# Yearly Status Report - 2016-2017

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

## 2. Institutional Status

| | |
|---|---|
| Autonomous Status (Provide date of Conformant of Autonomous Status) | **20-Jan-2014** |
| Type of Institution | **Co-education** |
| Location | **Urban** |
| Financial Status | **private** |
| 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%20AY%202015-16.pdf |

## 4. Whether Academic Calendar prepared during the year

| | |
|---|---|
| **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

| | |
|---|---|
| **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 | | |
|------|------|------|
| Techno Cultural Fest – AKSHARA 2K17 | 07-Apr-2017 2 | 2313 |
| National Science Day 2017 | 10-Mar-2017 1 | 231 |
| Engineer's Day – VISHESH 2K16 | 15-Sep-2016 1 | 1672 |
| A Three Day Pedagogy Training Programme on Sahrpening Teaching Competence | 21-Jul-2016 3 | 45 |
| Anti Ragging Awareness Programme | 06-Sep-2016 1 | 1156 |
| Tech Mahindra Placement Success meet | 28-Jul-2016 1 | 342 |
| [View File](#) | | |

**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 |
| Institution | TEQIP II | World Bank | 2011 2190 | 5600000 |
| [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 :** | 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)** | |

Supported ecofriendly measures like Harithahaaram Skill development training programmes Monitoring the accreditation activities e journal subscription by library for easy access of the research papers publication of research journal in Scopus/Web of Science and SCI Journals

[View File](#)

## 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 |
|---|---|
| Applying for renewal of accreditation by NBA for the Undergraduate programmes of CE, EEE, ME, ECE and CSE | Compliance report in the prescribed format with all the relevant supporting documents is submitted. |
| Organizing National conference by the departments of EEE, ECE and CSE | National level conference is conducted by the three departments EEE, ECE and CSE on 12 Nov 2016. These conferences are titled National Conference on Recent Innovations in Electrical Engineering (NCRIEE 2016), National Conference on Communications, Signal Processing and VLSI (NCCSPVLSI 2016) and National Conference on Computational Intelligence, Computing & Networks. (NCCICN - 2016). Prominent academicians were invited for the conference as Chairs. There is a laudable response from the faculty members, research scholars and PG students. |
| Curriculum design for MR17 regulations | Academic regulations and curriculum for MR17 regulations were framed with the help of numerous pre BoS meetings. The curriculums prepared by various departments are approved in their respective BoS. Further the academic regulations and curriculums are ratified by Academic council and BoG. |
| JNTUH affiliation for the academic year 2017 18 | Documents necessary for the affiliation are submitted to the affiliating University, Jawaharlal Nehru Technological University, Hyderabad (JNTUH) |
| [View File](#) ||

## 14. Whether AQAR was placed before statutory body ?

Yes

| Name of Statutory Body | Meeting Date |
|---|---|
| Board of Governance | 15-Oct-2016 |

| | |
|---|---|
| **15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?** | **Yes** |
| Date of Visit | **24-Jun-2016** |
| **16. Whether institutional data submitted to AISHE:** | **Yes** |
| Year of Submission | **2017** |
| Date of Submission | **20-Feb-2017** |
| **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) | **1. SMS gateway to send important notifications to different stake holders. 2. Installation of CCTVs at various parts of the college. Management Information system is available in the college. It is used for the following Institutional activities. 1.SMS gateway to send important notifications to different stake holders. 2. Installation of CCTVs at various parts of the college. 3. Communicating important information to the stakeholders through website and conventional methods. 4.Upgradation of college website with special emphasis on MIS. 5.Paying examination fee through online portal. 6. Anytime Learning system in the Library using online portal. Malla Reddy Engineering College has an informative website (mrec.ac.in). It aims at providing information to all stakeholders of the college. It has many modules like Academics, Departments, Research, Infrastructure, Examinations, Placements, IQAC. The Academics module provides information about various programmes offered, admission process and syllabus of each course. The Departments module displays the complete profile of each department like Vision, Mission, Faculty details, Infrastructure Details of department, Events Organized etc. Research module provides information about all the research activities being conducted in the college. Infrastructure module provides information about the** |

sophisticated infrastructure facilities available at the college premises like library, hostels, various laboratories, transport facilities etc. Examinations module provides complete information for the students regarding exams like time tables, examination circulars, study materials etc. It also allows the students to check their results. Placements module aims at providing the detailed report of placement activities happening in the college. The Internal Quality Assurance Cell (IQAC) module provides information about all the academic activities conducted to enhance quality in academics. Apart from these primary modules the website 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 | 22/07/2016 |
| BTech | 02 | Electrical and Electronics Engineering | 25/07/2016 |
| BTech | 03 | Mechanical Engineering | 20/07/2016 |
| BTech | 04 | Computer Science and Engineering | 27/07/2016 |
| BTech | 05 | Computer Science and Engineering | 25/07/2016 |
| MBA | 1E | Master of Business Administration | 13/07/2016 |
| Mtech | 07 | Electrical Power Systems | 25/07/2016 |
| View File | | | |

## 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 (50B01) | 22/07/2016 |
| BTech | Nill | Nill | Computer Programming (50501) | 22/07/2016 |
| BTech | Nill | Nill | Engineering Graphics (50301) | 22/07/2016 |
| BTech | Nill | Nill | Engineering Workshop (50302) | 22/07/2016 |
| BTech | Nill | Nill | Engineering Mechanics (50303) | 22/07/2016 |
| BTech | Nill | Nill | Entrepreneurship Skills (50B04) | 22/07/2016 |
| View File | | | | |

## 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|---|---|---|
| Nill | NIL | Nill |
| View File | | |

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 | 22/07/2016 |
| BTech | Electrical & Electronics Engineering | 25/07/2016 |
| BTech | Mechanical Engineering | 20/07/2016 |
| BTech | Electronics & Communication Engineering | 27/07/2016 |
| BTech | Computer Science and Engineering | 25/07/2016 |
| Mtech | Structural Engineering | 22/07/2016 |
| Mtech | Electrical Power Systems | 25/07/2016 |
| Mtech | Machine Design | 20/07/2016 |
| Mtech | Thermal Engineering | 20/07/2016 |
| Mtech | Computer Science and | 25/07/2016 |

| | Engineering | |
| --- | --- | --- |
| MBA | Management of Business Administration | 13/07/2016 |

## 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 | 22/10/2016 | 99 |
| Data Structures and Analysis of Algorithms | 22/08/2016 | 248 |
| Electronic Circuit Analysis amp Design via Software | 12/12/2016 | 112 |
| Network Security | 06/02/2017 | 242 |
| SOFT SKILLS TRAINING | 19/12/2016 | 50 |
| Computational Method lab | 30/09/2016 | 17 |
| Stability Analysis/ Control Systems | 02/01/2017 | 30 |
| ADVANCED CONCRETE LAB | 30/09/2016 | 24 |
| View File | | |

