



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
Name of the head of the Institution		Dr. A. Raveendra
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		director@mrec.ac.in
Address		Maisammaguda(H), Gundlapochampally Village, Medchal Mandal
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. N. Rajeswaran																								
Phone no/Alternate Phone no.	08885542037																								
Mobile no.	7382211597																								
Registered Email	iqac@mrec.ac.in																								
Alternate Email	eeehod@mrec.ac.in																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	http://mrec.ac.in/AOAR/AOAR%20AY%202018-19.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																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.01</td> <td>2010</td> <td>28-Mar-2010</td> <td>27-Mar-2015</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.20</td> <td>2015</td> <td>25-Jun-2015</td> <td>24-Jun-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.01	2010	28-Mar-2010	27-Mar-2015	2	A	3.20	2015	25-Jun-2015	24-Jun-2020
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.01	2010	28-Mar-2010	27-Mar-2015																				
2	A	3.20	2015	25-Jun-2015	24-Jun-2020																				
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	Date & Duration		Number of participants/ beneficiaries																						

IQAC		
14th Graduation, Placement and Alumni day	13-Jul-2019 1	561
Engineer's Day VISHESH 2019	15-Sep-2019 1	346
Robotics and it's Applications	22-Jan-2020 4	653
Technical & Cultural Fest AKSHARA	13-Mar-2020 2	853
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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 365	0
View File				

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

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

5

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

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

No

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

Remedial classes for slow learners Surprise visit to classes and labs for quality checking in teaching and learning Motivated faculty to submit research projects Monitored the implementation of mandatory induction programme for I B. Tech. students Incentivised quality research publications Encouraged the faculty members to take up NPTEL courses

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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
Introduction of new UG programmes	Necessary documentation is completed and submitted to AICTE. Four new UG programmes - CSE (Artificial Intelligence & Machine Learning), CSE(Cyber Security), CSE(IoT) and CSE(Data Sciences) are sanctioned from the academic year 2020 - 21 onwards.
ACT hours	ACT hours are implemented across all years of study in UG programmes to assess the level of understanding of the students on weekly basis.
Renewal of accreditation by NBA for the five UG branches	The necessary documentation is in progress
Application for NAAC(III cycle)	The necessary documentation is in progress
Renewal of autonomy granted by the University Grants Commission	The files relevant to UGC autonomy are verified and updated wherever necessary.
JNTUH affiliation for the academic year 2020 21	Documents necessary for the affiliation are submitted to the affiliating University, Jawaharlal Nehru Technological University, Hyderabad (JNTUH)
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Governance	09-Aug-2019

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

Yes

Date of Visit

06-Sep-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

21-Mar-2020

<p>17. Does the Institution have Management Information System ?</p>	<p>Yes</p>
<p>If yes, give a brief description and a list of modules currently operational (maximum 500 words)</p>	<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, SAC,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</p>

from these primary modules the website is also integrated with an e-library. It also provides information about all the activities conducted in the campus. Affiliation information of the college is also displayed in website. Grievance page is also available where stakeholders can report their grievances to the college authorities. Student Dashboard is available wherein students can register and practice various courses which will help them in strengthening their employability skills. 1.SMS gateway to send important notifications to different stakeholders. 2. Installation of CCTVs at various parts of the college.

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	12	Information Technology	01/07/2019
BTech	04	Electronics and Communication Engineering	21/06/2019
BTech	02	Electrical and Electronics Engineering	04/07/2019
Mtech	07	Electrical Power System	04/07/2019
BTech	03	Mechanical Engineering	21/06/2019
Mtech	15	Machine Design	21/06/2019
Mtech	21	Thermal Engineering	21/06/2019
BTech	05	Computer Science and Engineering	01/07/2019
Mtech	58	Computer Science and Engineering	01/07/2019
BTech	01	Civil Engineering	01/07/2019

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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	Null	Null	Engineering	01/07/2019

			Mathematics-I -- 80B01	
BTech	Nill	Nill	Basic Electrical and ElectronicsEngi neering -- 80201	01/07/2019
BTech	Nill	Nill	Engineering Graphics -- 80301	01/07/2019
BTech	Nill	Nill	Engineering Mechanics -- 80304	01/07/2019
BTech	Nill	Nill	Basic Electrical and Electronics Engineering lab -- 80202	01/07/2019
BTech	Nill	Nill	Engineering Graphics Lab -- 80302	01/07/2019
BTech	Nill	Nill	Engineering Mechanics Lab -- 80305	01/07/2019
BTech	Nill	Nill	English -- 80H01	01/07/2019
BTech	Nill	Nill	Engineering Mathematics-II -- 80B06	01/07/2019
BTech	Nill	Nill	Programming for Problem -- 80501	01/07/2019
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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
Nill	NILL	Nill
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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	01/07/2019
BTech	Electrical & Electronics Engineering	04/07/2019
BTech	Mechanical Engineering	21/06/2019
BTech	Electronics & Communication Engineering	21/06/2019

BTech	Computer Science and Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BTech	Mining Engineering	22/05/2019
Mtech	Structural Engineering	01/07/2019
Mtech	Electrical Power Systems	04/07/2019
Mtech	Machine Design	21/06/2019
Mtech	Thermal Engineering	21/06/2019
Mtech	Computer Science and Engineering	01/07/2019
MBA	Management of Business Administration	17/06/2019

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
Python programming	09/07/2019	239
Data Structures and Analysis of Algorithms	02/03/2020	242
Oracle database Programming with SQL	05/03/2020	51
NI Lab VIEW CLAD Course	18/11/2019	69
LAB VIEW Software (Module II)	16/09/2019	98
Basics of LAB VIEW Software (Module I)	05/08/2019	121
CRT - CSE	10/06/2019	154
CCNA Module I	01/08/2019	22
COURSERA- Google Cloud Platform (GCP)	21/08/2019	54
Machine Learning	05/08/2019	248
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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	588
BTech	Electrical & Electronics Engineering	194
BTech	Mechanical Engineering	953
BTech	Electronics & Communication Engineering	177
BTech	Computer Science and Engineering	768

