Alumni Feedback: The focus of Alumni feedback is 360 degrees evaluation on Academics, curriculum, events, etc. The feedback is collected online through Mailers, Social media, via forms, and during their visit to MREC for events. 5) Parent's feedback: For the overall improvement of the character of a student, the institution shall take feedbacks from parents/guardians. These shall be gathered during Parent Teacher meetings and stakeholder meetings. Parent Teacher meeting shall be convened once in a semester at the Department level to gather feedback from stakeholders on various aspects of the programme. These collected feedbacks shall be consolidated and discussed in Department level committee meetings and to decide the necessary actions needed at the Department level. The consolidated reports shall be presented at institution level committee meetings. The feedback shall be used to scrutinize and refine the policies, so that the institution moves forward to its vision.

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	Nill	180
BTech	Electrical and Electronics Engineering	120	Nill	119
BTech	Mechanical Engineering	240	Nill	236
BTech	Electronics and Communication Engineering	180	Nill	180
BTech	Computer Science Engineering	240	Nill	240
MBA	Masters of Business Administration	120	Nill	100
Mtech	Structural Engineering	18	Nill	17
Mtech	Electrical Power Systems	24	Nill	18
Mtech	Transportation Engineering	24	Nill	23
Mtech	Machine	24	Nill	17

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
2014	3562	1023	269	20	15

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
304	304	93	85	85	27772

[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)

There are Mentors, who are the in-charge of sections and there are Mentors, who are in charge of student clubs. Every section has a Mentor, who is in charge of the students of that Class. The Mentors are provided access to the profile of the students and also to their contact details. Well-trained teachers who know the background of the students are made responsible. Generally, the Mentors provide encouragement, motivation and counseling support, where the student requires additional help which is beyond the abilities of the Mentor, she/ he guides the students to the right direction. Mentors help greatly in identifying diversity in terms of learning challenges as well. They provide first hand support to the students with difficulties and gives relevant inputs to subject teachers to help the subject teachers be more effective in handling these students. The Class Mentor's contact details are shared with the parents/ guardians. Similarly, the Mentor has the contact details of the parents/ guardian. The Mentors are also provide additional support in terms of providing career guidance, when students graduate and seek higher studies, almost always the students approach the Mentors for providing them with references. Many Mentors are also encourage the students to collaborate with them in projects or in academic writing, especially when students share their academic interests. This, although less common, greatly helps the students in giving them an edge over their competitors elsewhere. Such Mentors are also guide these students during their projects and internships. This is of immense benefit to the students involved. Mentors, who are in-charge of student clubs generally work with students, who share common curricular or extracurricular activities based on their interests. Such Mentors are usually experts in a field and are passionate about the domains of their clubs. Their passion being contagious, students who are part of such clubs greatly thrive and excel in those domains. All the Mentors have direct access to the Head of Institution. Mentors are authorized to report any challenge immediately and seek resources required. Mentors are also maintains record about the students progression. The Mentorship program at College is, where many teacher-student bonds effectively for a lifetime get developed. These mentors play the role of a caring adult and offer themselves as role models. Especially in the context of students, who came from broken or conflicted families, the significance of the role played by the teachers, going way beyond, what is their routine job as teachers, cannot be overstated.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4585	304	15.08

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
175	175	Nil	175	20

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	Dr. M. Kameshwara Rao	Professor	Received best paper award
2014	Dr. Md. Masthan	Professor	Venus international Foundation (Outstanding Researcher)
2014	Dr. U Ravi Babu	Professor	Venus international Foundation (Outstanding Researcher)
2015	Dr. Kesavan Gopal	Professor	Teacher's excellence Award
2014	A.J Praveen Kumar	Assistant Professor	Young Academician 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	04	I/II	17/07/2015	20/07/2015
BTech	03	I/II	17/07/2015	20/07/2015
BTech	02	I/II	17/07/2015	20/07/2015
BTech	01	I/II	10/02/2015	13/02/2015
BTech	25	I/I	10/02/2015	13/02/2015
BTech	05	I/I	10/02/2015	13/02/2015
BTech	04	I/I	10/02/2015	13/02/2015
BTech	03	I/I	10/02/2015	13/02/2015
BTech	02	I/I	10/02/2015	13/02/2015
BTech	01	I/I	10/02/2015	13/02/2015
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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
124	4585	2.7

