Yearly Status Report - 2017-2018

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(H), Gundlapochampally Village, Medchal Mandal, Medchal-Malkajgiri District,**
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://mrec.ac.in/AQAR/AQAR%202016-17.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**
2	**A**	**3.20**	**2015**	**25-Jun-2015**	**24-Jun-2020**

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
Pradan Mantri Gramin Digital Saksharata Abhiyaan (PMGDISHA) Programme	22-Jun-2018 2	36
IBM Blue Mix FDP Program By Mr. Thanuj Kumar G Y	19-Feb-2018 4	34
Infosys HR Manager Interaction with Students	19-Feb-2018 1	268
Phase-1 Pre Certification Workshop on IUCEE International Engineering Educator's Certification Program	03-Feb-2018 4	68
Cisco and Salesforce Certificate Presentation Ceremony	02-Feb-2018 1	98
Texas A&M University Higher studies Awareness Programme	25-Jan-2018 1	238
International Conference on Transformation in Engineering Education	06-Jan-2018 3	689
4-Day Training Programme on Salesforce Essentials for Business Specialist	27-Dec-2017 4	46
Visit of Prof William Oakes from Purdue University, USA to MREC(A)	06-Dec-2017 1	89
Key note Lecture on Technical Paper Writing Techniques	25-Nov-2017 1	156
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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	Autonomous	UGC	2014 2190	0
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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	[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) Arranging Campus Recruitment Training (CRT) classes. 2)Career guidance and placement cell strengthened 3) Academic feedback collection, analysis and counseling 4) skill development training programmes for the students 5) sensitizing students to environmental issues

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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
Skill development training to the students	**MoUs are made with the industry giants so as to train the students on emerging technologies like LabVIEW, HP DevOps, Amazon Web Services, CCNA, etc., and the students are trained.**
Submission of Compliance report for the extension of NBA accreditation for M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering)	**Compliance report for the extension of NBA accreditation for the year 2018 – 19 is submitted in the prescribed format and manner.**
JNTUH affiliation for the academic year 201819	**Documents necessary for the affiliation are submitted to the affiliating University, Jawaharlal Nehru Technological University, Hyderabad (JNTUH) and got the Affiliation orders.**
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date

Board of Governance	18-Nov-2017

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**07-Feb-2018**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2018**
Date of Submission	**27-Feb-2018**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**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. Students Association Council(SAC) aims at providing information about the extracurricular and co curricular activities of students. 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 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	30/06/2017
BTech	02	Electrical and Electronics Engineering	23/06/2017
BTech	03	Mechanical Engineering	21/06/2017
BTech	04	Electronics and Communication Engineering	28/06/2017
BTech	05	Computer Science and Engineering	24/06/2017
BTech	12	Information Technology	24/06/2017
BTech	25	Mining	29/06/2017

MBA	1E	Master of Business Administration	06/05/2017
Mtech	07	Electrical Power Systems	23/06/2017
Mtech	20	Structural Engineering	30/06/2017
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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	Nill	Nill	Engineering Mathematics -- 70B01	30/06/2017
BTech	Nill	Nill	Computer Programming -- 70501	30/06/2017
BTech	Nill	Nill	Basic Electrical and Electronics Engineering -- 70201	30/06/2017
BTech	Nill	Nill	Computer Programming Lab -- 70502	30/06/2017
BTech	Nill	Nill	Engineering Workshop -- 70303	30/06/2017
BTech	Nill	Nill	English -- 70H01	30/06/2017
BTech	Nill	Nill	Computational Mathematics -- 70B02	30/06/2017
BTech	Nill	Nill	Physics of Materials -- 70B09	30/06/2017
BTech	Nill	Nill	Engineering Graphics -- 70301	30/06/2017
BTech	Nill	Nill	Engineering Mechanics -- 70302	30/06/2017
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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

BTech	Mining Engineering	29/06/2017
BTech	Information Technology	24/06/2017
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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
BTech	Civil Engineering	30/06/2017
BTech	Electrical & Electronics Engineering	23/06/2017
BTech	Mechanical Engineering	19/06/2017
BTech	Electronics & Communication Engineering	28/06/2017
BTech	Computer Science and Engineering	24/06/2017
BTech	Information Technology	24/06/2017
BTech	Mining Engineering	29/06/2017
Mtech	Structural Engineering	30/06/2017
Mtech	Electrical Power Systems	23/06/2017
Mtech	Machine Design	19/06/2017
Mtech	Thermal Engineering	19/06/2017
Mtech	Computer Science and Engineering	24/06/2017
MBA	Management of Business Administration	06/05/2017

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
CCNA Module-I Module-II	01/10/2017	72
REDHAT	10/02/2018	37
Machine Learning	08/08/2017	239
APP MANIA – Mobile Application Development	10/09/2017	239
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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
BTech	Civil Engineering	572
BTech	Electrical & Electronics Engineering	94
BTech	Mechanical Engineering	654
BTech	Electronics &	139

	Communication Engineering	
BTech	Computer Science and Engineering	489
BTech	Mining Engineering	49
MBA	Management of Business Administration	100
Mtech	Structural Engineering	4
Mtech	Electrical Power Systems	8

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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

The purpose of this Policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the Institute's curriculum for use in program evaluation, accreditation and other academic quality assurance processes and activities. The scope of this Policy covers all the programs run by Malla Reddy Engineering College. Specifically, this Policy provides a framework for: 1. Monitoring and improving the quality of students' learning experiences through the timely collection, analysis and reporting of student feedback concerning teaching, learning and assessment. 2. Providing students and stakeholders with the opportunity to actively participate in the continual improvement of programs. 3. Recognizing, documenting, supporting and extending good practices for effective implementations of curriculum. 4. Ensuring the provision of information to students and stakeholders regarding the consideration of feedback collected over time, including actions taken to address concerns raised in any feedback received. Responsibilities • The Academic Coordinator and the Administrative officer are jointly responsible for the collection, analysis and reporting of stakeholder feedback relating to academic programs. • Coordination of responses to feedback will be the responsibility of the Heads of Departments. Policy Provisions General Provisions • All students and stakeholders have the opportunity to provide feedback. • Student feedback is a core component of program evaluation but feedback is also sought from Alumni, Graduates, Parents, Industry partners and Academic peers. • Feedback processes will be systematic, rigorous and respectful of the rights of students and staff and will incorporate strategies to maximize student participation. • A range of feedback mechanisms including surveys, focus groups, informal comments and other participatory activities will be employed as appropriate. Collecting Feedback: • The Institute seeks student feedback in a form which can be captured, analyzed and reported every time a course is delivered through course end survey. • A core set of questions will form the basis of a survey deployed to systematically evaluate teaching and learning in all UG PG courses. •