BTech	Mining Engineering	48
BTech	Information Technology	98
Mtech	Structural Engineering	4
Mtech	Electrical Power Systems	14
Mtech	Machine Design	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>Feedback obtained from various stake holders offers great help in improving the institution and contributes highly to its overall development. It provides a clear expectation of performance by the stakeholders and gives insight into the strengths and weaknesses of the institution. Feedback is in fact the key to the institution's success. The feedback is collected annually from all the stakeholders and is used in the following places</p> <ul style="list-style-type: none"> • To check whether the Vision and Mission of the departments as well as the institution are being met. • To take inputs while Forming and updating program curriculums. • Improving quality of the various programs offered by the institute. • To check Attainment levels of the PEOs (Program Educational objectives) . • To know if the infrastructural facilities and other facilities provided by the institution like library , Wifi , transport, hostel etc are good. • Analyzing the impact of the teaching learning methodologies used in the institution. • To analyze the performance of faculty. <p>Feedback is collected from following stakeholders :</p> <p>Student feedback :</p> <ul style="list-style-type: none"> • A Graduate Student Exit Survey is done for the outgoing students in which questionnaires are answered by the students . The questions are framed in such a way that , they directly relate to the attainment of PEOs . • The Departmental Advisory committee to give inputs and help in the improvement of the program. • A CMC(Class Monitoring Committee) meeting consisting of students from every year (IInd, IIIrd and IV) , is conducted twice in semester to know the status of the courses being taught and identify the difficulties of students if any. Appropriate measures are immediately taken by the heads of the department to resolve them. • Feedback on faculty is taken from students at the end of every semester to know about the faculty performance. This gives faculty an opportunity to assess their strengths and weaknesses and improve accordingly. <p>Alumni feedback : Feedback from Alumni is collected every year to know the accomplishment/progress in their professional advancement after graduation, based on the Graduate Programme Study at the institution. This feedback also helps to find out whether the programme has helped them in carrying out self learning post their study at the institution. This feedback helps in assessing the status of the institution with respect to the industry demands. It gives an insight into the various modern technologies that a graduate needs to be aware of so as to fare well in the industry. The department/institute analyzes these feedbacks and updates the programs</p>

accordingly. Parents feedback: The feedback from parents is taken as inputs and are treated as sources of inspiration and encouragement for fine tuning our academic processes. This feedback helps in knowing the satisfaction level of parents with reference to the curriculum offered, laboratory equipment provided and modern scientific tools available, student transport/ hostel facilities, safety and security measures taken up by the institution, medical facilities, infrastructural facilities, campus placement

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	171
BTech	Electrical and Electronics Engineering	120	Nill	85
BTech	Mechanical Engineering	240	Nill	182
BTech	Electronics and Communication Engineering	180	Nill	180
BTech	Computer Science Engineering	240	Nill	240
BTech	Information Technology	60	Nill	60
BTech	Minining Engineering	60	Nill	39
Mtech	Structural Engineering	30	Nill	27
Mtech	Electrical Power systems	30	Nill	19
Mtech	Thermal Engineering	30	Nill	15

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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
2019	3872	481	300	17	317

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
317	317	218	104	104	69570
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)

The students of a class are attached to a faculty called as the Faculty Advisor / Mentor. The curricular activities and co-curricular activities of the student are channeled only through the Faculty Advisor. Further, faculty Advisor will also help the students in registering the courses, monitor their attendance and progress and council them periodically. After each internal Assessment test, a Class Committee meeting is convened by the Head of the Department. The performance of the students are discussed in presence of the committee members comprising of student representatives, faculty handling courses, Faculty Advisor / Mentor, Program Coordinator and the Head of the Department. The faculty Advisor maintains a record sheet for each of his/her ward. The record sheet contains all information concerning the student's attendance marks obtained in the end semester examinations, achievements if any in curricular, co-curricular and extracurricular activities. Student mentoring plays a vital role in a student's life. Hence, the students are advised to meet their mentor frequently and discuss their problems freely with them. They should also take care to see that all information concerning their progress and achievements in the college are duly entered in the record sheet.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4353	317	1:14

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
317	317	Nil	83	84

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
2020	Mr B Vamsi Krishna	Assistant Professor	Innovative Professor of the Year Award - Global Teaching Excellence Awards 2020

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination

BTech	01	I/I	20/12/2019	06/01/2020
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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
577	8706	6.63

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%202019-20.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	197	187	95

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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%202019-20.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. Shiva Reddy M S
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
National	Gouri Shankar Sharma	Ph.D Admission	17/09/2019	NIT, Raipur
National	R.E.S. Chaitanya Kumar	Ph.D Admission	22/07/2019	IIT (BHU), Varanasi

National	S. Srinivas Rao	Ph.D Admission	01/08/2019	NIT, Rourkela
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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	TEQIP	3	3
Major Projects	1095	AICTE	54.44	42.9
Any Other (Specify)	1095	AICTE	10.49	8.99
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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
FDP on Research Methodologies and IPR	Civil Engineering	17/02/2020
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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
Design Validation Plan of Go-Kart	B. Saidileep	Nexus Motorsport	12/03/2020	Go-Kart Design
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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
M-HUB	Ram Singh	CMR Educational Society	Xitik Technoism	Smart Automation	31/12/2019
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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	1
Mechanical Engineering	3