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 | 152 |
| BTech | Electrical and Electronics Engineering | 86 |
| BTech | Electronics and Communication | 204 |
| BTech | Mechanical Engineering | 360 |
| BTech | Computer Science Engineering | 447 |
| BTech | Information Technology | 41 |
| BTech | Mining Engineering | 35 |
| MBA | Master of Business Administration | 98 |
| Mtech | Structural Engineering | 4 |
| Mtech | Machine Design | 6 |
| View File | | |

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| Students | Yes |
| --- | --- |
| Teachers | Yes |
| Employers | Yes |

| Alumni | Yes |
|---|---|
| Parents | Yes |

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

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

## 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 |
|---|---|---|---|---|
| MBA | Master of Business Administration | 120 | Nill | 120 |
| Mtech | Machine Design | 24 | Nill | 17 |
| Mtech | Thermal Engineering | 24 | Nill | 19 |
| Mtech | Electrical Power systems | 24 | Nill | 18 |
| Mtech | Structural Engineering | 18 | Nill | 12 |
| BTech | Computer Science Engineering | 240 | Nill | 240 |

| BTech | Electronics and Communication Engineering | 180 | Nill | 180 |
| BTech | Mechanical Engineering | 240 | Nill | 240 |
| BTech | Electrical and Electronics Engineering | 60 | Nill | 60 |
| BTech | Civil Engineering | 180 | Nill | 180 |
| View File | | | | |

## 2.2 – Catering to Student Diversity

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

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
| --- | --- | --- | --- | --- | --- |
| 2016 | 3963 | 922 | 290 | 31 | 10 |

## 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 |
| --- | --- | --- | --- | --- | --- |
| 331 | 331 | 193 | 92 | 92 | 43304 |
| View File of ICT Tools and resources | | | | | |
| View File of E-resources and techniques used | | | | | |

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

There are mentors responsible for divisions and mentors who oversee student clubs. There is a mentor for every 15 to 20 students who is responsible for the students. The mentors have access to the student profile and contact information. Goodly qualified teachers are made accountable and know the history of the students. The mentors usually provide encouragement, inspiration and advice. If the student wants extra support that goes beyond the mentors ability, he or she directs the students into the right individual. In terms of learning difficulties, mentors help considerably to recognise diversity. They give the students with problems first hand support and provide the teaching staff the necessary feedback to allow them to handle these students more effectively. Contact details of the class mentor are conveyed to the parents / guardians. The tutor also has the parents / guardians contact information. The mentors also provide additional career advice support. Almost often if students complete and study higher, they ask the mentors for references. A lot of mentors encourage students, particularly when students have a shared interest in academic work or projects. This benefits students tremendously in giving them a lead over their rivals elsewhere, although less often. These mentors also direct these students through their ventures and initiatives internships. This is of immense benefit to the students involved. Student club managers typically work with students who have shared curriculum or non-curricular interests. Usually, these mentors are professionals in an area and knowledgeable about their clubs domains. Students who are part of these clubs succeed and flourish in these areas because their enthusiasm is infectious. Every mentor has direct access to the head. The mentors are encouraged to immediately report any problems and obtain the appropriate support. Mentors also keep track of advancement of students. The College Mentorship programme has many lifetime ties between teachers and students. These teachers play the role and

serve as role models for a caring adult. The importance of the role played by these teachers, well beyond what they regularly do as teachers, cannot be overestimated particularly in the context of students from breakdown or conflict families.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| :---: | :---: | :---: |
| 4885 | 331 | 1:15 |

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
| :---: | :---: | :---: | :---: | :---: |
| 129 | 129 | Nill | 129 | 49 |

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 |
| :---: | :---: | :---: | :---: |
| 2016 | Dr. V. Dhanunjana Chari | Professor | Certificate of Outstanding contribution in Reviewing, JNGSE, Elsevier |
| 2016 | Balanji Reddy Mora | Assistant Professor | Water Conservator award |
| | | View File | |

## 2.5 – Evaluation Process and Reforms

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

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
| :---: | :---: | :---: | :---: | :---: |
| BTech | 04 | II/I | 19/12/2016 | 17/01/2017 |
| BTech | 03 | II/I | 19/12/2016 | 17/01/2017 |
| BTech | 02 | II/I | 19/12/2016 | 17/01/2017 |
| BTech | 01 | II/I | 19/12/2016 | 17/01/2017 |
| BTech | 25 | I/I | 15/12/2016 | 17/01/2017 |
| BTech | 05 | I/I | 15/12/2016 | 17/01/2017 |
| BTech | 04 | I/I | 15/12/2016 | 17/01/2017 |
| BTech | 03 | I/I | 15/12/2016 | 17/01/2017 |
| BTech | 02 | I/I | 15/12/2016 | 17/01/2017 |
| BTech | 01 | I/I | 15/12/2016 | 17/01/2017 |
| | | View File | | |

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 |
|---|---|---|
| 540 | 9770 | 5.53 |

**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)

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 |
|---|---|---|---|---|---|
| 07 | Mtech | Electrical Power Systems | 13 | 10 | 76.92 |
| 20 | Mtech | Structural Engineering | 14 | 10 | 71.42 |
| 25 | BTech | Mining Engineering | 52 | 40 | 76.92 |
| 05 | BTech | Computer Science Engineering | 210 | 197 | 93.81 |
| 04 | BTech | Electronics and Communication Engineering | 201 | 183 | 91 |
| 03 | BTech | Mechanical Engineering | 198 | 195 | 98.48 |
| 02 | BTech | Electrical and Electronics Engineering | 131 | 118 | 90 |
| 01 | BTech | Civil Engineering | 138 | 127 | 92. |
| View File | | | | | |

**2.7 – Student Satisfaction Survey**

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

## 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. R. Prasanna Kumar |
| --- |

[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 |

[View File](#)

## 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) | 0 | 0 | 0 | 0 |

[View File](#)

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

| 0 |
| --- |

## 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 Promoting Active Cooperative Learning in Class Room | Civil Engineering | 27/08/2016 |
| FDP on Geotechnical Laboratory Latest Equipments and their Applications | Civil Engineering | 22/08/2016 |
| FDP on "Innovation foundation design using STAAD Pro" | Civil Engineering | 24/07/2016 |
| Seminar on Enterpreneurship | Civil Engineering | 12/02/2017 |
| Managing Innovation and Intellectual Property Rights- IP Formulate | Electrical and Electronics Engineering | 12/08/2016 |
| seminar on Intellectual Property Rights Innovations | Electrical and Electronics Engineering | 14/10/2016 |

| | | |
|---|---|---|
| Two Day Workshop on " Make Objects, Gadgets and ROBOTSs" | Electronics and Communication Engineering | 30/07/2016 |
| One Week Workshop on "Embedded System Design" | Electronics and Communication Engineering | 13/02/2017 |
| workshop on Internet of Things | Computer Science and Engineering | 23/08/2016 |
| workshop on Web security | Computer Science and Engineering | 13/09/2016 |
| Blast Prediction Optimization | Mining Engineering | 25/09/2016 |
| View File | | |