Stakeholder feedback will be collected as required for specific purposes using methods appropriate for the specific feedback sought. Actions on summarized feedback: • All the feed backs received from various stakeholders are summarized and analysis is carried out at department level. • Recommendations made from the feedback comprise, recommendations to Board of studies for changes in the syllabus of the university and the suggestions made to management on procurement of facilities and equipments. • Recommendations received from the heads are discussed in HODs meeting and forwarded to management for approval/sanctions. The whole objective of the this policy is effective implementation of Curriculum for better learning and continuous improvement of the processes and practices.

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	Electrical Power Systems	24	Nill	14
BTech	Structural Engineering	24	Nill	24
BTech	Mining Engineering	60	Nill	47
BTech	Computer Science and Engineering	240	Nill	240
BTech	Electronics & Communication Engineering	180	Nill	180
BTech	Mechanical Engineering	240	Nill	240
BTech	Electrical & Electronics Engineering	60	Nill	60
BTech	Civil Engineering	180	Nill	180

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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
2017	4087	192	316	12	328

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	Numberof smart classrooms	E-resources and techniques used
328	328	214	102	102	55518

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, Students mentoring system is implemented in the institute wherein 15 to 20 students are assigned to a faculty member who acts as their mentor for the entire programme duration. Mentor regularly interacts with the students and monitors their academic performance and attendance. Students are counseled by the mentors, class advisors, subject faculties and HOD for improving their academic performance and attendance. Mentors and Class Advisors counsel the students regarding their performance and schedule additional lectures/practical's. At first year level, students academic and personal issues of concern are well looked after by the class advisor/mentors. The critical cases are handled by first year in charges. This way the students realize their responsibilities at the early stage itself. Mentoring system is followed by all departments from the second year onwards. The students are given guidance for career, personal, besides academic issues. A special arrangement also, is made available to the students to deal with psychosocial issues arising in cases like single parenting, bread earner in the family etc. For higher semesters, the mentors allocated to the students will council same group of students for three years i.e. the same set of students will be monitored and counseled till they have passed the course. The meetings of mentorship are conducted every month, in which students meet their mentors for academic and personal issues. The students who have less attendance and who have missed their internal tests are paid special attention from mentor's side. Even the students with many issues are asked to call parents for parents- mentor meetings. The mentor is also responsible to provide counseling to the student and provide guidance regarding personal and academic issues. The mentor keeps track on their improvements and counsels them accordingly. The role of the mentor is to nurture the students and guide them for any issues they are coming across. Students with personal/family problems if any are given counseling and support by a professional counselor. A large number of students who perceive the professional course are quite focused still they may fall short of score to be promoted to above sections. Such students are given counseling by the mentors and the subject teachers and remedial lectures are conducted. Students are supported and guided both in co-curricular and extracurricular activities. The mentor of the class discusses with each and every student individually and supports them in all the possible ways to enrich their academic performance. The mentors contact the parents and educate them, if required about their wards performance, and the academic programmes of the college as well as the support system and the monitor system the student and parents. The mentors always keeps a check on the attendance of the student, the marks/grades obtained in the internals externals examinations, and regarding his/her candidature in the campus placement and provides remedial coaching.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4279	328	1:13

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
328	328	Nill	50	51

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
2017	Dr. S. Sudhakara Reddy	Principal	Lifetime Achievement award

2017	Dr. S. Sudhakara Reddy	Principal	Lifetime Achievement award (from Venus International, Chennai)
2017	Dr. K. Shimola	Associate Professor	Awarded first prize for her presentation at International Conference, ICESCC-2017

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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
MBA	Master of Business Administration	I/I	12/01/2018	02/02/2018
BTech	Civil Engineering - 01	I/I	20/12/2017	30/12/2017
BTech	Electrical Electronics Engineering	I/I	20/12/2017	30/12/2017
BTech	Mechanical Engineering	I/I	20/12/2017	30/12/2017
BTech	Electronics Communication Engineering	I/I	20/12/2017	30/12/2017
BTech	Computer Science and Engineering	I/I	20/12/2017	30/12/2017
BTech	Mining Engineering	I/I	20/12/2017	30/12/2017
Mtech	Electrical Power Systems	I/I	27/01/2018	02/02/2018
Mtech	Structural Engineering	I/I	27/01/2018	02/02/2018

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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

553	8558	6.46

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://mrec.ac.in/COPO/2.6.1%20AY%202017-18.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
12	BTech	Information	3	3	100
05	BTech	Computer Science Engineering	238	234	98
04	BTech	Electronics and Communication Engineering	206	183	89
03	BTech	Mechanical Engineering	270	249	92
02	BTech	Electrical and Electronics Engineering	122	104	85
01	BTech	Civil Engineering	194	184	95
IE	MBA	Masters of Business Administration	53	51	96

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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%202017-18.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. K. Shimola

	View File

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
Nill	NIL	NIL	Nill	NIL

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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
Any Other (Specify)	06	AICTE-ISTE	300000	300000