Computer Science and Engineering	5
Humanity and Sciences	3
Civil Engineering	2

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	CE	51	1
International	EEE	56	1
International	ME	48	1
International	ECE	34	1
International	CSE	54	1
International	IT	17	1
International	Mi.E	12	1
International	MBA	35	1
International	H S	36	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
MBA	53
Computer Science and Engineering	10
Electronics and Communication Engineering	3
Mechanical Engineering	2
Electrical and Electronics Engineering	23
Civil Engineering	4
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
An Efficient Device and a Methodology to Identify the Quality of Construction Materials	Published	202041006605 A	28/02/2020
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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
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Nusselt number and friction factor correlations of three sides concave dimple roughened solar air heater	Kumar V.	Renewable Energy	2019	10	Malla Reddy Engineering College (Autonomous)	10
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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
Mechanical and material properties of natural and glass fiber hybrid polyester composites	Karthick eyan N.K., Naresh Kumar T., Amirthalin gam P., Dinesh Kumar S.	International Journal of Innovative Technology and Exploring Engineering	2019	3	8	Malla Reddy Engineering College (Autonomous)
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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	18	21	58
Presented papers	Nil	15	5	58
Resource persons	Nil	Nil	9	3
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Non Destructive Testing	EE Engineering Consultancy Services	500000
Electrical Electronics Engineering	Drone	Olive Drone Tech.,	160000

Mechanical Engineering	Customize tool for boring engine cylinder	Preto Tooling Systems, Hyderabad	145000
Mechanical Engineering	Customize press tool	VRR Tool Tech, Hyderabad	92000
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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	AutoCAD	IIIS	48000	10
Dr. T. Rajesh, EEE, MREC	Drone Technology	Olive Technologies, Hyderabad	25000	8
Dr. T. Raja Sekar, EEE, MREC	PCB Design and Fabrication	Xitik technoism, Hyderabad	20000	10
Mr. S. Udaya Bhaskar, ME, MREC	3D Modelling of Moulds	Moldtek Engineers	45000	12
Dr. B. Dhatreyi, ME, MREC	Analysis of Dies and Moulds	Eqic Moulds and Dies	35000	10
Dr. S Kannan Mr. G Satish Kumar, IT, MREC	Training on Computer Fundamentals	Innovative Concept School, Shapur Nagar, Hyderabad 500055.	5000	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
World no Tobacco Day	NSS UNIT I II	3	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
Sensor Practices at Reservoirs	SMART Technologies Award	Relaible Environmental Services (NGO)	128
View File			

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
International Yoga Day	NSS UNIT I II	International Yoga Day	5	100
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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
Project	Dr. T. Rajesh	Olive Technologies, Hyderabad	180
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
Workshop	3D Printing - The Future of Manufacturing	Garuda 3D Beside Dena Bank, Chandanagar, Hyderabad-500050 Ph. 9493393684	23/12/2019	24/12/2019	130
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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
Ark Infra Developers private Ltd	24/11/2020	Internships and placements	8
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
128.46	111.46

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
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	58411	12572538	749	317149	59160	12889687
Reference Books	3084	996492	143	33125	3227	1029617
e-Books	6916	199811	3302	13500	10218	213311
Journals	760	2075168	139	238434	899	2313602
e-Journals	24135	3391400	10426	1091078	34561	4482478
Digital Database	1	56350	Nil	Nil	1	56350
CD & Video	7600	50000	15251	25600	22851	75600
Others(s pecify)	3	74000	3	106720	6	180720
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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	Date of launching e-
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		is developed	content
Dr. Yogesh Madaria	Heat Exchangers	LMS of MREC	22/10/2019
Dr. A. Paul Praveen	Design of IC Engine Parts	LMS of MREC	12/11/2019
Dr. Shaik Hussain	Boilers	LMS of MREC	21/01/2020
B. Vamsi Krishna	Plastic Analysis, Shape Factor and Collapse Mechanism	LMS of MREC	18/08/2019
Dr. Rex	Design of Plate Girders	LMS of MREC	04/02/2020
Dr. Vivek Vardhan	Bricks and Stones	LMS of MREC	11/03/2020
Dr. Jagannadha Kumar	Flexible and Stiffness Matrix	LMS of MREC	23/03/2020
Dr. Yogesh Madaria	Psychrometry	LMS of MREC	04/08/2019
Dr. S. Udaya Bhaskar	Gyroscopic Motion	LMS of MREC	30/09/2019
Dr. B. Dhatreyi	Group Technology	LMS of MREC	05/10/2019
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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	1871	25	0	0	8	15	9	500	0
Added	25	0	0	0	0	0	0	0	0
Total	1896	25	0	0	8	15	9	500	0

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

500 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
Subject Notes	http://www.mrec.ac.in/studymaterials.html
Question Banks	http://www.mrec.ac.in/Questionbanks.html
Previous year Question papers	http://www.mrec.ac.in/Previous_Question_Papers.html
Online classes and E-Content	http://mrecacademics.com/

E-Content developed	http://mrec.ac.in/E-content.html
e-Library	http://119.235.48.76:2048/login
IEEE All Society Periodicals Package	www.ieeexplore.ieee.org
DELNET (Development Library Network)	www.delnet.nic.in
Inflibnets N-LIST Program	www.nlist.inflibnet.ac.in
Knowledge Hub Engineering e-library (k-hub)	k-hub.in
DOAJ (Directory of Open Access Journals)	www.doaj.org
DOAB (Directory of Open Access Books)	www.doab.org
DOAR (Directory of Open Access Repositories)	www.opendoar.org
NPTEL Video and Web Lectures	www.nptel.ac.in
JNTUH eLSDM e-Learning portal	jntuh-elsdm.in
MIT Free Open CourseWare	www.ocw.mit.edu
Stanford University Free Open CourseWare	www.courseware.stanford.edu

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
1925000	1852800	1345000	1236000

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. Institute makes budgetary provision under different heads for maintaining and utilizing the campus infrastructure facilities. Institute development committee assigned enough funds for maintenance and repairing. The allocated funds are utilized under the observation of various monitoring committees such as Purchase committee, Repair and maintenance committee, Sports Committee, Library committee, Lab Maintenance Committee, Students Feedback committee etc. of the college. To maintain and upkeep the infrastructure Institute facilities and equipments, following activities are undertaken by college:-

- There is Stock Maintenance Committee in every department, who maintains the stock register by physically verifying the items round the year.
- Department wise annual stock verification is done by concerned Head of the Department.
- Regular maintenance of Computer Laboratory equipments is done by Laboratory Assistant along with Laboratory attendant and they are headed by Lab Maintenance Committee Convenor.
- Overall development of campus is done by Campus Discipline and Cleanliness Committee of the college.
- Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute Fourth Class Employees.

