

## Criterion VII – Institutional Values and Best Practices

Metric No.	Key Indicator - 7.1 Institutional Values and Social Responsibilities
	<b>Gender Equity</b>
<b>7.1.1 QiM</b>	<p><b><i>Measures initiated by the Institution for the promotion of gender equity during the year</i></b></p> <p>Describe gender equity &amp; sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words</p> <p><b><i>Provide Web link to:</i></b></p> <ul style="list-style-type: none"> <li>• Annual gender sensitization action plan</li> <li>• Specific facilities provided for women in terms of:               <ol style="list-style-type: none"> <li>a. Safety and security</li> <li>b. Counselling</li> <li>c. Common Rooms</li> <li>d. Day care center for young children</li> <li>e. Any other relevant information</li> </ol> </li> </ul>

Gender equality is one of the key challenges facing society today. The institute conducts regular gender equity promotion programs. Guest speakers from prominent field are invited to speak on the given topic which highlights the importance and contribution of women in the society.

The gender equity promotion programs organized by the institution are given below:

MRCET has a strong ethical work culture that is based on inclusivity. It observes highest ethical standards in all its activities. Equal opportunities are provided to all individuals irrespective of gender, race, caste, color, creed, language, religion, political or other opinion, national or social origin, property, birth or other status. Its unique work culture, healthy traditions and ethos have led to enrolment of 68% women students and 49% women staff.

Safety, security and well-being, along with gender equity and friendly working atmosphere are the issues of prime concern to MRCET.

Annual gender sensitization action plan taken in MRCET is as follows:

Name of the Programme	Date	No. of Participants
<b>Women Empowerment</b>	<b>05 August, 2016</b>	<b>168</b>
<b>Gender Sensitization-ECE</b>	<b>26 September, 2016</b>	<b>240</b>
<b>Gender Sensitization-CSE</b>	<b>27 September, 2016</b>	<b>240</b>
<b>Gender Sensitization-IT</b>	<b>28 September, 2016</b>	<b>60</b>
<b>Gender Sensitization-MECH</b>	<b>29 September, 2016</b>	<b>180</b>
<b>Gender Sensitization-ANE</b>	<b>30 September, 2016</b>	<b>60</b>
<b>International Womens Day Celebrations</b>	<b>8 March, 2017</b>	<b>79</b>

Gender sensitivity is an inherent value in the cultural ethos of the institute and its neighboring community, as is evident by the following facilities –

### **(a) Safety and Security**

- Well-trained and vigilant women security guards stationed across the campus.
- Security checkpoints at all campus entries and exits.
- Extensive surveillance network with 24x7 monitored control rooms.
- Rotational duty by all faculty members for discipline and security.
- The Proctorial Committee includes male and female proctors at institute as well as faculty level.
- Night Patrols by local community including students and teachers.
- Summer Patrols by students.
- Strict implementation of Anti-Ragging, Anti-Smoking and Mobile Free Campus.
- Awareness campaigns on women safety and gender sensitivity through street plays, rallies and camps by NSS and NCC student volunteers.
- Separate hostels for men and women with dedicated wardens.
- The Institute is the preferred destination of parents for education of their female wards as evidenced by the Stakeholder Feedback.
- Eco-friendly crèche for wards of institute staff with dedicated staff and faculty supervisors.

### **(b) Counseling**

- Formal and informal avenues for counseling male and female students and staff for academic and other issues/problems.
- Class and Proctorial Committees are available for counseling of both males and females' students.
- Grievance Redressal Committees for staff and students
- Gender sensitization camps in slums and rural areas of Agra district that include the following aspects:
  - Women's rights
  - Human rights
  - Child rights
  - Gender justice
  - Gender equality
  - Gender sensitization workshops
  - Specific courses dedicated to gender issues.
  - Campaigns against female feticide.
  - Business Advisory Clinic provides free counseling to various MSMEs.
  - Faculty Placement Cells and Alumni Placement Assistance Cell
  - Others – Entrance Exam Counseling, Matrimonial Counseling, Orientation Programmes for Teachers and Students.
  - Medical Counseling, Moral Counseling, Career Counseling, Village Counseling, Vocation Counseling weekly through medical camps.