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.01

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
PTC Creo Parametric 3.0(Workshop)	Mechanical Engineering	04/01/2018
Five Day Workshop on " Signal Processing and Image Processing using MATLAB"	Electronics and Communication Engineering	21/08/2017
Cloud Computing	Computer Science and Engineering	05/05/2018
FDP on Building Teacher Effectiveness	Civil Engineering	19/01/2018
FDP on Hand on Practice on E-TABS	Civil Engineering	10/07/2017
Work Shop On Integrated Water Resources Management – A Way To Sustainable Development	Civil Engineering	15/09/2017
workshop on Intellectual Property Rights Innovations	Electrical and Electronics Engineering	19/07/2017
Hands on Training on Graphical System Design in Engineering Education	Electrical and Electronics Engineering	27/12/2017
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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
Robo Soccer	K. Bala Krishna	Marri Laxman Reddy Institute of Technology and Management, Hyderabad	24/02/2018	Technical Event
Robo Pirates	B V N S Vivek	Marri Laxman Reddy Institute of Technology and Management, Hyderabad	24/02/2018	Technical Event
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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
NIL	NIL	NIL	NIL	NIL	Nill
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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
Electronics and Communication Engineering	4
Mechanical 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	47	1
International	ELECTRICAL AND ELECTRONICS ENGINEERING	43	1
International	MECHANICAL ENGINEERING	44	1
International	ELECTRONICS AND COMMUNICATIONS ENGINEERING	36	1
International	COMPUTER SCIENCE AND ENGINEERING	86	1
International	HUMANITIES AND SCIENCE	21	1
International	MASTER OF BUSINESS ADMINISTRATION	7	1
International	INFORMATION TECHNOLOGY	10	1
International	MINING	5	1

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
MBA	75
HUMANITIES AND SCIENCES	7
CSE	2
ECE	8
MECHANICAL	4
EEE	12
CIVIL	17

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Collapsible Electronic Storage Housing For Two Wheeler	Published	201741028098 A	25/08/2017
Apparatus To Automatically Draw Two-Dimensional Drawing	Published	201841017390 A	25/05/2018
Smart Compact Structural Instrument	Published	201741036984 A	27/10/2017

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
Optimization of post deposition annealing temperature of direct current magnetron reactive sputtered zirconium titanate thin films for	Rani D.J., Guru Sampath Kumar A., Rao T.S.	Journal of Alloys and Compounds	2017	6	Dept. of Physics, Malla Reddy Engineering College (A), Secunderabad-500100, Telangana, India	6

refractory oxide applications	

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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
Optimization of post deposition annealing temperature of direct current magnetron reactive sputtered zirconium titanate thin films for refractory oxide applications	Rani D.J., Guru Sampath Kumar A., Rao T.S.	Journal of Alloys and Compounds	2017	4	6	Dept. of Physics, Malla Reddy Engineering College (A), Secunderabad-500100, Telangana, India

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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	Nill	1	Nill	80
Presented papers	106	3	Nill	Nill

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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	Soil Testing	Opus Developers	100000
Civil Engineering	Column Markings	Chaitanya Engineering Works	180000
Electrical Electronics Engineering	Lightning Surges Protection and Power Supply Design to Communication Towers	Sri Venkateswara Enterprises	126000
Mechanical Engineering	CCTV camera Dome mould design	Pantech Prolabs India Pvt Ltd.	150000

Mechanical Engineering	Developing of solar energy based submersible pump to drive up to 20HP	SRRI Kandan Engineerings ANGU Pumps	80000
Mining Engineering	Geological Survey	SS Geological Consultancy	175000
Master of Business Administration	CRVJ Investment Consultants Pvt. Ltd.	Client survey	150000
Master of Business Administration	MRKR constructions	Sales force training	50000
Master of Business Administration	VK engineers	Sales executive training	30000
Electronics Communications Engineering	Hardware model for error free communication system	Pantech Solutions Pvt Ltd	84200
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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	Soil Testing	Laxmi Constructions	45000	15
Dr. Yogesh Madaria, ME, MREC	Simulation of Thermal Energy Storage Systems	K G Mech	35000	8
Dr. M.Lakshmi swarupa, EEE, MREC	LabVIEW Training Program	NI Insruments, Bangalore	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
Quit india day celebrations and new india pNSSledge	NSS UNIT	4	32
Teachers day celebration	NSS UNIT	212	566
Bathukamma celebrations	NSS UNIT	34	56
Rashtreya ektha diwas	NSS UNIT	8	19

Haryana Telangana youth meet	NSS UNIT	2	17
Rural immersion campaign	NSS UNIT	16	45
India Srilanka youth exchange programme	NSS UNIT	4	22
National youth day celebrations	NSS UNIT	21	55
NSS Programee officer at National level TOT held at RGNIYD, Tamilnadu.	NSS UNIT	10	20
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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
Awareness on Tail-End Farmers	Community Development Award	WALAMTARI (Govt. of TS) and Relaible Environmental Services (NGO)	86
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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 activites	Number of students participated in such activites
Pulse polio	NSS Unit	Polio drops	4	14
Digital India	NSS Unit	Online banking	10	32
Gender Issue	NSS Unit	beti padhao beti bachao	6	19
AIDS awareness	NSS Unit	AIDS Awareness	4	24
Swachh Barat Mission	NSS unit	Swachh bharat	24	72
[View File](#)				

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
Workshop	120	MREC(A) , National Instruments	15
Workshop	150	MREC(A),PGP Electronics Pvt.Ltd	3

Guest Lecture	160	MREC(A,Pantech Solutions Private Ltd.,Hyderabad	1
Guest Lecture	140	MREC(A),CAS/EDS Chapter, Hyderabad	1
Guest Lecture	150	MREC(A),Time Private Ltd., Hyderabad	1
Guest Lecture	160	MREC(A)	1

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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
INTERNSHIP	INTERNSHIP	INDUSTRY	08/05/2018	16/06/2018	4666

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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
IBM India Pvt. Ltd. (IBM)	18/12/2017	training for students in computer applications	100
EE Engineering Construction Services	05/03/2018	Internships, guest lectures	20
ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE LIMITED	24/01/2018	Internships trainings	50
PANTECH PROED Pvt.Ltd.	02/07/2018	Placement Training	50

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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
282.35	271.74

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Class rooms	Newly Added
Laboratories	Existing
Seminar Halls	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
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Newly Added
Campus Area	Existing
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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 patially)	Version	Year of automation
KOHA software	Fully	3.15	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	53812	12161073	3850	404316	57662	12565389
Reference Books	2972	943205	65	45120	3037	988325
e-Books	5989	188396	927	11485	6916	199881
Journals	623	1787238	137	287930	760	2075168
e-Journals	14254	2459288	9881	932112	24135	3391400
Digital Database	1	57820	2	57820	3	115640
CD & Video	7600	50000	15251	25600	22851	75600
Others(specify)	3	74000	3	90835	6	164835
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
G. Vishal Babu	Froth Floatation	LMS of MREC	27/08/2017