<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	72	144000
Financial Support from Other Sources			
a) National	Telangana State E-Pass	2163	98928700
b) International	Nil	Nil	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 implementation	Number of students enrolled	Agencies involved
Yoga Meditation	20/09/2019	1167	Internal Faculty (MREC)
Personal Counselling Mentoring	08/07/2019	7176	Internal Faculty (MREC)
Bridge Courses	01/08/2019	761	Internal Faculty (MREC)
Language Lab	08/07/2019	1867	Internal Faculty (MREC)
Remedial Classes	05/08/2019	807	Internal Faculty

			(MREC)
Soft Skill Development	24/06/2019	2066	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 passed in the comp. exam	Number of students placed
2019	Placement and Training	Nil	Nil	Nil	822
2019	Guidance & Counseling	Nil	658	Nil	Nil
2020	GATE/GRE	Nil	Nil	25	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
3	3	6

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Amazon	212	8	Nil	Nil	Nil
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	2	B.Tech	ECE	IIIT Hyderabad	Master of Science in Information Technology
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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	7

GRE	15
TOFEL	4
Any Other	5
View File	

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

Activity	Level	Number of Participants
cultural Activities	Institute Level	24
Sports	Institute Level	80
View File		

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
2020	Winner	National	1	Nil	18J41A04D1	ABHILASH
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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 institution strongly believes that the progress is possible with active participation of all the stakeholders such as the students, the staff, the faculty and the management. For that, the institution has established student councils. The institute has the best practice of selecting the student representatives from each class and nominates them to a range of student council committees. These committees comprises 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. Every committee has its own executive body with the faculty and student representatives which functions or operates under the dynamic leadership of faculty members as the faculty advisor. The student representatives disseminate the information from college administration and other committees to all the students. The members from these council committee are assigned different roles in academic and administrative bodies for smooth conduct of all the events or activities in the campus. The aim of these committees is to ensure continuous range of campus activities in the particular course of an academic year. The council is responsible for conducting of many events and activities throughout the year in the campus such as curricular, co-curricular and extracurricular activities where the students assist the teachers in arrangement, organization and execution of different students centered activities. Student representatives act as facilitators between students and faculty to exchange their views and opinions. These committees ensure that the optimum involvement and engagement of the students and faculty members in various events and activities conducted by the institution. The activities of the council are supported by participation of all the faculty members. These student associations organize several activities 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 also take part active participation in various extension activities such as Swachh Bharat Abhiyan, Tree plantation,

Yoga Day, Blood Donation Camps, celebrating Engineers' Day, Mehendi and Rangoli Competitions and so on so forth. The students in different committees perform various functions such as organizing sports day and cultural activities. The institute also provides students a chance to interact with industry experts and learn latest advancements in research and in their specializations. It also addresses the problems of students in the campus, and the same can be communicated to the principal. Other responsibilities of these councils are for maintaining proper discipline in the campus and making the college campus clean and green. Working in various committees, the students get an opportunity to interact with faculty members, the staff, the principal and the management. Therefore, this exposure helps students to develop leadership skills, critical thinking and management 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. 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 incredibly 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, RD Engineers, NDT Engineers, System Engineers, Tech Support Engineers, Software Testers and other government organizations. The alumni association conducts 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, CAT and other job oriented examinations in the 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 themselves 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:

760

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

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)

Decentralization and Participative management: Institution has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system. 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 council The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee headed by the Principal in order to fulfill the vision and mission of the institute. Governing council 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
Admission of Students	<p>The admission process followed in the college is through two categories namely Category-A (Convener quota) and Category-B (Management/NRI quota) as per the norms prescribed by the State Government. Category-A (Convener quota): 70 of the seats are filled following reservation norms specified by the government. UG: Admissions into UG programmes in the college are made by Convener, EAMCET, who is nominated by the State Government. The admissions are based on the state-wide ranks obtained by students in EAMCET entrance exam. PG: Admissions into PG programmes are based on the merit of candidates in GATE, PGCET and ICET. Category-B (Management/NRI quota): 30 of the seats are filled through Management/NRI quota. UG: The admissions though based on merit in AIEEE/IIT JEE mains, EAMCET ranks, Intermediate Public Examinations (IPE) marks. PG: The admissions are based on merit: the order of merit is GATE score, PGCET ranks for ME/M.Tech, ICET ranks for MBA MCA and the left over seats, if any are filled on the basis of UG marks.</p>
Industry Interaction / Collaboration	<p>The Malla Reddy Engineering College (Autonomous) facilitate exposure of industrial atmosphere to students through industrial visits. 1. Industry Institute Interaction Cell (IIIC) .The collaboration is focused on industrial training, curriculum development, technical workshops and experts. Innovation and Startups in collaboration with Industries .Signed MoU with Purdue University to implement EPICS (Engineering Projects in Community Services)</p>
Human Resource Management	<p>The college has excellent human resource management strategies. The grievance cell addresses issues for both staff and students. Faculty Club, Recreation Club, Staff Welfare Club. Salaries are paid through Union Bank Of India for all the staff. Quality enhancement measures are taken by</p>

deputing faculty to FDPs/STTPs. As a part of Quality Improvement programme, review and enhancement of HR policies and procedures of the institution has been completed and an updated and comprehensive HR framework would be in place before the beginning of the academic year.