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%202014-15.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	140	132	94.28
02	BTech	Electrical and Electronics Engineering	137	134	97.81
03	BTech	Mechanical Engineering	141	129	91.49
04	BTech	Electronics and Communication Engineering	136	132	97.06
05	BTech	Computer Science Engineering	119	115	96.64
12	BTech	Information Technology	51	49	96.08
1E	MBA	Master of Business Administration	54	52	96.29
20	Mtech	Structural Engineering	18	15	83.33
07	Mtech	Electrical Power Systems	12	10	83.33
21	Mtech	Thermal Engineering	8	6	75.0

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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://mrec.ac.in/SSS/SSS%20AY%202014-15.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

Yes
Name of the teacher getting seed money
Dr. P. Raj Shekar
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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
No Data Entered/Not Applicable !!!				
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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
Minor Projects	1095	UGC	2.59	1.84
Minor Projects	1095	UGC	2.6	2.5
Minor Projects	1095	UGC	1.5	1.02
Minor Projects	1095	UGC	2.5	2.1
Minor Projects	1095	UGC	2.4	1.3
Minor Projects	1095	UGC	3.1	2.35
Minor Projects	1095	UGC	0.97	0.92
Minor Projects	1095	UGC	1.8	1.66
Minor Projects	1095	UGC	2.6	2.52
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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

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
A Two-Day Workshop on MATLAB Applications on Control Systems Power Electronics	Electrical and Electronics Engineering	26/09/2014
FDP on Design of earthquake Resistant Structures NDT Testing on Building	Civil Engineering	15/09/2014
Advances in Nanotechnology (Workshop)	Mechanical Engineering	05/02/2015
Two Day Workshop on "Basics of MATLAB"	Electronics and Communication Engineering	11/08/2014
Python Programming	Computer Science Engineering	08/12/2014
Mine Planning and Design - FDP	Mining Engineering	15/11/2014

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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
Young Scientist Award For Research Work	Mr.A.Raju	BRCORP-NEPAL	29/09/2014	Teacher

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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 !!!					

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
CIVIL ENGINEERING	1

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	14	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	2
Electrical and Electronics Engineering	5
Mechanical Engineering	11
Computer Science and Engineering	1
MBA	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
No Data Entered/Not Applicable !!!			
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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
Ceraplast And Ceraproof Admixtures Behaviour On High Strength Concrete Vol-2 Issue 5 Pg:No: 15-19 May-2014And Ceraproof Admixtures Behaviour On High Strength Concrete Vol-2 Issue 5 Pg:No: 15-19 May-2014	B. Vamsi Krishna	IJSER	2014	0	Malla Reddy Engineering College	Nil
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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 excluding self citation	Institutional affiliation as mentioned in the publication
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Text Clustering Using Reference Centered Similarity Measure	Narayana C.S.	Advances in Intelligent Systems and Computing	2014	Nil	Nil	Malla Reddy Engineering College
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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	Nil	6	12	28
Presented papers	Nil	2	4	14
Resource persons	Nil	Nil	1	2

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Total Station	Amrutha Projects Pvt Ltd	108000

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Civil Engineering, MREC	Total Station	PRK Solutions	50000	10
Dr. R. S. Reddy, ME, MREC	Vibration Analysis of Mechanical Components	Datta Sai Engineers	54000	8
Mr. V. Narsimha Reddy, ME, MREC	Diagnosis of Mould Defects	Sri Vasavi Foundries and Engineers	50000	7
Dr. A. Jayanna, EEE, MREC	Raspberry pi training	Pantech Solutions, Hyderabad	10000	4