S. Srinivas Rao	Theories of Rock Failure	LMS of MREC	19/11/2017
Rakesh Kumar	Re-opening of sealed off areas	LMS of MREC	22/01/2018
Suman Hessa	Global Positioning Systems	LMS of MREC	17/02/2018
Dr.N Rajeswaran	Solar Energy	LMS of MREC	12/08/2017
Narendra Kumar Ch	Power Quality	LMS of MREC	24/11/2017
Kuchibhotla Chetaswi	Circuit Breakers	LMS of MREC	24/01/2018
Sama Bharathi	Choppers	LMS of MREC	15/03/2018
Dr. Charles Babu	Mining issues of data	LMS of MREC	04/08/2017
Dr. RP Ram Kumar	Introduction to XML	LMS of MREC	17/01/2018
View File			

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	1181	19	0	0	8	11	9	300	0
Added	360	4	0	0	0	2	0	0	0
Total	1541	23	0	0	8	13	9	300	0

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

300 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
Study Materials	http://mrec.ac.in/Examinations/ExaminationsStudyMaterials
Question Banks	http://mrec.ac.in/Examinations/ExaminationsQuestionBanks
Previous Question papers	http://mrec.ac.in/Examinations/ExaminationsQuestionPapers
Mrecacademics	http://mrecacademics.com/
DELNET	www.delnet.in
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)	www.ieeexplore.ieee.org
J-Gate (JET) (e-Journals e-Books)	www.jgateplus.com
J-Gate (JSMS) (e-Journal e-Books)	www.jgateplus.com
Springer (Mechanical) e- Journals	www.link.springer.com
Wiley Blackwell Civil Engineering (e-journals e-books)	www.onlinelibrary.wiley.com
Inflibnets N-LIST (e-Journals e-Books)	www.nlist.inflibnet.ac.in
Remotlog Authentication software	www.mrec.remotlog.com

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 incurredon maintenance of physical facilites
2144600	2084400	1423200	1389600

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 obtains the necessary requirements of class rooms, laboratories and other infrastructural resources from each HOD well before the beginning of the academic year. After validation of the requirements in IQAC the available resources are allocated to each department. Any new facility to be constructed / acquired is provided by the management before the semester begins. Wherever there exists a situation that a facility (a laboratory) is required by more than one department suitable adjustments in the time table would make the optimal use of the laboratory a possibility. Right from its inception in the year 2002 the college has been improving its infrastructure to meet its ever increasing growth. Additional blocks for academic and administrative purposes have been constructed. Floors have been added to the existing blocks to enhance the facilities. Renovation of older blocks and modernization of laboratories have been done to meet the ever changing academic requirements. The institution has a permanent manager to take care of all the construction work, be it add on constructions or maintaining the existing ones. The buildings are maintained for their up-keep and repairs on a regular basis. The house keeping team regularly maintains the buildings, corridors and other places clean and tidy. The wash rooms are maintained by a team on a regular basis to maintain their usability. The Departments managed by their heads are responsible for maintaining the laboratory equipment for their operational conditions. Before the beginning of the academic year the HODs would budget for repairs and maintenance in all their laboratories for the concerned academic year. They identify the agencies who would undertake the maintenance work and would get the equipment ready for operations before the beginning of every semester. The institution has an IT cell headed by a senior member of the faculty to oversee the procurement, maintenance, repairs and replacement of

equipment like computers, laptops, projectors and others in the domain area of information technology across the institution.

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	95	191000
Financial Support from Other Sources			
a) National	Telangana State E-Pass	2249	99769900
b)International	Nil	Nill	0
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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
Personal Counselling Mentoring	12/07/2017	7437	MREC(A)
Yoga Meditation	12/09/2017	1174	Yoga Trainer
Bridge Courses	07/08/2017	1079	MREC(A)
Language Lab	28/06/2017	1910	MREC(A)
Remedial Classes	07/08/2017	2048	MREC(A)
Soft Skill Development	19/06/2017	1161	Focus Academy
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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 passedin the comp. exam	Number of studentsp placed
2017	Placement Training	Nill	Nill	Nill	658
2017	Guidence & Counselling	Nill	479	Nill	Nill
2018	GATE/GRE/TOEFL/IELTS	Nill	Nill	46	Nill
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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	10

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
60	712	658	Nill	Nill	Nill

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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
2018	3	B.TECH	MECHANICAL ENGINEERING	MONTREAL COLLEGE OF INFORMATION TECHNOLOGY	MS

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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	2
GRE	7
TOFEL	1
Any Other	25

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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
Sports	Institute Level	62
Cultural Activities	Institute Level	24

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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
2017	First	National	1	Nill	14J41A0291	KANDALA MANIKANTA

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

The foundation accepts that the development of institute is conceivable with dynamic contribution of all the stockholders such as students, the staff, the faculty and the management. For that, the institute has formed various student councils. The institute has the best practice of picking up the student representatives from each class and nominating them to the 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 administrative body with the faculty and student representatives which perform under the leadership of faculty members as the faculty advisor. The student representatives circulate the information from college administration and other committees to all the students. The members from these student council committee are assigned different roles 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 every academic year. The council is accountable for conducting of 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 students' interest. The student representatives act as facilitators between students and faculty for the exchange of their views and opinions. These committees ensure that the maximum active involvement and engagement of the students and faculty members in various events and activities conducted by the institution. The activities of the council are carried on by the participation of all the faculty members. The student associations organize several 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 on 6th June, Blood Donation Camp, celebrating Engineers' Day on 15th September every year, Mehendi and Rangoli Competitions during Sankranthi and so on so forth. The student representatives in different committees perform various functions such as organizing sports day and cultural events. The institute offers students an opportunity to interrelate with the industry experts and learn the newest advancements in research and in their specializations. It tackles the problems of students in the campus, and the same can be communicated to the principal. Other duties of the student councils are for maintaining proper discipline in the campus and making the college campus clean and green. Effectively working in these committees, the students get a chance to communicate with faculty members, the staff, the principal and the management. Consequently, this knowledge helps students to develop leadership skills and organization skills through active participation.