Library, ICT and Physical Infrastructure / Instrumentation

There is an independent two floored building to accommodate the Library. Each department has library committee to recommend books for procurement. The latest editions of books and multiple copies of existing books are purchased. Every department has a departmental library which is meant for staff and students of the department. Library has a digital library facility having 60 systems open for students and staff. It has collection of open source material. All International journals can be browsed using digital library. Bar code is followed for issue of books and its availability. Internet connectivity is available in every lab, faculty room, library and all other prominent locations. All the laboratories of the departments have modern equipment meeting the academic syllabus and also research needs.

Research and Development

The Institute encourages the faculty members to publish research papers in well reputed journals. The Institute gives cash reward of 10000/- to faculty who publish papers in well reputed journals like SCI, Scopus Indexed, Web of Science, etc. Publication and presentation of technical papers at Conferences are encouraged by providing deputation and support towards travel and registration The institute also encourages faculty to attend seminars, conferences, FDPs and Workshops

Examination and Evaluation

• Being an Autonomous college Paper setting, valuation and selection of internal and external experts are done by the college Examination committee. Paper setters and examiners are selected from Universities and Other Autonomous colleges for better quality of examinations and evaluation. To bring in confidentiality minimum four sets of question papers are kept ready for each subject and the one for the day is selected randomly just before examination. • Spot valuation is done at the college involving outside

experts only. Once the tests are finalized, the marks of the student are uploaded in database with Bee's software. • Security features are embedded on award documents like consolidated Mark Sheet and Provisional Certificate. The institute has changed student evaluation system from percentages to grading system.

Teaching and Learning

All the class rooms have LCD and OHP projectors, IEEE and other international journals are subscribed by the Library. Open source learning resources are available. Digital Library gives facility for the staff and students to update their knowledge. Tutorials for each subject are part of curriculum. Students are encouraged to prepare technical papers on advance topics for publishing in workshops/seminars. The emphasis has shifted to the practice of outcome based education(OBE) by every faculty across the institution as the institution has set its goal to get accreditation by NBA

Curriculum Development

As per the UGC guidelines we have introduced CBCS for all UG PG Course Structure. Every department has formed 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. To compete with the Industry, Curriculum is changed once in two years considering updates in technology and requirements of the industries. The Institute encourages the faculty to contribute to enrich the curriculum during course of its revision. After the completion of BOS, the recommendations are forwarded to the Academic Council for its approval.

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

E-governance area	Details
<p>Planning and Development</p>	<p>E governance in various planning and development levels of the Institution is in place through the scheduling , conduct and maintenance of minutes of meetings and resolutions made out of Governing Council , Academic Council, Finance committee meetings for the policy making, approvals etc. Translation of these policies into</p>

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

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

1. Student Portal (Student Corner) developed it has all the information about the student.
2. Students online attendance
3. Online student feedback on faculty, facilities and TLP.
4. Online Student Assessment
5. Online submission of assignments, Instructional Materials, videos through Byndr.
7. NPTEL Videos for content delivery and certification
8. Implemented online CBCS semester information system for all the Courses.
9. Online degree verification through college portal for employers

Examination

Improvise the Examinations Portal for Course registration, Exam

Registration, Internal and External marks entry and verification, Results and credit register display etc. Entry of student Marks online both Internal and External Examinations Student course registration for both core and electives (Professional and Open). Providing service facility for Competitive Exams including Government and Private sector. Objective assessment exams conducted online. 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
2020	K.Harshada	Effects of soil structure interaction on structures against static and dynamic loading	Gudlavalleru Engineering College	1000
2019	K.Vamsi Krishna	NAACs New framework on Accreditation and Assessment	G.Narayanamma Institute of Technology Science	1000
2020	G. Venkatesh	Geotectnical practices challenges	CVR College of Engineering	1000
2019	Dr. J. Selwyn Babu	Body Language: Key to Professional Success	IIT, Kharagpur	1100
2019	Dr. C. M. Vivek Vardhan	Outcome based Teaching,	JNTUH	2000

		Learning Assessment Strategies (3 Day national workshop)		
2019	Dr. P.Saritha	Remote Sensing GIS	IIT, Kharagpur	1100
2020	Dr. N. Rajeswaran	Accreditation and Outcome based Learning	GNITS	1000
2019	Mr. Ch. Narendra Kumar	VHDL Programming and Implementation in FPGA	NITTR, Chennai	2000
2019	Dr. Kanaparthi Rajender Prasad	"Machine Learning Deep Learning Techniques on Information Retrieval" with Hands on PYTHON	EDUX LABS	2000
2019	Dr. S.MadhuBabu	"Real Time Signal and Image Processing using DSP Processor"	Vardhaman College Of Engineering (VCE), Shamshabad, Hyderabad	1000
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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)
2019	FDP on "Recent Advances in Structural Engineering	Nil	02/07/2019	07/07/2019	30	Nil
2019	Work Shop on Recent Advances in Civil Engineering	Nil	18/10/2019	18/10/2019	100	Nil
2019	Nil	Total Station application	26/12/2019	26/12/2019	Nil	30

		and tools				
2019	LabVIEW for Measurement and Data Analysis	Nil	02/12/2019	07/12/2019	45	Nil
2019	Recent Advances in power Electronics , Smart Grid, Electric Vehicles and Renewable Energy	Nil	01/07/2019	05/07/2019	37	Nil
2019	Nil	TRAINING ON LATHE	02/12/2019	03/12/2019	Nil	15
2020	Nil	Electrical lab installations	03/03/2020	03/03/2020	Nil	24
2020	Financial markets	Nil	07/02/2020	07/02/2020	100	Nil
2020	Corporate opportunities and challenges	Nil	06/03/2020	06/03/2020	90	Nil
2020	Fundamentals and Applications of Arc-GIS Q-GIS	Nil	03/02/2020	08/02/2020	135	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
Non-Destructive Testing on Civil Engineering Structures	21	15/07/2019	19/07/2019	5
Effects of soil structure interaction on structures	1	03/02/2020	08/02/2020	6