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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	Number of students participated in such
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		activities	activities
Independence Day Tree Plantation	NSS (MRECA)	5	120
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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
Community Service	Recognition	Gramapanchayat Bahadurpally	50
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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
Voters Awareness Program	NSS CELL JNTUH	National voters day	3	80
Swachh Bharat Mission	Secunderabad Cantonment Board	Swachh Contonment	1	35
Haritha Haram	NSS	Independence Day Tree Plantation	5	120
Rural Health Program	NSS	Medical Camp	12	230
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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	Mr. A. Raveendra	JNTUH Hyderabad	60
Research	Mr. V. Narsimha Reddy	JNTUH Hyderabad	60
Research	Mrs.M.Laskhmiswar upa	JNTUH Hyderabad	60
Research	Mr.P.Ashokbabu	JNTUH Hyderabad	60
Research	Mr.S.Zaheer Hussain	JNTUH Hyderabad	60
Research	Mr.T.Ramaswamy	JNTUH Hyderabad	60
Research	Mr.T.Kiran	VIT Vellore	60
Research	Mr.A.Raju	NIT Suratkal	60
View File			

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	Design and manufacturing of rolling stock wheel for indian railways	Venkatramana Industries, B-1/1, Jubilee Colony Rd, Kukatpally Industrial Estate, Balanagar, Hyderabad, Telangana 500037	20/05/2014	05/06/2014	10
View File					

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
Robospecies Technologies Pvt.Ltd.	01/02/2015	Workshop	200
View File			

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
140.2	138.32

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar Halls	Existing
Campus Area	Existing

Laboratories	Existing
Video Centre	Existing
Class rooms	Existing
View File	

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	37800	8563000	9000	2116945	46800	10679945
Reference Books	1828	692563	800	107882	2628	800445
e-Books	971	Nill	4173	176896	5144	176896
Journals	431	935280	130	5293636	561	6228916
e-Journals	2500	625384	11154	204471	13654	829855
Digital Database	1	62000	3	33012	4	95012
CD & Video	7600	34500	15251	15500	22851	50000
Others(s pecify)	1	62500	2	11500	3	74000
View File						

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
Dr. R. S. Reddy	Wear Behaviour Monitoring	LMS of MREC	14/08/2014
Dr. K. L. Narayanmurthy	Applications of FEM in Heat Transfer	LMS of MREC	05/10/2014
Dr. B. L. Jaiswal	Design of Bearings for Cyclic Loads and Speeds	LMS of MREC	18/11/2014
Mr. A. Raveendra	Special Casting Processes	LMS of MREC	13/02/2015
Dr G .Charles Babu	System Models	LMS of MREC	10/04/2015

Mr. Hima Kiran	Arrays and Types of Arrays	LMS of MREC	05/11/2014
Ms. Kavitha Reddy	Principles of deadlock	LMS of MREC	16/10/2014
Mr. Ramana Murthy	Single linked list and double linked list	LMS of MREC	10/07/2014
Mr. Swami Das	Data Link Layer	LMS of MREC	15/07/2014
Mr. Ajay Kumar	Stack and Queue Operation	LMS of MREC	23/02/2015
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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	750	13	13	13	5	10	8	60	0
Added	81	2	2	2	1	0	0	0	0
Total	831	15	15	15	6	10	8	60	0

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

60 MBPS/ GBPS

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
Inflibnets N-LIST (e-Journals e-Books)	www.nlist.inflibnet.ac.in
DELNET	http://164.100.247.26
DELNET E-Journal (Management)	http://164.100.247.25/basisbwdocs/manag.html
DELNET E-Journal (Computer Science)	http://164.100.247.25/basisbwdocs/computerscience.html
DELNET E-Journal (Education)	http://164.100.247.25/basisbwdocs/education_journal.htm
IEEE -ASPP Package(e-journals)	https://ieeexplore.ieee.org/

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

2235000

2228380

1522200

1512800

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 shall take charge of all construction activities, whether adding buildings or restoring existing ones, through a permanent manager. The buildings are periodically managed for renovation and repair. The houses, corridors and other areas are constantly kept by the Housekeeping team clean and orderly. In order to ensure their usability, the washing rooms are routinely operated by a team. The departments run by their heads maintain laboratory equipment under their operating conditions. The HODs will budget for repairs and maintenance for the academic year before the beginning of the academic year in all the laboratories in question. They specify the agencies which would perform maintenance work and prepare the equipment before the start of each six-month cycle. The institution consists of an IT-cell led by a senior faculty member to supervise purchase, maintenance, repair and replacement of equipment such as servers, portable computers, projectors and others around the institution in the field of information technology. The Institute pays for the management and use of campus resources for budgetary purposes under the various headings. Enough maintenance and repair funds have been allocated to the Institute Development Committee. These funds are used in the form of the observation of various control committees such as the Purchasing Committee, the Sports Committee, the Library Committee, the Labor Care Committee, the Colleges Students Input Committee and so forth. To maintain and upkeep the infrastructure Institute facilities and equipments, following activities are undertaken by college:-