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 |
|---|---|---|---|---|
| BOT SHOT | B V N S Vivek | BITS Pilani Hyderabad Campus | 16/10/2016 | Technical Event |
| Galactic Trooper | Prabhat Kumar Patra | IIT Bombay | 18/12/2016 | Technical Event |
| Arm Rover | P. Eshwar | NIT Warangal | 23/10/2016 | Technical Event |
| Yodha | Joshna | Marri Laxman Reddy Institute of Technology and Management | 28/03/2017 | Technical Event |
| View File | | | | |

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation Center | Name | Sponsered By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|---|---|---|---|---|---|
| NIL | NIL | NIL | NIL | NIL | Nill |
| View File | | | | | |

## 3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---|---|
| Electrical and Electronics Engineering | 1 |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---|---|---|---|
| International | Civil Engineering | 47 | 1 |
| International | Electrical and Electronics Engineering | 77 | 1 |
| International | Electronics and Communication | 67 | 1 |

| | | | |
|---|---|---|---|
| | Engineering | | |
| International | Computer Science Engineering | 59 | 1 |
| International | Mechanical Engineering | 45 | 1 |
| International | Humanities and Sciences | 25 | 1 |
| International | Master of Business Administration | 53 | 1 |
| International | INFORMATION TECHNOLOGY | 11 | 1 |
| International | MINING | 13 | 1 |
| | View File | | |

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 |
|---|---|
| Humanities Sciences | 2 |
| Computer Science Engineering | 24 |
| Electronics and Communication Engineering | 26 |
| Electrical and Electronics Engineering | 28 |
| Civil Engineering | 24 |
| View File | |

3.4.4 – Patents published/awarded during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---|---|---|
| NIL | Nill | 0 | Nill |
| View File | | | |

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 |
|---|---|---|---|---|---|---|
| Selective hydrotherm ally synthesis of hexagonal WS2 platelets and their photocatal ytic perfo | Veerendra Chitturi | Superlat tices and Microstruc tures | 2016 | 31 | Department of Mechanical Engineerin g, Malla Reddy Engi neering College, Hyderabad, Telangana, 500014, | 31 |

| rmance under visible light irra diation | | | | | India | |
| --- | --- | --- | --- | --- | --- | --- |

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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 |
| --- | --- | --- | --- | --- | --- | --- |
| Selective hydrotherm ally synthesis of hexagonal WS2 platelets and their photocatal ytic perfo rmance under visible light irra diation | Veerendra Chitturi | Superlat tices and Microstruc tures | 2016 | 4 | 31 | Department of Mechanical Engineerin g, Malla Reddy Engi neering College, Hyderabad, Telangana, 500014, 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/Semi nars/Workshops | 1 | 16 | 14 | 131 |
| Presented papers | 1 | 11 | 1 | 100 |
| Resource persons | Nill | Nill | 1 | 12 |

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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 | Concrete Mix design | VMV Consultancy | 50000 |
| Civil Engineering | Safe bearing capacity of Soil | KNR Constructions Ltd | 60000 |
| Electrical Electronics Engineering | Industry Electrical safety | Hetro Labs | 160000 |

| Mining Engineering | Geological Survey | SS Geological Consultancy | 155000 |
|---|---|---|---|
| Master of Business Administration | Premium Motors Pvt. Ltd | Customer satisfaction survey | 10000 |
| Electronics Communications Engineering | Finger print based voting machine | SAK informatics Pvt Ltd | 88300 |
| [View File](#) | | | |

### 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 |
|---|---|---|---|---|
| Nil | Nil | Nil | 0 | 0 |
| [View File](#) | | | | |

## 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 |
|---|---|---|---|
| National youth meet on safe water for future | Lee Shreyus Foundation | 15 | 850 |
| National youth day celebrations | Samskruthi Foundation | 20 | 1000 |
| Awareness campain on cash less transactions | NSS | 5 | 55 |
| Anti drug awareness campaign | Cyberabad Police | 15 | 800 |
| International students day (Birth anniversary of Dr. A.P.J. Abdul Kalam) | NSS | 1 | 50 |
| Bathukamma celebrations | NSS | 35 | 900 |
| Teachers day celebration | NSS | 15 | 300 |
| Anti ragging awareness campaign | Petbasheerbad Police | 35 | 850 |
| Clay Ganesha- Bucket immersion campaign | Lee Shreyus Foundation | 35 | 1000 |
| [View File](#) | | | |

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

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|---|---|---|---|
| Nil | Nil | Nil | Nill |

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 activites | Number of students participated in such activites |
|---|---|---|---|---|
| Water Conservation | Lee Shreyas Foundation | National youth meet on safe water for future | 15 | 850 |
| Digital Transactions | NSS | Awareness campain on cash less transactions | 5 | 55 |
| Anti-Drug Awareness | Cyberabad Police | Anti drug awareness campaign | 15 | 800 |
| Anti-Ragging Awareness | Petbasheerbad Police | Anti ragging awareness campaign | 35 | 850 |
| Environment Conservation | Lee Shreyus Foundation | Clay Ganesha- Bucket immersion campaign | 35 | 1000 |
| Haritha Haram | NSS | Haritha Haram | 7 | 60 |
| International Yoga Day | NSS | International Yoga Day | 3 | 350 |

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 |
|---|---|---|---|
| PhD Research | Mr. A. Saravan Bhavan | Nagarjuna University | 60 |
| PhD Research | Ms. S C Sireesha | Nagarjuna University | 60 |
| Research | Dr P Saritha & Dr D Bhagavan | Centre for Environment, IST, JNTUH | 150 |

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 | Duration From | Duration To | Participant |
|---|---|---|---|---|---|

| | | /research lab with contact details | | | |
|---|---|---|---|---|---|
| Workshop | One Week Workshop on "Embedded System Design" | PGP Electronics Pvt. Ltd. | 13/02/2017 | 17/02/2017 | 200 |
| Workshop | One Week Workshop on "Electronic Circuit Analysis Design via Software" | Trident Tech labs | 12/12/2016 | 16/12/2016 | 50 |
| | | | [View File](#) | | |

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

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|---|---|---|
| Netar Software services Pvt Limited | 18/10/2016 | To recognize RD in Mobile Development areas To excel man power in software development. | 40 |
| EE Engineering Construction Services | 04/11/2016 | Training Students on Quality Control | 45 |
| EPR Labs | 01/08/2016 | Workshop | 150 |
| Trident Tech labs | 23/02/2017 | Workshop | 50 |
| PGP Electronics Pvt. Ltd. | 01/07/2016 | Workshop | 50 |
| | [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 |
|---|---|
| 251.26 | 249.76 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---|---|
| Campus Area | Existing |
| Class rooms | Newly Added |
| Seminar Halls | Existing |
| Laboratories | Newly Added |
| Classrooms with LCD facilities | Newly Added |

| Seminar halls with ICT facilities | Existing |
|---|---|
| Video Centre | Existing |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Classrooms with Wi-Fi OR LAN | Newly Added |
| View File | |