against static and dynamic loading				
UGC sponsored short term course	1	16/09/2019	21/09/2019	6
FDP on Recent Advances in Structural Engineering	3	10/11/2019	15/11/2019	6
Disruptive techniques in mechnaical engineering	14	08/06/2020	13/06/2020	6
ONLINE TEACHING PRACTISES	1	10/05/2020	15/05/2020	6
One week FDP on Online Teaching Practices Etiquette and Best practices	1	10/05/2020	15/05/2020	6
"Advance Analysis of Wireless Communication and Soft Computing"	3	27/01/2020	01/02/2020	6
Two week FDP on Sensor Networks and IoTs	1	20/08/2019	29/08/2019	10
Linux foundation and Implementation of Data structures	1	11/05/2020	16/05/2020	6

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
83	83	12	12

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Medical Insurance, Provident Fund, Subsidized Transportation and Free Transportation during beyond working	Medical Insurance, Provident Fund, Free Transportation, Subsidized Canteen Facilities, Loan facility	Subsidized Transportation and Free Transportation during beyond working hours, Canteen Service with

hours, Subsidized Canteen Facilities, Loan facility, Honorarium for published paper /Patent/Book chapter.

subsidized Rates, Health Centre, Participating in Events outside college, Annual Prize Distribution (Culture /Sports), Student Association Council (SAC), Anti-ragging Cell, Central Placement Cell, Soft Skills Programme, Career Guidance Scheme, 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)

The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes a provision for advance/additional funds. The Governing Body approves the annual expenditure, scrutinizes the balance sheet and provides feedback for further optimal use of financial resource. Financial audit is regularly done in the institute in two forms- Internal audit and External audit. . Internal audit is done by the faculty of the institute. A committee is formed by IQAC 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. External audit is done by a certified auditor every financial year to verify the compliance with established financial processes. 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. The institute regularly follows Internal, external financial audit system and acts accordingly

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 Eucational Society	1277000	Faculty Achievements
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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	JNTUH, 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) At the time of admission, orientation programme is conducted in which all the parents are invited and it is an open forum for any suggestions (2) Every year a meeting between Parent and Teacher would be held twice which facilitates discussion of student progress like academic progress and performance in examinations, etc. (3) In connection with problems of their wards like shortage of attendance, scoring lesser marks, weak at studies etc. Heads of the departments communicate to the parents so as to improve performance.

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

(1) Principles of communication using MATLAB/SIMULINK (2) Training on LATHE, Hardness Machine and Grinding Machine (3) Electrical lab installations (4) Total Station application and tools (5) Workshop on Hardware Networking

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

(1) New Programs Artificial Intelligence and Machine Learning (AIML), Internet of Things (IoT), Cyber Security (CS) and Data Science (DS) in CSE introduced for the academic year 2020-2021. (2) Applied proposals in RD for RPS, STTP and MODROBs (3) RD activities has been improved.

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
2019	14th Graduation, Placement and Alumni day	13/07/2019	13/07/2019	13/07/2019	961
2019	Student Association Council (SAC) Inaguration	15/07/2019	15/07/2019	15/07/2019	126
2019	VISHESH 2019	14/09/2019	14/09/2019	14/09/2019	346
2019	Orientation Day	10/10/2019	10/10/2019	10/10/2019	1223
2019	Karthika V anabhojanalu	24/11/2019	24/11/2019	24/11/2019	127
2020	Sankranthi Celebrations	11/01/2020	11/01/2020	11/01/2020	236
2020	Robotics and its Applications	22/01/2020	22/01/2020	25/01/2020	653

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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	03/10/2019	03/10/2019	150	Nil
Karthika Vana bhojanaalu	24/11/2019	24/11/2019	175	250
Kill cancer awareness programme	18/12/2019	18/12/2019	300	Nil
Sankranthi samburalu - Local harvest festival	11/01/2020	11/01/2020	250	670
Beti bachao beti padaao campaign	24/01/2020	24/01/2020	400	Nil
International Women's day	07/03/2020	07/03/2020	800	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

The institute plans to roll out the conventional bulbs and tube lights and replace them with Power efficient LED bulbs, in a phased manner. So far 885 LED bulbs have been erected. These LED bulbs on average consume about 0.2 units of Power per month. While the ordinary bulbs and tube lights used to consume about 0.35 units of Power per month. Therefore it is clear that about 0.15 units of Power on an average is saved per LED bulb per month. The following calculations give us the amount of Power saved due to the installation of LED bulbs. Average Power consumed by each LED bulb per month 0.2 unit Average Power consumed by 885 LED bulbs per month 885×0.2 177 units Average Power consumed by 885 LED bulbs in a calendar year 177×12 2124 units Average Power consumption reduced per LED bulb per month 0.15 unit Average Power consumption reduced per 885 LED bulbs per month 885×0.15 132.75 units Average Power consumption reduced per 885 LED bulbs in a calendar year 132.75×12 1593 units The reduction of Power consumption by as much as 1593 units motivates us for increasing the pace at which LED bulbs are installed all across the campus.