- In every department there is a Stock Maintenance Committee which maintains the inventory by physically checking products all year round.
- The responsible Department Manager of the Department shall perform a wise annual stock checking.
- A Laboratory Assistant, together with a Laboratory Assistant and headed by Lab Maintenance Committee Convenor, shall conduct the routine maintenance of equipment for computer laboratories.
- Campus Discipline and the Cleanliness Committee of the college are responsible for the overall creation of the campus.
- Institute fourth-class employees perform routine water tank cleaning, proper waste management, pesticide control, landscape and lawn maintenance.
- Routine inspection of the college campus is tracked.
- The Hostel Monitoring Committee ensures all equipment and the clean atmosphere in the hostels for men and women.
- 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/Infrastructure/InfrastructureOverview>

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	50	175000
Financial Support from Other Sources			

a) National	Telangana State E-Pass	3910	100814710
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 implementation	Number of students enrolled	Agencies involved
Soft Skill Development	16/06/2014	1245	Focus Academy
Remedial Classes	11/08/2014	2727	Internal Faculty (MREC)
Language Lab	14/07/2014	1127	Internal Faculty (MREC)
Bridge Courses	02/08/2014	1151	Internal Faculty (MREC)
Yoga Meditation	25/09/2014	1519	Internal Faculty (MREC)
Personal Counseling and Mentoring	11/08/2014	8826	Internal Faculty (MREC)
View File			

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 TRAINING	Nil	Nil	Nil	535
2014	GUIDANCE & COUNSELLING	Nil	486	Nil	Nil
2015	GATE/ GRE/ TOEFL	Nil	Nil	103	Nil
View File					

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	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of	Number of	Number of	Name of	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
20	1020	400	22	1020	135
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2015	2	B.Tech	Mechanical Engineering	Algonquin College	MS
2015	2	B.Tech	EEE, CE	BHARATH INSTITUTE OF ENGINEERING AND TECHNOLOGY	M.Tech
View File					

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	27
GRE	70
CAT	4
Any Other	2
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cultural Activities	Institutional Level	116
Sports	Institutional Level	52
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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
2015	SECOND	National	1	Nil	11J41A0240	GADAE SUNNY
View File						

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

The institution strongly considers that the development of the institute is on the contribution of all its stakeholders such as students, the staff, the faculty and the management. For that, the institute has established various student member councils. The student representatives are selected from each

class and nominated them to various student council committees. These committees consist of students and faculty members in various academic and administration bodies such as technical, cultural, social, Sports, NSS and other committees based on the students' interest. Each committee has its own executive body with the faculty and student representatives, so that they work under the leadership of the faculty members. The students disseminate the information from college administration and other committees to all the students. The members from these student councils are assigned different positions in academic and administrative bodies for the smooth conduct of all the events or activities in the campus. The main objective of these committees is to ensure the continuous and smooth conduct of various activities in the campus every year. The council is responsible for conducting numerous events and activities throughout the year in the campus such as curricular, co-curricular and extracurricular activities where the students assist the teachers in arranging, organizing and executing different activities based on their interest. However, the student representatives act as facilitators between students and faculty for the exchange of their views and opinions. These committees ensure that the utmost active participation and engagement of the students and faculty members in various events and activities conducted by the institution. The activities of the student council are conducted by the active participation of all the faculty members. The student councils conduct numerous activities and events in the college premise such as technical, non-technical fests, workshops, conferences, guest lectures, celebrating special days and conducting various competitions for the students by the students. The student council representatives actively participate in diverse extension activities such as Swachh Bharat Abhiyan, Tree plantation, Yoga Day in June, Blood Donation Camp, celebrating Engineers' Day in September, Mehendi and Rangoli Competitions in January and so on so forth. The student representatives in different committees perform various functions such as organizing sports day and cultural events. The institute provides students an opportunity to interact with the industry experts and learn the most recent developments in the research and in their specializations. It tackles the problems of students in the campus, and the same can be communicated to the principal. Other responsibilities of the student councils include the maintenance of discipline in the campus and keeping the institute clean and green. Effectively working in student councils, the students get a chance to communicate with the faculty members, the staff, the principal and the management. Accordingly, this information aid students to develop leadership skills and management skills through active contribution.