**(c) Common Rooms:**

- In most of the Departments, common rooms have been allocated for men and women, which also facilitate meetings and discussions.

**(d) Other Measures**

Other measures of Gender Sensitization include –

- Curriculum and Coursework.
- Co-curricular activities.
- Enrolment of 68% women students and 49% women staff

MRCET has been successful in caring for its diverse students and staff population harmoniously in its efforts to steadily achieve its vision and mission. This is also evident from regular feedback from all its stakeholders.

**Other Initiatives**

Additional initiatives ensure active participation of students in co-curricular activities including sports as it is a compulsory core course in all UG programmes and also at intra-faculty, inter- faculty and inter-university levels.

**Community outreach**

The Life-Long Learning Education (LLLE) programme provides opportunity to women from all walks of life to get trained in entrepreneurship and self-employable skills.

As part of NSS activities, free educational camps are organized fortnightly in neighboring villages, which help transform rural women in building awareness about health, hygiene, importance of child education and provide a launching pad to induct them into vocational skilling.

MRCET has been successful in caring for its diverse students and staff population harmoniously in its efforts to steadily achieve its vision and mission. This is also evident from regular feedback from all its stakeholders.

	<b>Environmental Consciousness and Sustainability</b>
<b>7.1.2 Q<sub>n</sub>M</b>	<p><i>The Institution has facilities for alternate sources of energy and energy conservation measures</i></p> <ol style="list-style-type: none"><li>1. Solar energy</li><li>2. Biogas plant</li><li>3. Wheeling to the Grid</li><li>4. Sensor-based energy conservation</li><li>5. Use of LED bulbs/ power efficient equipment</li></ol> <p><b>Options:</b></p> <ol style="list-style-type: none"><li>A. Any 4 or All of the above</li><li>B. Any 3 of the above</li><li>C. Any 2 of the above</li><li>D. Any 1 of the above</li><li>E. None of the above</li></ol>

**Options B: Any 3 of the above**

<p>7.1.3 Q1M</p>	<p><i>Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)</i></p> <ul style="list-style-type: none"> <li>• Solid waste management</li> <li>• Liquid waste management</li> <li>• Biomedical waste management</li> <li>• E-waste management</li> <li>• Waste recycling system</li> <li>• Hazardous chemicals and radioactive waste management</li> </ul>
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MRCET key operations has very less impact on the environment as the University is very conscious of generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed.

The college has segregated waste into three parts:

- 1.Solid Waste
- 2.Liquid Waste
- 3.Hazardous Lab Waste

**Solid Waste:**

The waste is generated by all sorts of routine activities carried out in the College that includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The block safai workers in each floor collect, clean, segregate and compile the waste in the dustbins (Green and Blue) provided at each floor. The floor dustbins are emptied in movable containers/dustbins provided for each block and is taken to the dumping yard provided by the College.

The College has contacted an authorized vendor who collects the waste from the designated place, segregate them, recycles them and disposes them at the landfills authorized by the government.

**Liquid Waste:**

Liquid waste generated by the College are of two types:

- 1.Sewage waste
- 2.Laboratory, Laundry and cafeteria effluent waste

The above waste is treated through Sewage Treatment Plants (STPs) and Effluent Treatment Plants (ETPs) and the water is used for horticulture and flushing in toilets.

Number of ETP : 9 with handling Capacity : 68,200 liters/day

Number of STP : 4 with handling Capacity: 10,13,000 liters/day

The Hazardous Lab & other Waste Disposal, a Standard Operating Procedure has been evolved for handling the hazardous waste disposal system. For disposal of hazardous waste, government approved agency collects these from the designated point earmarked as“Hazardous Waste Room.” Records are maintained both at the College level and Department Level for the compliance of the process.