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	5

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
2019	2	14	01/08/2019	15	Celebration Of Indian Constitution Day	To motivate students towards increasing green cover	150

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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 the students	29/06/2020	Human values and Professional Ethics are taught to the students in different courses across the programme. They are taught in the form of tasks in English language laboratory. Also they are discussed in subjects like Environmental sciences and Gender sensitization.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness Campaign Of Jal Shakthi Abhiyan	29/07/2019	29/07/2019	80
Massive Bucket Immersion	04/09/2019	04/09/2019	800
Say No To Plastic Workshop	20/02/2020	20/02/2020	75
One day workshop on POCSO Act and child sexual abuse	07/03/2020	07/03/2020	80
World Environment Day	05/06/2020	05/06/2020	75
International day of yoga	20/06/2020	20/06/2020	60

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

Use of LED bulbs Moving towards paperless communication system No plastic usage Tree plantation Refilling toner cartridges

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

CRT Training Objectives of the practice:

- To persuade the students to possess a sound technical knowledge in the area of study
- To enhance the programming skills of students
- To train the students in time-bound answering of aptitude tests
- To help students excel in language and communication skills
- To prepare the students for different levels of selection process such as group discussions and one-to-one interviews
- To help boost the students' confidence level through soft skills training
- To inculcate the importance of projecting a smart appearance
- To groom the students to the corporate level
- To ensure that all eligible students are employed by the end of the final year of study

The Context: The Country, particularly Telangana has witnessed a massive inclination towards Engineering Education in the past years and the trend has not let off. Some of the main factors behind this choice is the job prospects the IT and other business industries have been able to deliver to fresh students with attractive pay packets. With more than 150 colleges of government and private engineering and considered to be universities offering professional education, if an institution needs to find a place of reputation, it has to be different and it has to be elite in terms of academics and in terms of training it offers to enable students to graduate with a job offer in hand successfully.

If not, the institutions very existence is placed under doubt mark. In this context, it has become imperative for a prestigious organization such as ours to ensure that its primary stakeholders are satiated to their standards at the highest possible stage. Our management, not new to this level of success, has concentrated from the first batch of students onwards on training the students for campus placement. A placement with an experienced Placement Officer in charge has been identified within a short period. Since then the colleges placement process has made a leap towards successful student placement. The Practice: The recruitment of the campus is within the remit of the placement officer. A team of Placement Coordinators selected from each department-one staff member and two student representatives-support the placement officer. This team plans and coordinates the placement training related activities.

Students are offered the option to apply for campus placement at the end of the third year, while the other options are advancement to higher studies / becoming an entrepreneur. The students choice is endorsed in writing by the parent/ guardian. It preference fast lines the student into his. The potential.

The Rigorous placement preparation is given only to those who have chosen for campus recruitment. This is worth noting that all students attend the same training courses, irrespective of the choices they may select, before the third year. Such an approach to the training programs ensures that all students are to some extent whipped into employability. The time table incorporates the periods allotted for accommodating these sessions- 4.05 to 5.30 P.M. Evidence

of Success: All the efforts of the college bear fruits and the college has registers a note-worthy placement record. The number of offers obtained by the students in this year is closer to 1000. Problems Encountered and Resources

Required: ? Number-wise top recruiting companies that come for campus selection demand for Day 1 and this demand is very difficult to meet ? Companies that offer dream packages claim priority over other companies - zero day - for campus recruitment ? Although certain companies are willing to offer week-end internships spreading over two or three months , due to tight academic

schedule, financial constraint on the part of the students, unviable commuting distance etc., students are not able to utilize such opportunities Personnel with expertise in aptitude tests and in developing soft skills can permanently be employed for continuous training of the students

PROJECT BASED LEARNING Objective

- To impart education to future engineers with hands on approach to carve engineers who can deliver,
- Design the engineering programs to reflect this change in the pedagogy.
- Design the projects which are relevant to the

industry in the present time and keeps pace with the rapid rate of development.

- Build in students, a capability to self directed learning by subjecting student to search at rates required of him, to successfully complete the project.
- To coax students to bring out innovation in them in finding a solution which was not there previously or employ their cross cutting skills in selecting solutions from other areas or other engineering disciplines. The Practice
- The students in their first year, a 2 hour/week, course of PBL was introduced from the year 2018-19.
- Fundamentals of research methodology was introduced and the practice of chasing for the solution is taught, to brush up all the fundamentals of that concept and update to latest frontiers of knowledge, through studying the previous search.
- Student is given the ability to pick problems that still lying unanswered or where the solution can be obtained with less effort or improvement of accuracy of the solution etc, some significant progress.
- In its experience, Malla Reddy Engineering College had found out that research in education and its methodology had demonstrated its effectiveness in pedagogy too. It appears the method of using the conventional black board and the chalk is still lingering and is about to become extinct.
- While answering a complex problem our students work on a projects in stages some times the project is divided into smaller bits which improve their communication and comprehension skills.
- Our students some time continue the search of solution which opportunity they get when they reach 3rd year where they are given opportunity to continue the same problem they have studied so that they will have head start. By the end of 3rd year they usually come with complete solution. They are provided to proceed to relevant industry to try to practice the solution they have in their mind.
- Students of 3rd year are evaluated based on their ability to find solution and also based on the novelty of the idea developed.
- Rare problems, which require more time or more time to come up with complete solution, will be taken up to as major project in the 4th and final year. They will experiment in the field with the solution they had worked thus far and refine and try to bring it to a completeness.
- The ideas that are worthy will be brought to the knowledge of the industry to develop commercial benefit to the college, simultaneously proceeding with formalities for developing into a patented intellectual property. Uniqueness:
- The selection of projects are generally industry needs, which are identified through Industry institution interaction cell of the college.
- After certain maturity of the solution, it will be tried to be converted into some consultancy project so that industry orientation is ensured.
- Effort will be made to convert successful projects into Intellectual property rights are protected and patented in time.
- The projects in which there was failure, nevertheless improve the understanding of the subject and through interaction the entire student community learns. Constraints:
- The education system has its limitations in amounts of time the students can put on the project because at the undergraduate level focus is on preparing an engineer who has compressive all round knowledge.
- When sponsorship is not obtained there will lot of difficulty in proceeding with the project. Evidence of Success:
- The first benefit received that Engineering graduates are more focussed on the subject and they have improved their ability to search the solutions and when they solution in a particular field and when they see problems in industry it is prompting the students to apply the existing solution from other spheres into their own domain.
- The performance of the students has improved to great extent as they are now no more bored. Problems Encountered and Resources required:
- As already mentioned above, some of the projects could not be worked because of paucity of time as students should cope with the burden of present education system.
- Lot of effort goes in contact with the industry leaders and again due to constrained in approaching them and constraint of money particularly when there are no sponsors, good project could not be taken up.