## 4.2 – Library as a Learning Resource

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

| Name of the ILMS software | Nature of automation (fully or 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 | 52115 | 11802834 | 1697 | 239639 | 53812 | 12042473 |
| Reference Books | 2972 | 943205 | Nill | Nill | 2972 | 943205 |
| e-Books | 5144 | 176896 | 845 | 11500 | 5989 | 188396 |
| Journals | 623 | 1787238 | Nill | Nill | 623 | 1787238 |
| e-Journals | 14254 | 2459288 | Nill | Nill | 14254 | 2459288 |
| Digital Database | 2 | 222478 | Nill | Nill | 2 | 222478 |
| CD & Video | 22851 | 75600 | Nill | Nill | 22851 | 75600 |
| Others(specify) | 6 | 200000 | Nill | Nill | 6 | 200000 |
| 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 |
|---|---|---|---|
| Mr. S. Rammohan Reddy | Flexible Manufacturing System | LMS of MREC | 13/08/2016 |
| Dr. T. Ramachandran | Heat Excahngers | LMS of MREC | 04/10/2016 |
| Dr. R. Dharmalingam | Iron-Iron Carbide Diagram | LMS of MREC | 11/02/2017 |

| Dr.Yogesh Madaria | Turbulent Flow | LMS of MREC | 13/02/2017 |
| --- | --- | --- | --- |
| Dr G .Charles Babu | Methods of Testing | LMS of MREC | 02/08/2016 |
| Dr. RP Ram Kumar | CUDA Programming | LMS of MREC | 13/10/2016 |
| Dr. Ms. DhanaLaxmi | NFA and DFA | LMS of MREC | 07/07/2016 |
| Mr. K.V. Ragahvender | Transportation Layer | LMS of MREC | 13/10/2016 |
| Ms. Kavitha Reddy | Instructions Codes | LMS of MREC | 04/01/2017 |
| Mr. Pattlola Srinivas | Introduction to Data Structures | LMS of MREC | 20/01/2017 |
| [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 | 981 | 17 | 0 | 0 | 6 | 10 | 8 | 200 | 0 |
| Added | 200 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 |
| Total | 1181 | 19 | 0 | 0 | 8 | 11 | 8 | 200 | 0 |

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

| 200 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 |
| --- | --- |
| 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 |
| Study Material | http://mrec.ac.in/Examinations/ExaminationsStudyMaterials |
| Question Banks | http://mrec.ac.in/Examinations/ExaminationsQuestionBanks |
| Previous Year Question Papers | http://mrec.ac.in/Examinations/Examinat |

| Mrecacademics | http://mrecacademics.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 |
|---|---|---|---|
| 1823225 | 1759888 | 1243658 | 1173238 |

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

The institution has a permanent manager who is responsible for all facilities, whether it adds facilities or retention jobs. The buildings are periodically managed for renovation and repair. The houses, corridors and other areas are kept tidy and safe by the home keeping team. The washrooms are kept periodically by a team to keep them available. They are responsible for maintaining the laboratory equipment for its working conditions in departments controlled by their representatives. Prior to the start of the academic year the HODs will arrange for all their laboratories for repairs and maintenance for the academic year concerned. They classify the departments that will perform repairs and ready equipment before the start of each semester. An IT cell is operated by the institutions senior faculty member to supervise the purchase, repair and replacement of equipment including computers , printers, projectors and others around the institution in the field of information technology. The Institute shall budget for maintenance and use of campus infrastructure facilities under various headings. Adequate maintenance and repair funding was distributed by the Institute Planning Committee. Different supervisory committees such as the Purchasing Committee, the Maintenance and Repair Committee, the Sports Committee, the Library Committee, the Maintenance of the laboratory, Student Input Committee etc. are in charge of the funding allocation. To maintain and upkeep the infrastructure Institute facilities and equipments, following activities are undertaken by college:- • There is Stock Maintenance Committee in every department, who maintains the stock register by physically verifying the items round the year. • Department wise annual stock verification is done by concerned Head of the Department. • Regular maintenance of Computer Laboratory equipments is done by Laboratory Assistant along with Laboratory attendant and they are headed by Lab Maintenance Committee Convenor. • Overall development of campus is done by Campus Discipline and Cleanliness Committee of the college. • Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute Fourth Class Employees. • College campus maintenance is monitored through regular inspection. • Upkeep all facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel monitoring committee. • Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. Updating of softwares is done by lab assistants. • Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing. • Regular maintenance of the water cooler and water purifier is done by outsourcing agent. • The maintenance of the reading room and stock verification of library books is done regularly by library staff.

http://mrec.ac.in/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 | 87 | 174000 |
| Financial Support from Other Sources |  |  |  |
| a) National | Telangana State E-Pass | 2245 | 94689300 |
| b)International | Nil | Nill | 0 |
| View File | | | |

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

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved |
| --- | --- | --- | --- |
| Yoga Meditation | 13/09/2016 | 1236 | Internal Faculty (MREC) |
| Personal Counseling Mentoring | 01/06/2016 | 7418 | Internal Faculty (MREC) |
| Bridge Courses | 22/08/2016 | 1236 | Internal Faculty (MREC) |
| Language Lab | 20/06/2016 | 2293 | Internal Faculty (MREC) |
| Remedial Classes | 05/09/2016 | 1704 | Internal Faculty (MREC) |
| Soft Skill Development | 01/06/2016 | 1209 | FOCUS ACADEMY FOR CAREER ENHANCEMENT, HYDERABAD |
| View File | | | |

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

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passedin the comp. exam | Number of studentsp placed |
| --- | --- | --- | --- | --- | --- |
| 2016 | Campus Recruitment Training | Nill | Nill | Nill | 548 |
| 2017 | GATE/GRE/TOEFL/IELTS | Nill | Nill | 57 | Nill |
| 2016 | Guidance and Counseling | Nill | 665 | Nill | Nill |
| View File | | | | | |

| 5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year | | |
| --- | --- | --- |
| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
| 4 | 4 | 8 |

## 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 |
| AMAZON | 650 | 13 | Host Analytics | 347 | 3 |
| 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 | Depratment graduated from | Name of institution joined | Name of programme admitted to |
| --- | --- | --- | --- | --- | --- |
| 2017 | 1 | B. Tech. | Civil Engineering | National Institute of Construction Management and Research, Hyderabad | Post Graduate Programme in Quantity Surveying and Contarcts Management |
| 2017 | 1 | B. Tech. | Electrical and Electronics Engineering | BVRIT, Narsapur | M. Tech. |
| 2017 | 1 | B. Tech. | Mechanical Engineering | Dhruva College of Management | PGDM |
| 2017 | 1 | B. Tech. | Electronics and Communication Engineering | MLRIT | M. Tech. |
| 2017 | 1 | B. Tech. | Mining Engineering | OU, Hyderabad | M. Tech. |
| View File | | | | | |