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 started its alumni association with few members. It comprises of governing body with President, Vice-president, Secretary, Treasurer and General Secretary and Executive body and they extend their continuous rapport with the institution. New body is elected once in every two years. The alumni association is very active in promoting interactions and camaraderie among the alumni, staff and the management. Besides helping the alumni in all possible ways, it also lends its support to the college to achieve its cherished goals, its vision and mission. The management actively takes part in all the activities conducted by the alumni association. Our top alumnus are placed in many prestigious organizations, most of them are discharging their responsibilities in different positions like Software Engineers, R D Engineers, NDT Engineers, System Engineers, Tech Support Engineers, Software Testers and

other government organizations. The alumni association outlines the moral, intellectual and psychological perceptions of the students as they get a number of opportunities for taking part in processes of learning, discussing and researching about the practical knowledge. Alumni meetings are conducted every year to assist the present students for creating awareness about various employment opportunities that are accessible in this cut throat competitive world and the strategic methods to meet the necessities of competitive examinations like GRE, TOFEL and other job oriented exams in public sector. The association organizes guest lecturers, internship programs, workshops and seminars on various skills to enhance students' knowledge in technical and non-technical areas. It motivates students to opt higher education in Indian and abroad. The alumni day is conducted every year in the month of July. Students who have completed their B.Tech/M.Tech/MBA course can register 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:

866

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

59000

5.4.4 – Meetings/activities organized by Alumni Association :

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)

i. Various committees have been formed at Institution and department level to take care of planning and executing many operational procedures in the Institute. ii. The Institute believes that the development of the Institute and achievement of quality depend on contribution of the employees of the Institute. In order to smooth conduct of various activities of administration and academics decentralization is being followed: The college promotes participatory management at various levels through administering academic and administrative activities in uniform way as far as possible. It adopts decentralization policy to effectively administering its functioning through various statutory and non statutory committees. This helps in smooth conduct of academic, financial and administrative activities of the college. The statutory committees are Governing Body, Academic Council, Board of Studies and Finance Committee constituting with the members from Management, Principal, Faculty, University Nominees, Industry Members and academicians from various reputed Institutions. The Governing Body delegates all the academic and operational decisions based on policy to the various monitoring committees headed by the Principal in order to fulfill the Vision and Mission of the Institute. The Non Statutory committees are constituted with the members from Principal, Deans, HODs, Faculty and Staff.. The committee meets once or Twice in a Year.

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	UG Students are admitted on the basis of merit through state wide entrance examination EAMCET conducted by State Government. PG Students admitted through PGCET and GATE, MBA Students admitted by ICET.
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 Payroll is as per norms Time and Attendance are monitored on daily basis, Performance record is maintained, Performance appraisal is conducted, Faculty and Staff recruitment are always based on merit., Seminar / training are conducted to train the newly recruited faculty. Micro - teaching is done for the new comers, Several in - house workshops are held to train the faculty and staff to enable them to update their knowledge. Grievance cell is present to address several issues that faculty, staff or students may face.
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 license is continued by renewing the license annually. All laboratories have been renovated and refurbished. 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. The Institute encourages the faculty members to publish research 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.
- 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 Bee's 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.
- 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 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. Active Learning methods are implemented to bring innovation within classrooms. Continuous seminars/ lectures / workshops are arranged for the faculty to enable them to create a learner centric environment

Curriculum Development

Every Department has BOS that suggests changes for improvement and up gradation of the curriculum after discussions. The suggestions are implemented after it is ratified by the Academic Council. After the Autonomy status of the institute, The syllabi were revised with the objective of - 1. Making the curricula at par with the industry requirement 2. Making it sustainable in the international scenario. It is mandatory to map every

course objective with the course outcome. A course end survey is performed at the end of every course and necessary measures are taken. The results of mid exams are mapped with Course Outcomes and the achievement levels are indexed.

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, 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>
<p>Finance and Accounts</p>	<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>
<p>Student Admission and Support</p>	<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</p>

and seats are allotted in the order of merit. Roll lists are also generated along with student profile creation

Examination

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.