**E-Waste Management:**

Flip flops, memory chips, motherboard, compact discs, cartridges etc generated by electronic equipments such as Computers, Radio,TV, Phones, Printers, Fax and Photocopy machines are recycled properly. Instead of buying a new machine buyback option is taken for technology

upgradation. The e-waste generated from hardware which cannot be reused or recycled is being disposed off centrally through government authorized vendors.

<p><b>7.1.4</b> <b>QnM</b></p>	<p><b><i>Water conservation facilities available in the Institution:</i></b></p> <ol style="list-style-type: none"> <li>1. Rain water harvesting</li> <li>2. Borewell /Open well recharge</li> <li>3. Construction of tanks and bunds</li> <li>4. Waste water recycling</li> <li>5. Maintenance of water bodies and distribution system in the campus</li> </ol> <p><b>Options:</b></p> <p>A. Any 4 or all of the above          B. Any 3 of the above          C. Any 2 of the above          D. Any 1 of the above          E. None of the above</p>
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**Options A: Any 4 or all of the above**

<p><b>7.1.5</b> <b>QnM</b></p>	<p><b><i>Green campus initiatives include</i></b></p> <p>7.1.5.1. The institutional initiatives for greening the campus are as follows:</p> <ol style="list-style-type: none"> <li>1. Restricted entry of automobiles</li> <li>2. Use of Bicycles/ Battery powered vehicles</li> <li>3. Pedestrian Friendly pathways</li> <li>4. Ban on use of Plastic</li> <li>5. landscaping with trees and plants</li> </ol> <p><b>Options:</b></p> <p>A. Any 4 or All of the above          B. Any 3 of the above          C. Any 2 of the above          D. Any 1 of the above          E. None of the above</p>
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**Options A: Any 4 or All of the above**

<p><b>7.1.6</b> <b>QnM</b></p>	<p><b><i>Quality audits on environment and energy are regularly undertaken by the institution</i></b></p> <p>7.1.6.1. The institutional environment and energy initiatives are confirmed through the following</p> <ol style="list-style-type: none"> <li>1. Green audit</li> <li>2. Energy audit</li> <li>3. Environment audit</li> <li>4. Clean and green campus recognitions/awards</li> <li>5. Beyond the campus environmental promotional activities.</li> </ol> <p><b>Options:</b></p> <p>A: Any 4 or All of the above          B: Any 3 of the above          C: Any 2 of the above:          D: Any 1 of the above:          E: None of the above</p>
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**Options A: Any 4**

<b>7.1.7</b>  <b>QnM</b>	<b>The Institution has disabled-friendly, barrier free environment</b> 1. Built environment with ramps/lifts for easy access to classrooms. 2. Disabled-friendly washrooms 3. Signage including tactile path, lights, display boards and signposts 4. Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading <b>Options:</b> <b>A. Any 4 or all of the above</b> <b>B. Any 3 of the above</b> <b>C. Any 2 of the above</b> <b>D. Any 1of the above</b> <b>E. None of the above</b>
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**Options: B. Any 3 of the above**

<i><b>Inclusion and Situatedness</b></i>	
<b>7.1.8</b>  <b>Q1M</b>	<b>Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socio economic and other diversities (within 500 words).</b>

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. Different sports and cultural activities organized inside the college promote harmony towards each other.

Commemorative days like Women’s day, Yoga day, Cancer day, AIIDS along with many regional festivals like Bathukamma and Dasara are celebrated in the college. This establishes positive interaction among people of different racial and cultural backgrounds. There are different grievance redressal cells in the institute like Student grievance redressal cell, Women grievance redressal cell which deal with grievances without considering anyone’s racial or cultural background.

Institute has code of ethics for students and a separate code of ethics for teachers and other employees which has to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities.

For the patients also, the institute reaches out to community for providing better oral health care. Satellite centers have been established to provide patient care in rural areas. Jail camps are organized to provide dental treatment to jail inmates. Buses ply regularly from the college to get patients to the institute for the convenience of patients. School camps are also organized for oral screening of the kids so that preventive and interceptive dental treatment can be provided. Tobacco cessation cell has been established for the purpose of spreading awareness and providing necessary treatment and referrals wherever necessary to the needy. All these facilities to the patients are provided irrespective of their caste, creed, color, sex or socioeconomic background.