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

| Items | Number of students selected/ qualifying |
| --- | --- |
| GATE | 6 |
| GRE | 27 |

| TOFEL | 22 |
| --- | --- |
| Any Other | 9 |
| View File | |

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

| Activity | Level | Number of Participants |
| --- | --- | --- |
| Sports | Institute Level | 69 |
| Cultural Activities | Institute Level | 24 |
| 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 |
| --- | --- | --- | --- | --- | --- | --- |
| 2017 | Second | National | 1 | Nill | 13J41A02A1 | Nisarg Trivedi |
| View File | | | | | | |

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

The foundation firmly thinks about that the advancement of the establishment is on the commitment of every one of its partners, for example, understudies, the staff, the personnel and the administration. For that, the foundation has set up different understudy part chambers. The understudy delegates are chosen from each class and named them to different understudy board councils. These boards comprise of understudies and employees in different scholastic and organization bodies, for example, specialized, social, social, Sports, NSS and different panels dependent on the understudies advantage. Every board of trustees has its own chief body with the personnel and understudy agents, so they work under the initiative of the employees. The understudies disperse the data from school organization and different boards of trustees to all the understudies. The individuals from these understudy gatherings are allotted various situations in scholastic and authoritative bodies for the smooth direct of the apparent multitude of occasions or exercises in the grounds. The primary target of these boards is to guarantee the nonstop and smooth direct of different exercises in the grounds each year. The board is answerable for directing various occasions and exercises during the time in the grounds, for example, curricular, co-curricular and extracurricular exercises where the understudies help the educators in orchestrating, arranging and executing various exercises dependent on their advantage. Notwithstanding, the understudy agents go about as facilitators among understudies and personnel for the trading of their perspectives and feelings. These councils guarantee that the most extreme dynamic cooperation and commitment of the understudies and employees in different occasions and exercises led by the establishment. The exercises of the understudy board are led by the dynamic cooperation of all the employees. The understudy boards lead various exercises and occasions in the school reason, for example, specialized, non-specialized fests, workshops, meetings, visitor addresses, commending uncommon days and directing different rivalries for the understudies by the understudies. The understudy gathering delegates effectively take an interest in different augmentation exercises, for example, Swachh Bharat Abhiyan, Tree manor, Yoga Day in June, Blood Donation Camp, observing Engineers Day in September, Mehendi and Rangoli Competitions in

January, etc so forward. The understudy delegates in various boards perform different capacities, for example, arranging sports day and social occasions. The organization furnishes understudies a chance to collaborate with the business specialists and get familiar with the latest improvements in the exploration and in their specializations. It handles the issues of understudies in the grounds, and the equivalent can be imparted to the head. Different duties of the understudy committees remember the support of order for the grounds and keeping the organization perfect and green. Adequately working in understudy chambers, the understudies get an opportunity to speak with the employees, the staff, the head and the administration. Appropriately, this data help understudies to create initiative aptitudes and the board abilities through dynamic commitment.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

(i) (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 people. It incorporates governing body with President, Vice-president, Secretary, Treasurer and General Secretary and Executive body and they extend their interminable similarity with the foundation. New body is picked once in at normal stretches. The graduated class connection 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 graduated class alliance 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 graduated class 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. (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:

1197

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

| 75000 |
|---|

**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)

i. Governing body is crucial in decision-making, which frames/ amends rules and Regulations assigns responsibilities to various Committees, Principal, Heads of the Departments (HoDs), Heads of the Sections. The constitution of statutory bodies such as Governing council, Academic Council, Finance Committee, Board of Studies are systematically works with task based functions and responsibilities as per the need and necessity to the regulatory/statutory bodies. Various committees performs a crucial role in polic making policies of governance, academics, finance, research and teaching learning. The Principal ensures the well ordered 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 firmly upholds the belief that the progress and enlargement of the Institute and procuring of quality depend on contribution of the employees of the Institute. ii. The despersed process exists even at the department levels. Each department Program coordinators are appointed at UG and PG level to look after the activities of each program. Resolutions and conclusions at department levels are taken by dynamic committees like Department Academic committee, Board of Studies, Department Development Committee, Class Review Committee. HODs are invited to attend Governing council meeting, management and Governing council members interact to develop a blueprint for the progress of the departments and image of organization. Active role is performed by all collaborators of the institutions 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 systematically in our Institute. Every |

| | |
|---|---|
| | department has forms its own Board of Studies (BOS). BOS contains University nominee, Subject experts from reputed universities/Institutions, Industry experts and internal faculty. BOS is conducted once in ayear. Curriculum is changed once in two years considering changes in technology and requirements of the industries. The Institute encourages the faculty to contribute to enrich the curriculum during course of its revision. After the completion of BOS, the recommendations are forwarded to the Academic Council for its approval |
| Teaching and Learning | Well planned and effective approach is followed has in Teaching and Learning for the past four years. The faculty persistently 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 plan and 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 progressive made by the students has been implemented. 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 good idea in teaching-learning process from the current semester. The innovative practice aims at active learning process of the students by involving them to come pre-prepared with concepts to each and every class, participate in group learning inside the classroom facilitated actively by the faculty in a series of pre-planned steps. The innovative exercise has been implemented in collaboration and guidance of accelerator, an organization dedicated to the cause of augmenting student-centric learning through modern digital learning platform. The implementation has been limited to only few specific subjects on an experimental basis. The emphasis has shifted to the practice of outcome based education(OBE) by every faculty |

| | |
|---|---|
| | across the institution as the institution has set its goal to get accreditation by NBA |
| Examination and Evaluation | • Continuous internal assessment is done through conducting various tests from time to time. • Two theory mid semester exams, two assignment tests and two mid-practical exams are conducted for each paper of the subject in each semester for B. Tech ., M. Tech and MBA Programs. • In between, seminars, group discussions, show and tell and quizzes etc activities are also conducted. • Mini project done by the student is continuously reviewed at 3stages. • The marks of the student are uploaded in database with EMS software once the evaluation is finished. 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 evaluation system has been changed from Percentages to Grading System. • In case of 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 | Research Development Cell has been established by the institute.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 management emphasis and encourages the faculty members to publish research papers in well reputed journals. The Institute gives cash rewards to faculty who publish papers in well reputed journals like Scopus Indexed, Web of Science, etc. The institute also encourages faculty to attend seminars, conferences, FDPs and Workshops |
| 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 refurnished |
| Human Resource Management | 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 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. |

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

| E-governace area | Details |
|---|---|
| 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 decentralised functionaries. |
| Finance and Accounts | competent software to maintain and manage the inflow and outflow of the finances used by the institute. Usage of software is helpful in accounts 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 |
|---|---|
| Examination | Our Institute has adopted online transaction for the payment of examination fee. Once the fee is paid, the receipt is generated. Then the examination branch generates hall tickets for the students who have paid exam fee through online, Students can also apply for revaluation through online process only. The exam branch uses 'BEES' software for online transactions and to complete the process of the system. The OMR sheets of theory and practical examinations are scanned by software and the marks are up loaded. The results are directly sent to the parents using the software. |