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. (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. Malla Reddy Engineering College (Autonomous) has established its alumni association with few students. It has governing body with President, Vice-president, Secretary, Treasurer and General Secretary and Executive body and they extend their incessant similarity with the foundation. New body is picked once every two years. The alumni association is dynamic in propelling affiliations and family relationship among the graduated class, staff and the organization. Other than helping the graduated class in each and every believable ways, it in like manner credits its assistance to the school to achieve its regarded goals, its vision and mission. The organization adequately participates in all the activities coordinated by the alumni association. Our top alumnus are placed in various grand affiliations, most of them are delivering their obligations in different positions like Software Engineers, R D Engineers, NDT Engineers, System Engineers, Tech Support Engineers, Software Testers and other government affiliations. The alumni association outlines the moral, academic and mental impression of the understudies as they get different open entryways for partaking in patterns of getting, inspecting and exploring about the judicious data. Graduated class get-togethers are driven every year to help the current understudies for making care about various business openings that are accessible in this awful genuine world and the fundamental strategies to meet the necessities of genuine appraisals like GRE, TOFEL and other work arranged tests in open region. The association organizes guest lecturers, transitory position ventures, workshops and classes on various aptitudes to improve students data in particular and non-specific districts. It impels students to pick higher education in India and abroad. The alumni day is driven every year in the extended length of July. Students who have completed their B.Tech/M.Tech/MBA course can select the graduated class connection.

5.4.2 – No. of registered Alumni:

1121

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

89000

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)

Unique decentralization and effective Participative management: The institution has got a decentralized and transparent mechanism in management, administration, financial and academic affairs. This mechanism is delegating appropriate responsibilities from the top level management to low level and allows the top management to focus on policy making and major decisions. i. Governing body is the highest decision-making body which formulates/ amends rules and Regulations, delegates powers and responsibilities to various Committees, Principal, Heads of the Departments (HoDs), Heads of the Sections. The constitution of statutory bodies like Governing council, Academic Council, Finance Committee, Board of Studies are systematically carried out with specified functions and responsibilities as per the requirements to the regulatory/statutory bodies. These committees play a major role in policy

making of governance, academics, finance, research and teaching learning. The Principal ensures the smooth functioning of the institution with the support of Deans, There are 31 non-statutory committees working hand in hand in identifying possibilities, planning, organizing, implementing and monitoring all the activities of the institution. The Institute believes that the development of the Institute and achievement of quality depend on contribution of the employees of the Institute ii. The decentralized mechanism exists even at the department levels. Every department has Program coordinators at UG and PG level to look after the activities of each program. Decisions at department levels are taken by well-structured committees like Department Academic committee, Board of Studies, Department Development Committee, Class Review Committee. HODs are invited for the Governing council meeting and the Governing council members and management interact to develop a road map for the development of the departments and the institution. All Stakeholders of the institution have participative roles in various decision-making committees. External stakeholders like Statutory bodies nominees, State government Nominees, University nominees, Industry experts, Employees, Educationists, Scientists, occupy 20 of all the committee members. Faculty occupies 55 and Students, Alumni occupies 15 of the committee members. The remaining 10 of the committee members includes Management. The involvement of management and all the stakeholders including Head of the Departments, Faculty, Students, Alumni, employers, industry experts, educationalist, scientist, community representatives is significantly observed in various functional committees of the institution. This witnesses that the institution has decentralization of administration through committees and has participative management. A democratic approach is setup in the decision-making process, by which all the stakeholders of the institution could participate in the managerial decisions

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
Curriculum Development	Curriculum development is done. Every department 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 twice in a year. Choice Based Credit System (CBCS) has been implemented. 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.
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 Xcelerator, 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
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 3 stages. • 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
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 Work Shops
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.
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.
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.
Admission of Students	Admission of the students takes place through the exam EAMCET for UG, GATE/PGECET for PG and ICET for MBA.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

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

E-governace area	Details
Student Admission and Support	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
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.
Planning and Development	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.
Administration	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.
Finance and Accounts	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

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
2018	B.DhanaLaxmi	The Indian Society for Technical Education (ISTE)	The Indian Society for Technical Education (ISTE)	3500
2018	R.Sumati	The Indian Society for Technical Education (ISTE)	The Indian Society for Technical Education (ISTE)	3500
2018	Dr.J.Rex	The Indian Society for Technical Education (ISTE)	The Indian Society for Technical Education (ISTE)	3500
2018	C.Sriniva Gupta	The Indian Society for Technical Education (ISTE)	The Indian Society for Technical Education (ISTE)	3500
2018	Dr.R.Prasanna Kumar	Transformations in Engineering Education	SRM University	2000
2017	Mr. S.Rammohan Reddy	Design of machine elements	CMR	2000
2017	Dr. S. Surendranath	RECENT ADVANCES IN PCM	IIT BHUVANESHWAR	3000
2017	G.Jyothsna	Induction Program On Human Values	UGC-HRDC, JNTUH	2000

2018	B. Vamsi Krishna	Transformations in Engineering Education	SRM University	2000
2017	Dr. S. Surendranath	RECENT ADVANCES IN PCM	IIT BHUVANESHWAR	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)
2018	A Guest Lecture on "HVAC Designs" was conducted	Nill	30/01/2018	30/01/2018	32	Nill
2018	A Guest Lecture on "Dynamics of Machinery" was conducted	Nill	07/02/2018	07/02/2018	21	Nill
2017	One-Day worhshop on "Internet of Things	Nill	15/07/2017	15/07/2017	32	Nill
2018	:Integrated Water Resource Management: A Way to Sustainable Development"	Nill	06/01/2018	06/01/2018	16	Nill
2017	Nill	Seminar on STAD Pro tools	09/04/2018	09/04/2018	Nill	25
2017	Nill	Software tools in electrical engineering	08/09/2017	08/09/2017	Nill	31
2017	Recent Practices Developmen	Nill	13/11/2017	18/11/2017	30	Nill