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 support provided	Name of the professional body for which membership fee is provided	Amount of support
2014	Mr.B.Vamsi Krishna	International Conference on "Advances in Engineering Technology"	MREC	3000

[View File](#)

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)
2014	Emerging Trends in Science Technology and Management - NCETSTM-2K14	-	08/08/2014	09/08/2014	200	Nil

[View File](#)

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
Advanced Techniques in Disaster Management and Mitigation	15	12/12/2014	13/12/2014	2
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
175	175	16	16

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medical Insurance, Provident Fund	Medical Insurance, Provident Fund, Free Transportation	Health Centre, 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 IQAC. 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 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	50000	Research
View File		

6.4.3 – Total corpus fund generated

0

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	Yes	Internal

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

(1) During orientation and Parents are regularly invited to Parent Teacher meetings to discuss the need /problem / progress of their wards (2) Supporting the institutional ethos and values (3) Student mentor details are provided to the parents to pursue their ward's performance

6.5.3 – Development programmes for support staff (at least three)

(1) Seminar on testing of ductile materials (2) Maintenance of electrical equipment. (3) Fluid Mechanics, Strength of Materials and Heat Transfer (4) One day training on CADENCE tool (5) One Day Workshop on "Collaborative Computing, Networking and Applications" (6) Effective Communication A Practical Approach

6.5.4 – Post Accreditation initiative(s) (mention at least three)

(1) RD activities have been improved (2) 5- UG programs accredited by NBA (3) Industry involvement in curriculum design and content delivery

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
2014	National Conference on "Emerging Trends in Science Technology and Management" "NCETSTM-2K14"	08/08/2014	08/08/2014	09/08/2014	200
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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	27/09/2014	27/09/2014	180	Nil
Karthika Vana	01/12/2014	01/12/2014	75	175

bhojanaalu				
Sankranthi samburalu - Local harvest festival	10/01/2015	10/01/2015	100	450
International Women's day	07/03/2015	07/03/2015	300	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
<p>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/m³. 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.</p>

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	4

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	12/01/2015	1	National Youth Day	The students were motivated by collecting the teachings	200

						of Swamy Vivekananda	
2015	Nill	1	19/01/2015	1	Blood donation camp	NSS organized Blood donation camp	180
2015	1	Nill	25/01/2015	1	National Voters day	Participants were educated about the importance of Vote	200
2015	Nill	1	22/02/2015	7	Special camp	NSS unit conducted various social service activities in the Maisammaguda and Dhaulapally villages	40
2014	Nill	1	22/07/2014	3	Medical Camp	People in the neighbourhood of Gundlapochampally village were given awareness about the importance of cleanliness. Basic health parameters were checked.	35
2014	1	Nill	05/09/2014	1	Teachers day	The inspiring anecdotes from the life of Sarvepalli Radhakrishnan were shared with the	50

						participa nts	
2014	Nil	1	06/09/2014	1	Mega blood donation camp	Blood donation camp was conducted by the NSS unit.	450
2014	Nil	1	23/09/2014	1	Environment fest and NSS day at JNTUH	Students were appraised about the importance of service to the community	5
2014	Nil	1	22/10/2014	1	Blood donation camp	NSS organized Blood donation camp.	225
2014	Nil	1	14/11/2014	1	Swacch cantonment	Swacch bharath conducted in the Cantonment area	25

[View File](#)

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Human Values and Professional Ethics - for students	30/06/2014	Subject called Human Values and Professional Ethics is introduced with the subject code 40B04. This subject covers elaborately the following topics - Human values, Self management, Engineering Ethics, Value education and Stress management

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Anti - ragging awareness	01/08/2014	01/08/2014	755
Hudhud Relief Fund	20/10/2014	20/10/2014	15
World Consumer Rights Day at Ravindra Bharati,	17/03/2015	17/03/2015	10

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

- 1) Green audit 2) Rain water harvesting 3) Litter free campus 4) Plastic free campus 5) Waste management