## 6.3 – Faculty Empowerment Strategies

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

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|---|---|---|---|---|
| 2017 | P.Rajitha | International Conference on Recent Trends in Engineering Science Management | Dhruva College of Engineerring | 2000 |
| 2017 | J Kavitha | Faculty Enablement Program on "Foundation Program 5.0" | MLR Institute of Technology, Hyderabad | 1000 |
| 2016 | V. Ranjith Kumar | Management Capacity Enhancement Programme | IIM, Tiruchirapall | 2000 |
| 2016 | Dr A.Raveendra | HYPER WORKS AND CFD | ST MARTINS COLLEGE | 1000 |
| 2016 | C.Silpa | E-Learning | C-DAC, | 1000 |

| Year | | Title | Place | Amount |
|------|---|-------|-------|--------|
| | | and Multimodal Learning Analytics | Hyderabad | |
| 2016 | Dr. S.MadhuBabu | Real Time Signal and Image Processing using DSP Processor | Vardhaman college of engineering, Hyderabad | 1000 |
| 2016 | Y.Rokesh Kumar | Database Design Programming with SQL | Oracle Academy, Hyderabad | 1000 |
| 2017 | Dr. G. Charles Babu | National Conference on "Computational Intelligence, Computing Networks" | Methodist College of Engineering Technology | 1000 |
| 2017 | T.Srinivas Reddy | Digital VLSI System Design Using Verilog HDL | CDAC,Hyderabad | 1000 |
| 2016 | Ms P Nagalakshmi Devi | One week FDP on "Numerical Methods and Optimization Techniques in Engineering Research | CMR,Engg College,Hyderabad | 1000 |
| [View File](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) |
|------|------|------|------|------|------|------|
| 2017 | NA | Training on SPECIAL TOOLS | 12/03/2017 | 13/03/2017 | Nill | 18 |
| 2017 | One day work shop on Financial training for young Investors by SEBI | NA | 24/06/2017 | 24/06/2017 | 46 | Nill |
| 2016 | Seminor on | NA | 11/09/2016 | 12/09/2016 | 135 | Nill |

| | | | | | | |
|---|---|---|---|---|---|---|
| | "Advanced Surveying Techniques in Civil Engineering" | | | | | |
| 2016 | One Week FDP on "HTML5 and Python Programming" | NA | 16/09/2016 | 21/09/2016 | 50 | Nill |
| 2016 | NA | Workshop on Network Administration | 01/07/2016 | 02/07/2016 | Nill | 20 |
| 2016 | Modern Power System Operation Control | Nill | 11/07/2016 | 16/07/2016 | 40 | Nill |
| 2016 | Nill | Challenges in electrical engineering | 15/09/2016 | 15/09/2016 | Nill | 38 |
| 2016 | Six Day FDP on " Emerging Trends in Analog and Digital Design using Cadence: Hands on Learning" | Nill | 11/07/2016 | 16/07/2016 | 40 | Nill |
| 2017 | One Week Workshop on "Embedded System Design" | Nill | 13/02/2017 | 17/02/2017 | 20 | Nill |
| 2017 | Importance of Basic Science Education in Engineering Colleges in India (FDP) | Nill | 13/05/2017 | 13/05/2017 | 46 | Nill |
| [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 |
|---|---|---|---|---|
| Slope Stability Analysis | 4 | 19/11/2016 | 24/11/2016 | 6 |
| Astroid Mining | 1 | 07/07/2016 | 14/07/2016 | 8 |
| One Week FDP on "HTML5 and Python Programming" | 50 | 16/09/2016 | 21/09/2016 | 6 |
| One Week Faculty Development Program on "Signals and Stochastic Processes" | 6 | 06/03/2017 | 11/03/2017 | 6 |
| Five Day FDP on Research Trends in Image Processing | 2 | 15/06/2017 | 19/06/2017 | 5 |
| Faculty Updation Program on Digital VLSI System Design using VERILOG HDL | 5 | 01/08/2016 | 05/08/2016 | 6 |
| Refresher Course on Digital Image processing and Applications | 7 | 02/07/2016 | 10/07/2016 | 9 |
| Modern Power System Operation Control | 40 | 11/07/2016 | 16/07/2016 | 7 |
| Innovative Teaching, Pedagogy and Student Management | 8 | 14/07/2016 | 18/07/2016 | 5 |
| Management Capacity Enhancement Programme | 6 | 25/07/2016 | 29/07/2016 | 5 |
| View File | | | | |

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

| Teaching | | Non-teaching | |
|---|---|---|---|
| Permanent | Full Time | Permanent | Full Time |
| **122** | **122** | **8** | **8** |

## 6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|---|
| **Medical Health Insurance, Provident Fund, Subsidized Transportation and Free Transportation during beyond working hours.** | **Medical Health Insurance, Provident Fund, Free Transportation** | **Subsidized Transportation and Free Transportation during beyond working hours, Aid for the Students 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** | **165000** | **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 and Parent Teacher Meeting (2) Supporting the institutional ethos and values (3) Feedback on regular basis

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

(1) Training on Shaping Machine, Mig Welding and Special Tools Training (2) Workshop on Android application development (3) Electrical wiring and electrical estimation (4) Workshop on Network Administration (5) Enhancing Communication Skills

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

(1) RD activities have been improved (2) Teaching learning methods (3) Student Mentoring

### 6.5.5 – Internal Quality Assurance System Details

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

### 6.5.6 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
| --- | --- | --- | --- | --- | --- |
| 2016 | Tech Mahindra Placement Success meet | 28/07/2016 | 28/07/2016 | 28/07/2016 | 342 |
| 2016 | A Talk on Personality Development By Dr Yandamuri | 06/09/2016 | 06/09/2016 | 06/09/2016 | 1046 |
| 2016 | VISHESH 2K16 | 15/09/2016 | 15/09/2016 | 15/09/2016 | 1672 |
| 2017 | International Womens Day Celebrations | 09/03/2017 | 09/03/2017 | 09/03/2017 | 232 |
| 2016 | Orientation Day | 04/08/2016 | 04/08/2016 | 04/08/2016 | 1217 |
| 2016 | Anti Ragging Awareness Programme | 06/09/2016 | 06/09/2016 | 06/09/2016 | 1156 |
| 2017 | National science day 2017 | 10/03/2017 | 10/03/2017 | 10/03/2017 | 231 |

| 2017 | AKSHARA 2K17 | 07/04/2017 | 07/04/2017 | 07/04/2017 | 2313 |
|---|---|---|---|---|---|
| 2017 | Graduation Day | 01/07/2017 | 01/07/2017 | 01/07/2017 | 786 |
| 2017 | National Level Youth Meet on Safe Water for Future | 20/03/2017 | 20/03/2017 | 20/03/2017 | 342 |

View File

## 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 | 01/10/2016 | 01/10/2016 | 300 | Nill |
| Karthika Vana bhojanaalu | 19/11/2016 | 19/11/2016 | 175 | 250 |
| Seminar on Women in Engineering | 17/12/2016 | 17/12/2016 | 150 | Nill |
| Sankranthi samburalu - Local harvest festival | 07/01/2017 | 07/01/2017 | 220 | 590 |
| International Women's day | 08/03/2017 | 08/03/2017 | 835 | 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 |
|---|