Year				From Date	To Date		
	ts in Refr igeration Air-Condit ioning						
2018	NI LabVIEW Core 1 2 Course	Nill		14/05/2018	19/05/2018	40	Nill
2018	PTC Creo Parametric 3.0	Nill		04/01/2018	10/01/2018	25	Nill
2018	Nill	One Day Workshop on "Microc ontrollers and Embedded Systems"		10/01/2018	10/01/2018	Nill	8
[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
Workshop on Integrated water resource management-A way to sustainable development	13	01/06/2018	01/06/2018	1
IUCEE International Engg Educator P re- Certification Workshop	9	03/02/2018	06/02/2018	4
Machine Learning for Industrial Applications	9	11/06/2018	15/06/2018	5
Enterprise Application Development and Deployment on Cloud using IBM Bluemix	14	19/02/2018	22/02/2018	4
Next Generation MIMO and OFDM Wireless Technologies	1	08/12/2017	17/12/2017	10

Graphical System Design in Engineering Education and Researchusing LABVIEW Software"	12	27/12/2017	31/12/2017	5
To Tarin the trainers for implementation of INDUCTION PROGRAM	13	12/05/2018	15/05/2018	4
Fabrication and chacterisation of advanced Composites	10	05/09/2017	08/09/2017	4
Workshop on "Machine Learning with Python Programming"	20	21/06/2018	28/06/2018	8
FDP on Recent trends in Structural Engineering	8	21/08/2017	26/08/2017	6

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
50	50	12	12

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medical Insurance, Provident Fund ,Subsidized Transportation and Free Transportation during beyond working hours,	Medical Insurance, Provident Fund, Free Transportation	Subsidized Transportation and Free Transportation during beyond working hours, Aid for the Students Participating in Events outside college. Annual Prize Distribution (Culture /Sports),Anti-ragging Cell, Central Placement Cell, Soft Skills Programme, Career Guidance Scheme, Youth Festivals, Mentoring Program, Campus Recruitment Training

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. 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	300000	Faculty Achievements
[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 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 program (2) Parent Teacher Meeting to know about their ward's performance (3) Feedback on regular basis to improve the quality of the Institution

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

Software tools in electrical engineering (2) Advances in Welding, Types of Lathe Machines, Safety in Labs (3) One Day Workshop on "Microcontrollers and Embedded Systems" (4) Technical Training Program - CISCO (5) Accent Neutralization (6) Seminar on STAD Pro tools

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

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
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
2017	VISHESH-2017	15/09/2017	15/09/2017	15/09/2017	925
2017	LABVIEW	11/12/2017	11/12/2017	15/12/2017	36
2018	Sharpening Teaching Competence	25/05/2018	25/05/2018	26/05/2018	161
2017	Key note Lecture on Technical Paper Writting Technques	25/11/2017	25/11/2017	25/11/2017	156
2017	Awareness on IEEE Xplore Digital Library 2017	12/12/2017	12/12/2017	12/12/2017	128
2018	International Conference on Transformation in Engineering Education	04/01/2018	04/01/2018	06/01/2018	689
2018	Seminar on Career Guidance	12/01/2018	12/01/2018	12/01/2018	346
2018	Bees BET Mobile App Awareness programme	01/02/2018	01/02/2018	01/02/2018	124
2018	Phase-1 Pre Certification Workshop on IUCEE International Engineering Educators Certification Program	03/02/2018	03/02/2018	06/02/2018	68
2018	Infosys HR Manager Interaction with Students	19/02/2018	19/02/2018	19/02/2018	268
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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	23/09/2017	23/09/2017	150	Nill
Kaartheeka vana bhojanaalu	28/10/2017	28/10/2017	175	235
Sankranthi samburalu - Local harvest festival	11/01/2018	11/01/2018	500	600
International Women's day	08/03/2018	08/03/2018	850	Nill

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
Percentage of power requirement of the College met by the renewable energy sources A Solar Power plant is functional. 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	Nill
Ramp/Rails	Yes	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	6

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
2017	Nill	1	01/08/2017	15	Swacch Pakwada campaign	Fortnight of Swacch bharath activities	100
2017	1	Nill	09/08/2017	1	Quit India day celebrations and new India pledge	The spirit of Quit India movement was recol	160

						lected	
2017	1	Nill	05/09/2017	1	Teachers day	Inspirational anecdotes from the life of Dr Sarvepalli Radhakrishnan were recollected	150
2017	1	Nill	31/10/2017	1	Rashtriya ektha diwas	Inspiring incidents from Mr Vallabh Bhai Patels life were shared	180
2017	Nill	1	06/11/2017	1	Haryana Telangana youth meet	Social and cultural aspects were shared between the representatives of both the states	120
2017	Nill	1	11/11/2017	1	Rural immersion campaign	Execution and effectiveness of various schemes introduced by the Govt was studied and examined by the participants	2
2017	Nill	1	04/12/2017	1	India Srilanka youth exchange programme	Social and cultural aspects were shared between the repre	175

2018	1	Nill	12/01/2018	1	National youth day celebrations	Inspirational anecdotes from Swamy Vivekanandas life were shared	200
2018	Nill	1	13/02/2018	3	NSS Programme officer at National level TOT held at RGNIYD, Tamilnadu	Mr Balanji Reddy, P.O., MREC(A) attended this programme	1

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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	28/06/2017	MR17 regulations are introduced in this academic year 2017 - 18. A subject called Professional Ethics with the subject code 70M04 is introduced in this MR17 curriculum. This subject is prescribed as Mandatory Course for the students during their third year of study either in the v or vi semester. The prescribed syllabus consists of modules like Understanding Ethics, Engineering Ethics, Engineers responsibilities and rights, Engineers responsibility for safety and risk and finally Global issues and roles of engineers.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Anti drug awareness campaign	05/08/2017	05/08/2017	865

Clay Ganesha-Bucket immersion campaign	29/08/2017	29/12/2017	1200
International day of Yoga	21/06/2018	21/06/2018	200

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

Water sprinklers Usage of one side papers for rough work Presenting a sapling to the chief guest No plastic usage Tree plantation