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Mentoring Objective Mentoring of students thus, is an essential features to render equitable service to all our students having varied background. Student mentoring has the following objectives: 1. To Enhance Teacher , student contact hours 2. To Enhance students academic performance and attendance 3. To minimise student drop-out rates 4. To identify and understand the status of slow learners and encourage advanced learners. 5. To render equitable service to students. The importance of integrating the system for enhancing student's performance is a common resolution adopted by a meeting of the teaching faculty. Context Our college has taken the initiative of implementing the mentoring of students. They are divided into groups of 20 each. Each group is assigned a teacher-mentor who would perform mentoring duties. A mentoring format with guidelines is prepared by our college to ensure uniformity. 1. Mentors maintain and update the mentoring format which contains space for entering particulars and performance of students (class, tests, monthly attendance records etc.) 2. After collecting all necessary information, mentors are expected to offer guidance and counselling, as and when required. 3. If a student is identified as having weakness in particular subject ,it is the duty of the mentor to appraise the concerned subject teacher. The Practice Mentoring relationships are embedded in the educational process in higher education. In addition, these teaching experiences provide student-teachers opportunities to learn Instructional and class Management strategies. • In our college we establish a better and effective student-teacher relationship and guide the students in academic matters. • All teachers work as mentors to the students allotted to them. Students will have to go and meet their mentor at least once in a month for guidance. The students must feel free to confide in their mentors, their academic problems. • The students will have to meet the mentors when they are called for. • The students should take the prior permission of the mentor before they absent themselves from classes. They have to submit a leave note for the absence for a period /day/days to the mentor. The coordination of shortage of attendance will be recommended on the basis of leave records and recommendations of mentor. • The mentor will note the performance of the students in tests and examinations and also the behaviour of their wards. Constraints: With the introduction of continuous assessment under the semester system,time factor could be a constraint for mentors. Evidence of Success Though the system has implemented in our college in the last few years, significant improvement in the teacher-student relationship can be seen. • The system has been useful in identifying slow learners and advanced learners. Based on the requirement deduced through a careful examination of each mentors report , the college has organised several remedial classes in the identified topics/subjects for slow learners. Problems Encountered and Resources required: • The Remedial classes have been institutionalized after the implementation of the mentoring system. Need-Based remedial classes have proved to be beneficial to the students in particular and the entire college in general. The institutional practice of mentoring system has considerably enhanced the campus environment 2. Best Student Award Objective In academics, it's customary in our society to recognize the highest achievers. Students can be recognized for a number of accomplishments, including improved academic standing, a demonstration of their love of learning, or because they have shown exemplary

attitude and behavior. Academic awards were created in that spirit, with the hope they would create meaningful moments of recognition that will inspire others and reinforce the behavior that led to the reward. The academic arena offers many opportunities for rewarding students for their efforts, achievements, and contributions to the school and the community. Context The criterion for the award is based on the performance of student in midterm and end semester examinations, both in theory and laboratory as well. Based on the evaluation provided by the Head of the Department, the best student is selected and awarded. Practice • The cumulative performance of individual student is evaluated by the concerned Head of the Department and a merit list is prepared. The top 3 students will be intimated personally and invited to the college annual day to receive the honour. • The top 3 students in the list are awarded Gold, Silver and Bronze medals respectively in the presence of huge gathering on the occasion of the college annual day - Resonanz... • The topper who receives the Gold medal is treated as the Best Student. Evidence of success It will be a proud moment for the student to receive Gold medal in the presence of his parents and in the presence of his faculty, his classmates and friends. Therefore it is observed that many a times the students who stand toppers in their earlier years of study continue to be in the list in the subsequent years as well. At the same time this practice motivated the other students as well to perform well and hence new students are found in the list if not regularly at least occasionally. Problems Encountered and Resources required: The whole evaluation should be done meticulously to avoid any kind of discrepancies. Any minute discrepancy can un motivate the morale of the students. Therefore foolproof data should be collected from the examination branch and the same should be scrupulously evaluated and the best student should be identified.