Biogas is distinct from other renewable energies because of its characteristics of using, controlling and collecting organic wastes and at the same time producing fertilizer and water for use in agricultural irrigation. Biogas contains 50 - 70 methane and 30 - 50 carbon dioxide along with small amounts of other gases and typically has a calorific value of 21 - 24 MJ/m3.Calorific value of kitchen waste is high and nutritive value to microbes. It means higher efficiency and this reduces the reactor size and cost of biogas plant. MREC(A) campus generates about 100Kg of bio-waste per day. The bio-waste generated however is treated with in the campus itself. The bio wastes generated are plant leaves and the kitchen waste and the leftover food. These are collected and are sent to the biogas plant installed within the campus boundary and used as feedstock for the small biogas plant. These bio-wastes such as leftover food, vegetable and fruit cuttings, paper, plant leaves etc are converted into bio-gas which is piped out to the kitchen to be used as fuel in gas stoves for cooking and heating. This reduces the gas bill and additional purchase of gas. Thus, both bio-waste problem is solved and energy is generated which solves both the problems. The solid waste remaining at the end of the process of bio-

gas generation is high quality organic manure which is utilized for campus plants. 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 |
|---|---|---|---|---|---|---|---|
| 2016 | 1 | Nill | 05/09/2016 | 1 | Teachers day | Valuable services by Dr Sarvepalli Radhakrishnan were recollected | 135 |
| 2016 | 1 | Nill | 15/10/2016 | 1 | International students day (Birth anniversary of Dr. A.P.J. Abdul Kalam | His valuable services to the nation were recollected | 900 |
| 2016 | 1 | Nill | 31/10/2016 | 1 | Rashtriya ektha diwas | Inspiring incidents from Mr Vallabh Bhai Patels life were shared | 180 |
| 2016 | Nill | 1 | 28/12/2016 | 1 | Awareness campaign on cash less transactions | In the backdrop of Demonetisation, all the staff | 350 |

| 2017 | 1 | Nill | 12/01/2017 | 1 | National youth day celebrations | Inspirational incidents from the life of Swamy Vivekananda were recollected | 300 |
| 2016 | Nill | 1 | 11/07/2016 | 1 | Haritha haram | Plantation of trees in the campus | 90 |

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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 | 27/06/2016 | Subject called Human Values and Professional Ethics is introduced in the CBCS curriculum as Mandatory Course with 2 credits with the subject code 50H11. This subject covers elaborately the following topics - Human values, Professional Ethics, Life skills, Harmony in human beings vs harmony in self, Responsibilities and rights, Global issues |

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

| Activity | Duration From | Duration To | Number of participants |
|---|---|---|---|
| International day of Yoga | 21/06/2016 | 21/06/2016 | 80 |
| Anti ragging awareness campaign | 13/08/2016 | 13/08/2016 | 750 |
| Clay Ganesha-Bucket immersion campaign | 07/09/2016 | 07/09/2016 | 820 |

| | | | |
|---|---|---|---|
| Anti drug awareness campaign | 09/12/2016 | 09/12/2016 | 910 |
| National youth meet on safe water for future | 21/03/2017 | 23/03/2017 | 845 |

[View File](#)

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

Switching off lights and fans when not required Restricted vehicle entry to specific parking areas No helmet - no entry Tree plantation Regular blood donation camps by NSS

## 7.2 – Best Practices

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

TRAINING THE TRAINER Objective: The main objective of Training the Trainer is:- a) Ones own goals should support the goals of the organization. b) Self confidence building c) Awareness of environment d) Organizational skills Context: Train-the-Trainer is a framework for training potential instructors or subject matter experts to enable them to train other people in their organisations. The expected outcome is that attendees learn the new knowledge or skill, and they will instruct further batches of people in the organisation. Practice: In Malla Reddy Engineering College(A) we follow the following methodologies in order to train the trainers in an efficient way. After the planning has been done all the preparation is taken care. We know our training needs, we've set goals, management is behind us, we promoted our training schedule, and prepared materials, space, and people. Here are some specific tips and techniques which we follow to help the trainees in order to run an effective training session that accomplishes the goals in an enjoyable and engaging way for everyone involved. Here are the proven techniques to conduct a successful training session: • We tell trainees what we're going to cover. Introduce the session with a brief overview of the training subject's main points. • We tell them the information. In the main portion of the session, explain key points, go over policies, demonstrate procedures, and relate any other information trainees need to know. • Concluding with a summary of the opening overview. Use repetition to help trainees grasp and retain information. • Always we explain what trainees are going to see before we show a multimedia portion. This practice creates a better learning environment by guiding trainees to know what to look for and what to remember. Explaining the purpose of the multimedia ensures an effective reception for its information. • Using as much hands-on training as possible. The most effective training uses all the senses to affect learning. Demonstrating and applying teaching points to create greater understanding and knowledge of the subject. • Test frequently. Tests are most effective when trainees know they will be quizzed, because they'll pay close attention to the material. Testing is an objective way to determine whether training achieved its goals. • Analyzing the session as we go. Always be on the lookout for what works best. When we discover a new technique or method that clicks with the group, we note it on our training materials so it can be incorporated into the training outline to be used in future sessions. • We put yourself in their shoes—or seats. Give frequent breaks, especially for half-day or all-day sessions. • Solicit feedback on the training session. Critiques work best when they are written and anonymous, unless a trainee volunteers to discuss his or her thoughts in person. Trainee input is vital for making the next session—and the overall training program—more effective. Evidence of Success: It is important because when trainers create training programs to the trainers then they will be able to match the organization goals, new employees embibe the work culture and become more engaged with the