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

PEDAGOGY TRAINING PROGRAMME Objective • Teachers are encouraged to design effective pedagogies involving scaffolding pupil learning beyond their current stage of understanding, with an emphasis on the importance of discussion, dialogue, the social context of learning and teachers' ability. • Teachers are encouraged to be learners. It relates to teaching across the curriculum, and focus on the quality of interaction and higher quality pupil thinking. Develop higher order thinking and meta-cognition, and make good use of dialogue and questioning in order to do so. Plan activities that promote higher order thinking skills. • Embed assessment for learning, improving outcomes for learners. • Evaluate their own teaching style and integrate it with digital learning pedagogy. • Teachers are encouraged to design their pedagogy after mapping their course so that their style of teaching culminates in activities, Goals, Objectives and Media Choices. • Bloom's taxonomy of educational objectives are kept as the background standard. The proportion of higher order questions are kept at around 50 per cent brought significant gains in terms of student attitude and performance. Successful questioning moves through a hierarchy from knowledge, recall though comprehension, analysis and application, to synthesis or evaluation. Pedagogy focuses explicitly on open-ended questions at the upper end of the taxonomy The Practice Because of personality traits all teachers differ in their believed style of teaching and the role they wish to play in the teaching learning process. At MREC(A) teachers are advised to take a student centred approach, which has an inquiry based activities. Teachers are also encouraged to be facilitator in the collaborative environment approach, sometimes even preferring multi-disciplinary approach. 1. To make the pedagogy effective give serious consideration is given to listening to student voices to gauge their level of comprehension. 2. Effective pedagogies depend on behaviour (what teachers do), knowledge and understanding (what teachers know) and beliefs (why teachers act as they do). So at MREC(A) teachers are advised to set model to students. 3. Effective pedagogies involve clear thinking about longer term learning outcomes as well as short-term goals. So the design of curriculum and the methods of evaluation are designed in such a way that long/short term objectives, are achieved. 4. Teachers are advised to adopt pedagogy to build on pupils' prior learning and experience. 5. In the process of consolidating learning, teaching system supports the weak learners and act as scaffolding to student learning. 6. To make pedagogy effective a range of techniques are used under the Management's encouragement, which include whole-class and structured group work, guided learning and individual activity. 7. At MREC(A) pedagogy focuses on developing higher order thinking and metacognition, and makes good use of dialogue and questioning in order to do so, to make it effetive. 8. Assessment for learning is embedded to make pedagogy effective. • Needs of a range of learners, as well as matters of student participation are taken into account. The research underpinning the claims is outlined below. Effective pedagogies

are inclusive and take the diverse. • To make pedagogy further effective connections between the teaching, and the broader industrial community and society. • Technology is changing at a rapid pace, and information is becoming a more prominent feature in society. Many of these arguments in support of educational uses of technology emphasize the fact that virtual worlds have the potential to foster a more student-cantered learning environment which is a shift from teacher centred methods – have the potential to create a more effective learning situation for the students. • Mind Map > Used to revise and remember things for a longer time • e-Learning > Enhanced learning through videos simulations • Think - Pair – Share Group Work >Develops skills like, taking initiative, leadership and conflict resolution, Learn to work in teams • Case Studies Scenarios>Understand concepts through real life situations • Personality Development>Develop a Winning Attitude • Brain Storming>Links knowledge or experience with the discussion in class • Practical>Get hands - on Training • Yoga Social work activities • Improve your retention power, understand the relevance of learning link with society. • Quiz> Competetiveness. Uniqueness: • To make class room learning at MREC(A) meaningful and effective the learning solutions are blended with technology. Teaching pedagogy engages students through active student centric learning strategies and is the key to building strong concepts and confidence. The methodology integrates employability skills, task based learning, simulated workplace and time allocated to practical work and troubleshooting. This kind of learning environment pr-ovides students a practical real world experience of an actual workplace. • It is recognised that, no two learners are alike in their abilities, interests and talents. Hence, the design of pedagogy on one hand should cater to the lagging student simultaneously all the opportunities to be in the forefront of latest in the knowledge. • Students are challenged to question their own thoughts and ideas, beliefs, and practices, to think critically and gain a deeper understanding. They are asked to try and figure out things on their own, and in their own way. They are encouraged to have knowledge about their own learning called Metacognition. • Lot web based application and audio visual materials are developed and practice contexts. Out of research that is happening some unique pedagogy are developed. • Digital videos were recorded of well researched teachings dialogue among participants and resource person, desktop videoconferencing that has opened up the classroom environment and provided opportunities to share our knowledge with others email correspondences multimedia and web based resources enabled us to design, develop and evaluate for use in teaching. i • Students and faculty are currently executing Projects where communities are contextual to their needs. These projets ensure development of social sensitivity towards problems of under developed and poverty. • Competency Mapping: The in-house expert panel, maps the competencies of the students, in order to guide them in their academic pursuits. Feed back of students are also very valuable in deciding the methods of pedagogy adopted by different teachers. • Students are selected for the Internships by the companies where students contribute in fresh thinking of the industrial problems. They come back after executing their project and they present and share the details of the projects. • The institute arranges regular visits to select industrial and commercial undertakings, to enhance their experience of practical problems and solutions.. • Consultancy: Experienced faculty are involved in the sponsored research work for industry. Since students are actively involved in the consultancy, this enhances their learn-by practice. Constraints: • In practice, the rate of change in new technologies where technologies evolve rapidly and newer technologies are created and becomes popular. In such circumstances, teacher educators must perpetually examine how technology selection facilitates and constrains the intended learning outcomes of the courses they teach. • When technology is changing or new technology is created, the resources, training that teacher himself receives and achieves mastery, in them is a big constraint, particularly, when

the older technology is still in use. • The institution proposes to dedicate spare some teaching faculty always forward looking, so that teacher community is lagging behind. Evidence of Success: • The metrics to measure the success at MREC(A) are both qualitative and quantitative inputs from students. • The feed back received from the students is indicating that in general students them selves have appreciated the efforts of teachers which helped their comprehension of the subject matter. • The feed back from parents has been good. The increase in the pass percentages and the marks obtained has given satisfaction to the teachers and parents alike. • The employment rate of the passed out students have progressively improved, which indicates the belief the industry representatives on the students of the institution. Problems Encountered and Resources required: • As mentioned in the constraints the development of teaching pedagogy for rapidly evolving technologies is a problem encountered as the rate of change in the recent years is very rapid in some sectors. • To do justice in such circumstances the limited resources of the institutions have in terms` of manpower to spare and money to be spent in sending teachers for advanced training becomes a bottle neck in the better performance. • If there are any sponsored schemes of financial assistance from the Government the problems can be better encountered. Summer Internship Objectives Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, awide array of people can benefit from Training Internships in order to receive real world experience and develop their skills. An objective for this position should emphasize the skills you already possess in the area and your interest in learning more. 1. Assist the students development of employer-valued skills such as teamwork, communications and attention to detail. 2. Expose the student to the environment and expectations of performance on the part of accountants in professional accounting practice, private/public companies or government entities. 3. Enhance and/or expand the students knowledge of a particular area(s) of accounting.