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%202014%20-%2015.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

Malla Reddy Engineering College (Autonomous) was established in the year 2002 with the approval of AICTE and affiliation to the then Jawaharlal Nehru Technological University, (JNTU), Andhra Pradesh with four branches of Engineering - EEE, ME, ECE and Biotechnology and a total intake of 240. The institute was established by the founder chairman Mr. Ch. Malla Reddy with the aim of providing quality engineering education to the deserved students and to groom them into world class engineers. In the mission to accomplish this task the institute has taken care of the following important things: Faculty members are the backbone of any institution in general and an institute of higher learning in particular. The institute strongly believed in the quality of the faculty members in providing quality education to the students. The job aspirants who pursued their education in the premier institutions like IITs and NITs were always given top priority in the faculty recruitment process. The then Union minister Kapil Sibbal recommended PG as the eligibility for teaching UG students in an engineering college and permitted a period of about 3 years for implementation. The institute was one among the very few in the state which implemented this policy well ahead of the deadline. The legendary personalities always inspire many people. With a firm belief in this thought the institute arranged memorial lectures on the names of the world famous scientists and engineers. When the institute was in its baby steps, the tradition of arranging Faradays memorial lecture was set in the institute on every September 22 to commemorate the birth anniversary of Michael Faraday. Distinguished Professors like Prof D C Reddy, Prof. Alladi from Osmania University were few of the

eminent speakers who graced the institution on such occasions. When the institute was very young, the need for organizing student level techno cultural fest was strongly felt and that's how the institutes techno cultural fest Akshara came into existence. The intention of organizing such events was to bring out the latent techno cultural talent among the students. This programme conducted from March 13 - 14, 2015 attracted many engineering students from various colleges in and around the city. The event called Ms. Akshara and Mr. Akshara is the highlight of all the events. Conferences help the faculty members to update their knowledge and build up their professional relationships as well. Also the faculty members get a chance to interact with the experts in the field. The institute conducted National Conference on Emerging Trends in Science Technology Engineering and Management (NCETSTEM2k14) from Aug 8 - 9, 2014. Participants from different parts of the country participated enthusiastically in the two day conference. Physical education was another thrust area since the inception of the institute. During the days when the institute was too young to be known to the outside world, the sports contingent was sent to the national level sports meet conducted at places like BITS Pilani etc. This gesture of the institute still continues its impact and the saga of

Provide the weblink of the institution

<http://www.mrec.ac.in/NAAC/Criterion7/ID%20AY%202014-15.pdf>

8.Future Plans of Actions for Next Academic Year

i. To implement Choice Based Credit System (C.B.C.S.): The conventional system of curriculum design has limited provision for elective subjects. The student can select a subject as elective from the list of electives offered by the parent department alone. But in the case of Choice Based Credit System (C.B.C.S.) there is a wide scope of selecting the subjects. The other benefits C.B.C.S. include: 1. Selection of interdisciplinary courses Students can select interdisciplinary courses offered even by departments such as English, Mathematics, Physics and Chemistry for the third year and fourth year engineering students. This was not the case in the conventional system. 2. Registering courses to suit one's pace Students have the freedom of registering for the total number of subjects as per his or her pace of study. Every semester students are required to register for a few prescribed number of credits. C.B.C.S. gives the option of registering slightly more or lesser number of credits than the credits allocated for that semester. A bright student can register for additional credits while an average student can register for lesser number of credits. On the whole both the kinds of students should register and obtain the sum total of the credits prescribed for each semester to get the degree awarded. Besides, C.B.C.S. gives scope to introduce Mandatory Courses and Audit Courses. As the institute got autonomy from the University Grants Commission (UGC) in the year 2014 - 15 for a period of Six years, the freedom given under C.B.C.S. can be effectively utilised in curriculum design. Hence, we plan to implement C.B.C.S. for the students admitted from the year 2015 - 16 onwards. ii To submit the compliance report for the extension of N.B.A. accreditation: The UG branches of engineering - Civil Engineering, Electrical and Electronics Engineering, Mechanical Engineering, Electronics and Communication Engineering and Computer Science Engineering got accredited by the N.B.A. in this year 2014 - 15 with 2 years validity i.e., till 2015 - 16. Therefore, a compliance report should be prepared in the prescribed format and submitted by the end of the academic year 2015 - 16 so as to claim extension of the N.B.A. accreditation for the academic year 2016 - 17. iii To achieve N.B.A. accreditation for the eligible PG programmes: M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) will be eligible to apply for N.B.A. accreditation in the year 2016 - 17. Therefore, necessary efforts need to be put during the academic year 2015 - 16 to achieve N.B.A. accreditation for these two programmes.