organization. Whether the organization is well-established or a brand new startup, one thing you cannot afford to ignore is providing the employees with the best possible training you can. After all, it's the scaffold that will help the institute grow and remain competitive. However, it's not necessarily easy to set up: each institute is unique, and there is no one-size-fits-all training solution out there. You need to create a learning and development program that addresses the training challenges your organization and employees face. One that will help you remain at the top of the game and flexible enough to change as the organization evolves. Problems Encountered and Resources Needed: The challenges of training and development in an organization are fairly similar wherever you go, especially when you are establishing your training program, and can be parsed down into a few key considerations. The first of the most common issues in training and development is pretty obvious – what exactly should your program be comprised of? A big problem some Learning and Development team face is a portfolio of courses that is too big, too unwieldy, out of date, repetitive or just plain useless. Another one of the challenges in training and development is the sometimes fraught issue of who exactly delivers the learning and development. Do you rely on internal knowledge and expertise, which has the advantages of being fully under the organization's control? Or should you opt for external trainers, who will bring their own experience, skills and new concepts, but who can be a costly learning asset? The key to this issue is tied up with our first question. It really does depend on the nature or the training requirements. There will be times that will be much better off deploying an internal asset – for example when delivering induction training – but sometimes, bringing in external trainers is actually more cost effective. This is particularly the case when we consider the next of our problems associated with training and development. Decision and professional endeavours of the new employees will henceforth be aligned with the organization goals as well. Allied with the above, the exit process of course delivery is the last of the training challenges that talent development might face. Just as software have life cycles, so do training courses. Ensuring course completion is vital. Without it, how can you ensure that the learning objectives were achieved? With eLearning, it's easy to monitor individual completion and achievement rates. Indeed, most eLearning platforms have monitoring and reporting tools to help with this task. It's also important, however, to get feedback on the course, and, crucially, to be seen acting on what has been told. This way, you are more likely to keep trainees engaged. In turn, they'll feel more like stakeholders in their own development, and you get insights into what worked well and what wasn't quite as good in your eLearning offering. From that, you can then feed this into your course development cycle, ensuring that your content remains up to date and relevant. You may want to embed the feedback into the course ending, so that the employee, by providing a response, then achieves course completion. This way, you solve two challenges in learning and development in one go. Overcoming Training Challenges These are the main training challenges in organizations, but as we can see, they're all easily surmountable. The keys are consistency, logic, and flexibility, as well as an ability to consider the Learning and Development process holistically – and to include the employees in the process. It may be said that the trainees themselves are one of the challenges faced by trainers, but don't view them like that: In fact, they're often the solution! Skill Development Training Objective: Skill development is the process of a) Identifying the skill gaps b) Developing and honing these skills It is very important that ones own skills determine the ability to create the plans with success. The best and simple example of skill development for a carpenter is his/her tools. Context: Skill Development Courses – Many institutions are engaged in highly specialized academic and industry training programs to promote skills among its students and youth, with a greater emphasis on the improvement of employment opportunities and research activities. Skill-based learning is about planning,

implementing and analysing skills gained through knowledge-based learning method. Students are motivated to think logically, analyse concepts and apply their insights. In another words " A skill is an ability to perform an activity in an competent manner." Skills can be classified into 3 main types:- a) Transferrable / Functional b) Personal Traits / Attitudes c) Knowledge based In Mallareddy Engineering College(A), we concentrate on the above 3 types of skills. Transferrable / Functional These are the actions taken to perform a task, transferrable to different work functions and industries. These are based on ability and aptitude. Personal Traits / Attitudes Traits or personality characteristics that contribute to performing work. Developed in childhood and through life experience. Knowledge based Knowledge of specific subjects, procedures and information necessary to perform particular tasks. Acquired through education, training and on-the-job experience. Practice: In Mallareddy Engineering College(A) we induce the these methods in the faculty and as well as the students: • Communication. A huge part of teaching is communicating information. ... • Patience. People learn at all different rates. ... • Creativity. ... • Enthusiasm. ... • Confidence. ... • Dedication. ... • Conflict resolution. ... • Organisation. Along with the above factors which are mentioned above we stress more on the students to inculcate the following factors to make them employable: • Critical thinking and problem-solving. • Collaboration across networks and leading by influence. • Agility and adaptability. • Initiative and entrepreneurialism. • Effective oral and written communication. • Accessing and analyzing information. • Curiosity and imagination. We insist our faculty members to undergo various trainings / workshops / fdp's / seminars

| 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%202016%20-%2017.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

Around 25 faculty members with little or no teaching experience attended a 3 day training programme on Sharpening teaching competency by Prof. A. K. Saxena, from July 28 - 30, 2016. Anti ragging awareness programme is organised in association with the Police officials from the local Police station to appraise the students about the legal and social consequences of getting involved in ragging and the ill effects of ragging, on Aug 13, 2016. A seminar on Personality development is conducted for the benefit of first year B. Tech. students. Renowned motivational speaker Dr. Yandamoori Veerendranath spoke on various aspects like positive thinking, self motivation and stress management. A delegation of representatives from the reputed universities of the U. S. A. visited the institute on Sep 7, 2016 to educate the aspiring students about the admission process in those universities. The institutes National Service Scheme units started a novel programme this year called Massive bucket immersion. Clay idols of Lord Ganesha are distributed among the staff and students. After performing the pooja on the day of Vinayaka chavithi all the staff and students brought the idols back to the college. In a well disciplined manner, all the members immersed their idols in the big water buckets (drums) arranged for the purpose. Then the water is transferred to the plants in the campus. This event is conducted in association with the N. G. O. Lee Sreyus foundation. Appanna Molli of IV B. Tech. ECE got state best NSS volunteer award. The PG programmes - M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) got accredited by NBA for two years till 2017 - 18. The institute celebrated World Students day on the occasion of the birth anniversary of the former President and eminent scientist, the missile man of India, Dr. A. P. J. Abdul Kalam on 15

October 2016. Numerous workshops are conducted for the benefit of students, by various departments. Also numerous FDPs are organised to help the faculty members in updating their knowledge. Departments of EEE, ECE and CSE conducted a two day national conference on recent trends from Nov 12 - 13, 2016. The traditional Karthika samaradhana and the inauguration of Knowledge Resource Centre (a new and dedicated venue for the Central library) coincided on Nov 19, 2016. The institute organised Anti drug awareness on Dec 9, 2016. The institutes NSS units organised this programme in association with the NGO of Kerala state named I. C. P. F. In the light of demonetisation by the Government of India, the institute organised awareness programme on digital transactions in order to educate the non teaching staff in particular. Mr. B. V. Narasimha Rao, a student of IV B. Tech. ECE in the institute, completed a courageous 18 day cycle tour to the state of Gujarat. He started the cycle rally with the slogan - one country, one intention - one beginning. All through his cycle rally he interacted with the masses from the rural area and educated them about cashless transactions.

| Provide the weblink of the institution |
| :---: |
| http://www.mrec.ac.in/NAAC/Criterion7/ID%20AY%202016-17.pdf |

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

i. To submit compliance for the extension of N. B. A. for M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) M. Tech. (Structural Engineering) and M. Tech. (Thermal Engineering) got accredited in this academic year for a period of two years i.e., till 2017 - 18. Therefore a compliance report need to be submitted by the end of the academic year 2017 - 18, so as to get the extension of accreditation till the academic year 2018 - 19. Hence untiring efforts need to be put to flawlessly submit the compliance report. ii. To provide skill development training to the students so as to enhance their employability chances One common observation by most of the industry experts in the recent times is that majority of the students entering the job market lack the skill set that the industry is looking for. This drawback has a very great influence on the employability chances of the students. Therefore the students should be properly trained such that they acquire required skills that the industry is looking for. The engineering knowledge of the student coupled with the skill set that the student has acquired with the additional training sessions provided by the institute will definitely enhance the employability chances of the student. The institute plans to enter into Memorandum of Understanding with the industry giants like National Instruments and Hewlett - Packard. The authorized training personnel of National Instruments conduct training sessions in the campus to the interested students on their proprietary software package called LabVIEW. Similarly the training personnel of Hewlett - Packard offer training on their customary software package called DevOps.