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%202017%20-%2018.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

Programmes like Haritha haaram, Swaccha bharath pledge etc are conducted under the auspices of the institute National Service Scheme units. Swaccha bharath campaign is conducted in the neighbourhood village of Dhulapally, in association with the village panchayath board. Massive bucket immersion, a unique activity of its kind is organised by the institutes NSS units on Aug 29, 2017. Apart from all these programmes, NSS organised a youth exchange programme with Haryana on Nov 6, 2017. A similar kind of Youth exchange programme is organized with the youth of Srilanka country, on 04 Dec 2017. The institute organised Anti ragging and anti drug awareness programme on Aug 5, 2017, in association with the Police personnel of the local pet basheerabad police station. The student participants are appraised about the ill effects of - involving in ragging and ill effects of drug consumption. The institute celebrated the National Sports Day, in memory of the birth anniversary of the Indian Hockey legendary Mr. Dhyanchand. A three day workshop on Student Consortium for Advancement and Learning in Engineering education (SCALE) is conducted in association with the Indo Universal Collaboration for Engineering Education (IUCEE) from Sep 7 - 9, 2017. The workshop is conducted for the students, by the students. Various tracks related climate change, rural infrastructure etc are identified in the workshop under the theme -

Transformative youth and engineering education. Around 180 enthusiastic students participated in the workshop. The institute celebrated Vishesh 2k17 - Engineers day with a modern outlook and Bathukamma samburalu with a traditional concern on 15 Oct 2017 and 23 Oct 2017 respectively. The institute could arrange lectures by eminent professors - one for faculty and one for students. Prof. L. Pratap Reddy, ECE department, JNTUH delivered a lecture on Curriculum design on 26 Oct 2017. Prof. Rao Vemuri, University of California, USA delivered a lecture on Computational intelligence and machine learning on 27 Oct 2017. Promoting the concept of Entrepreneurship among the students, the institute partnered with iB Hubs to conduct a boot camp programme on 31 Oct 2017. Mr. Renen Das from i Exora Tech conducted a session on Entrepreneurship for MBA students on 14 Nov 2017. Eminent scholar and internationally renowned researcher, The renowned University of the USA, Purdue University introduced a novel concept called Engineering Projects in Community Service (EPICS). Prof. William Oakes coordinates the EPICS programme. He visited the institute on 29 Nov 2017 to guide the students regarding the EPICS concept. Mr. Kantha Reddy, Director (Operations), IUCEE coordinated the visit. A 5 day training programme on LabVIEW software is conducted for III B. Tech. students of EEE and ECE from Dec 11, 2017 onwards by the certified trainers Mr. Vijay Chandan and Mr. Anish. Around eight papers are presented in the International Conference on Transformations in Engineering Education (ICTIEE 2018) organised at Bennett university, Noida and Thiagarajar College of Engineering, Madhurai. The institute received Transformational leadership award during the conference.

Provide the weblink of the institution
http://www.mrec.ac.in/NAAC/Criterion7/ID%20AY%202017-18.pdf

8.Future Plans of Actions for Next Academic Year

i. To encourage quality research publications in SCI and Scopus indexed journals Research and academics should go hand in hand in higher education in general and engineering education in particular. Looking at the importance of Research, the institute stressed on research paper publications by the faculty. Initially the thrust was on the quantity. Now the institute wants to focus on the quality of publications rather than quantity. Therefore in order to motivate the faculty towards the publication of research paper in Science Citation Index (SCI) and Scopus indexed journals, it is proposed to give monetary incentives to the faulty members who publish in such reputed journals from 2018 - 19 onwards. ii. To host ICTIEE 2019 conference Indo US Collaboration for Engineering Education, started by Prof. Krishna Vedula was subsequently renamed as Indo Universal Collaboration for Engineering Education (IUCEE). The prime objective of this organization is to help the member institutes in the transformation of Teaching Learning Process. The Outcome Based Education (OBE) strongly advocates and supports the learner centric system. Therefore what is learnt by the student becomes important than what is taught. Also the present generation students, the so called millennial students need a different way of teaching altogether. The conventional Chalk - board style of teaching should be supplemented and complemented by presentations, demonstrations, animations, active learning techniques / strategies, collaborative learning techniques etc. IUCEE helps the member institutes in training their faculty members in the above pedagogical practices. In order to create a perfect platform for the experts and the faculty members to exchange their ideas on these pedagogical practices, the pros and cons in the implementation of these practices etc, IUCEE organizes International Conference on Transformations in Engineering Education (ICTIEE) every year. The institute is associated with the activities of IUCEE since 2016 - 17. A small delegation of faculty members was sent to the two such conferences conducted in January 2017 in Hyderabad and January 2018 at Noida. This conference accommodates paper presentation sessions, workshops on various tools, key note sessions, expert lectures and panel discussions. Around 40 - 50 international experts from

different parts of the world like the USA, Austria, Australia etc actively participate in these conferences. Looking at the magnitude of learning possible in these conferences, the institute made a bid to organize the conference ICTIEE 2019. Fortunately, the bid is accepted and the institute plans to conduct the conference from Jan 7 - 8, 2019 in a grand scale. iii. To apply for renewal of N. B. A. for the PG programmes: The two Post Graduate programmes, M.Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) got accredited by N. B. A. in the academic year 2016 - 17 which was valid till 2017 - 18. Upon the submission of compliance the accreditation is extended till the academic year 2018 - 19. Therefore an application needs to be submitted in the prescribed format for the renewal of the accreditation from 2019 - 20 onwards. Also an application needs to be submitted