	<i>Human Values and Professional Ethics</i>
<b>7.1.9</b>	<b><i>Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens</i></b>
<b>Q1M</b>	Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.

MRCET takes pride in the fact that apart from preparing a sound academic foundation of the student community; the college constantly works upon to develop them as better citizens of the country. In this regard, the institute, apart from imparting professional legal education, inculcates a feeling of oneness among the student community through various practices and programs. Various faculties have always been in the practice of organizing activities that not only initiate but also motivate the students to adopt various practices that promote the “Unity in Diversity” of our motherland.

The College ensures that the students participate very enthusiastically in all such activities. Since the last five years, the college has strived forward with great effort to increase the level of awareness and appropriate practices amongst the students with regard to the following areas:

### **1. National Identities and Symbols:**

The College has always taken various direct and indirect 116 steps which promote the awareness about various National Identities and Symbols. The Indian Tri-colour stands tall at the main entrance of the College and in this way the College spreads the message of nation first policy. The College celebrates the Independence Day & Republic Day with great pomp and vigour. Department of MBA organizes and celebrates the Constitution Day on an annual basis and thus contributes to the spreading of Constitutional values and ideals.

### **2. Fundamental Duties and Rights of Indian Citizens:**

The Faculty of various departments, have organized various academic and co-curricular activities for the propagation of the Fundamental Duties and Rights of the Indian citizens. The students have enthusiastically participated in various programs like:

- a. Academic programs like Seminar, Conferences, Expert talks, etc which have enriched the awareness about these aspects.
- b. Various activities like poster making competition, etc.
- c. Organizing Annual Competitions on various contemporary legal issues.
- d. Organizing various forms of legal aid and legal awareness camps to impart awareness of such issues.

### **3. Constitutional Obligations:**

MRCET has organized student centric activities like paper, poster & essay competition displays at annual Synergy event etc which have always received huge participation from the students and promoted their awareness about various aspects of Indian citizenship.

List of various activities conducted in the Institute for inculcating values for being responsible citizens as reflected in the Constitution of India are given below:

S.No	Title of the programme/Activity	Duration (frm-to)	Number of participants
1	Independence Day -2016	15.08.2016	165
2	General assembly - Theme – Human Rights-MBA	01.12.2016	178
3	Seminar on Duties and Responsibilities of Citizens	17.12.2016	279
4	National Voters day	25.01.2017	358
5	Republic Day-2017	26.01.2017	159
6	Voters Awareness	16.02.2017	265
7	Special lecture on 'Conservation of natural resources'	25.02.2017	168
8	Special talk on Consumer Rights and Its Impact	07.03.2017	275
9	Yoga Day	21.06.2017	90

<i>Human Values and Professional Ethics</i>	
7.1.10 QnM	<p><i>The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.</i></p> <ol style="list-style-type: none"> <li>1. The Code of Conduct is displayed on the website</li> <li>2. There is a committee to monitor adherence to the Code of Conduct</li> <li>3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff</li> <li>4. Annual awareness programmes on Code of Conduct are organized</li> </ol> <p><b>Options:</b></p> <ol style="list-style-type: none"> <li>A. All of the above</li> <li>B. Any 3 of the above</li> <li>C. Any 2 of the above</li> <li>D. Any 1 of the above</li> <li>E. None of the above</li> </ol>

**Options: A: All of the above**



	<i>Human Values and Professional Ethics</i>
<b>7.1.11</b>	<b><i>Institution celebrates / organizes national and international commemorative days, events and festivals</i></b>
<b>Q1M</b>	Describe the efforts of the Institution in celebrating /organizing national and international commemorative days, events and festivals during the last five years within 500 words

The following is the list of national and international commemorative days, events and festivals the institute celebrates every year and make the students and faculty to participate.