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%202019%20-%2020.pdf>

7.3 – Institutional Distinctiveness

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

The institute organised Mandatory induction programme recommended by AICTE for the first B. Tech. students. The students are exposed to various arts and crafts like paper art, clay art etc. Further personality development sessions are conducted during the induction programme. Renowned motivational speaker Mr. Gampa Nageswara Rao addressed the students on the issues related to personality development on July 26, 2018. Anti ragging and anti drug awareness programme is conducted on July 27, 2018 with the help of the police personnel from the local Pet basheerabad police station. III B. Tech. students of Mining and Civil engineering department attended a 3 day orientation programme on GIS at Geological Survey of India Training Institute (GSITI), educated the students regarding GIS and remote sensing. The institute conducted Massive Bucket Immersion on Sep 4, 2019. A two day workshop on Recent trends in mining is conducted by the department of Mining from Sep 13 -14, 2019. Retired Deputy Director General, GSITI Dr. Hari Sarvotthaman, Senior Geologist Mr. Harish Mistri and HoD, Civil Engineering, NIT Suratkal Prof. Venkat Reddy are the resource persons for this programme. The national level students project expo Vishesh 2k19 conducted every year on the occasion of Engineers day is celebrated on Sep 14, 2019. Another batch of III B. Tech. students of Mining and Civil engineering department attended a 2 day orientation programme on GIS at Geological Survey of India Training Institute (GSITI), Hyderabad from Nov 7 - 8, 2019. As a part of the prestigious Bhuvni Samvad programme of Govt. of India, Senior Scientist, GSITI Dr. Nidhi Misra delivered a guest lecture on GIS for the benefit of Civil and Mining engineering students on Nov 16, 2019. Department of Mining engineering organised a 6 day FDP on Blasting in mines. Mr. Malay Tekedar, Deputy Director, Southern Mine Safety Department and Mr. Mohammad Niyazi, Assistant Director, Southern Mine Safety Department are among the resource persons for this FDP. Department of EEE and Department of CSE conducted two Short Term Training Programmes of 6 day duration from Dec 2 - 7, 2019. These two training programmes are sponsored by AICTE. Department of Mechanical engineering organised a two day workshop for the students in association with Garuda 3D from Dec 23 - 24, 2019. The theme of the workshop is 3D printing - the future of manufacturing technology. Mr. Selvakumaran, Founder Garuda 3D and Er. Mubarak Basha trained the students. Department of CSE organised a one week training programme on Cloud technologies in association with Google inc. from Jan 13 - 20, 2020. A 3 day workshop is conducted by department of H and S for the first year B. Tech. students of EEE, ECE, CSE and IT branches on Robotics from Jan 23 - 25, 2020. H and S department organised a 2 day workshop on Non Destructive Testing for I B. Tech. students of CE, ME and Mining branches from Jan 30 - 31, 2020. Mr. M. Harshavardhan Reddy a student of III B. Tech. CSE got selected

Provide the weblink of the institution

<http://www.mrec.ac.in/NAAC/Criterion7/ID%20AY%202019-20.pdf>

8.Future Plans of Actions for Next Academic Year

i. To achieve 100 Percent placement for all the eligible students The institute has registered a considerable progress with regard to securing placement offers for all its eligible students. There are many reasons for this achievement. A well thought out training programme called Campus Recruitment Training (C. R. T.)

is one of the significant contributing factors. The training programme covers the soft skills, technical skills, quantitative aptitude and the coding skills. The C. R. T. programme has been embedded into the regular timetable such that the students understand the importance of it and make the best use of it. Besides the C. R. T. classes, students were given hands on training on emerging technologies like LabVIEW, H. P. Devops, Salesforce, Amazon Web Services etc. These skill development trainings certainly enhanced the employability chances of the students. A careful analysis of the placement scenario disclosed a few gaps which on fixing can assure 100 placement for all the eligible students. The baby steps were laid in this direction in this academic year. A more refined approach will be adopted in the upcoming academic year so as to achieve the goal. One gap worth mentioning here is that not every engineering graduate is motivated to work in the software industry or specifically interested in coding related job offers. This is more so with the majority of the non - circuit branch students like Civil Engineering, Mechanical Engineering and Mining Engineering. A survey was conducted to identify students interested in placement but not in software companies. They were given C. R. T. and permitted to appear for placement drives in the core companies like Varun Motors, RDC concrete etc. This strategy worked out well and increased the percentage of placements. By refining this strategy further, the institute plans to achieve 100 placement for all the eligible students. ii. To automate all the academic and administrative procedures related to both staff and students. Students and their parents can check the examination result online in the existing system. In fact parents receive SMS alerts within 5 seconds of announcing the semester examination results. The existing system supports payment of examination fee online. The existing system supports the administration staff to prepare the bonafide certificate, study certificate and transfer certificate of the students with little effort. The institute plans to upgrade the existing system to support the faculty in taking online attendance, to handle mentor - mentee task, to apply for leave and make the necessary class adjustments online, to sanction the leave online etc. Also the institute plans to upgrade the existing system to support the students to apply for all the necessary certificates online like study certificate, transfer certificate, transcripts etc.