	<b>Name of the event</b>	<b>Date</b>	<b>No. of the Participants</b>
<b>1</b>	<b>International Youth Day</b>	<b>10 August, 2016</b>	<b>540</b>
<b>2</b>	<b>Independence Day</b>	<b>15 August, 2016</b>	<b>165</b>
<b>3</b>	<b>National Sports Day</b>	<b>29 August, 2016</b>	<b>565</b>
<b>4</b>	<b>Teachers Day</b>	<b>05 September, 2016</b>	<b>2650</b>
<b>5</b>	<b>Engineers Day</b>	<b>15 September, 2016</b>	<b>1780</b>
<b>6</b>	<b>Gandhi Jayanthi</b>	<b>02 October, 2016</b>	<b>145</b>
<b>7</b>	<b>Human Rights Day</b>	<b>09 December, 2016</b>	<b>195</b>
<b>8</b>	<b>Republic Day</b>	<b>26 January, 2017</b>	<b>159</b>
<b>9</b>	<b>International Womens Day</b>	<b>08 March, 2017</b>	<b>85</b>
<b>10</b>	<b>World Earth Day</b>	<b>21 April, 2017</b>	<b>655</b>
<b>11</b>	<b>National Technology Day</b>	<b>11 May, 2017</b>	<b>350</b>
<b>12</b>	<b>Telangana Formation Day</b>	<b>02 June, 2017</b>	<b>95</b>
<b>13</b>	<b>World Environment Day</b>	<b>05 June, 2017</b>	<b>165</b>
<b>14</b>	<b>International Yoga Day</b>	<b>21 June, 2017</b>	<b>90</b>

#### **International Youth Day:12 August, 2016**

**International Youth Day (IYD)** gives an opportunity to celebrate and mainstream young peoples' voices, actions and initiatives, as well as their meaningful, universal and equitable engagement.

Department of MBA takes the initiation and organizes various activities like, debate, elocution, essay writing and other programmes where the students from various departments actively participate.

#### **Independence Day-15 August, 2016**

**Independence Day** marks the end of British rule in 1947 and the establishment of a free and independent Indian nation. It also marks the anniversary of the partition of the subcontinent into two countries, India and Pakistan, which occurred at midnight on August 14–15, 1947.

MRCET celebrates the Independence Day every year. Principal will hoist the flag and delivers speech highlighting about the significance of republic day to the students and staff. Few Directors, Heads and AO also speaks along with Principal.

#### **National Sports Day: 29 August, 2016**

The **National Sports Day** is observed every year to spread awareness about the importance of **sports** and games in the life of every individual. The **Day** remembers the **national sports** personality Dhyani Chand who was one of the greatest field hockey players of all time.

MRCET Sports Department, organizes National Sports Day every year and organizes Intra Department Sports in various sports.

#### **Teachers Day: 05 September, 2016**

**Teacher's Day** is celebrated to acknowledge the challenges, hardships, and the special role that **teachers** play in our lives. **Teachers Day** is one such event for which students and **teachers** equally look forward to.

Students of all departments organizes Teachers day and facilitate faculty members and conduct few events.

### **Engineers Day: 15 September, 2016**

**Engineer's Day** is celebrated to feel proud of the **engineers** of our country and to celebrate their achievements in each and every field of science and technology. In the economic progress and development of a country **engineers** play a very crucial role and contribution.

All departments of MRCET organizes various events to students and distribute prizes for the best three performances.

### **Gandhi Jayanthi: 02 October, 2016**

Honours Mahatma **Gandhi's** role in Indian Independence. Community, historical celebrations. **Gandhi Jayanti** is an event celebrated in India to mark the birthday of Mahatma **Gandhi**. It is celebrated annually on 2 October.

MRCET celebrates Gandhi Jayanthi every year and remembers the significant role played by Gandhiji.

### **Human Rights Day: 10 December, 2016**

International **Human Rights Day** is observed on December 10 annually. The main **aim** behind celebrating this **day** is to improve the physical, social, cultural and spiritual well-being and welfare of the vulnerable group of people globally.

MRCET celebrates Human Rights Day and highlights the importance of Human Rights to students. Eminent Speakers are invited to deliver lectures on Human Rights.

### **National Energy Conservation Day-14 December, 2016**

The **National Energy Conservation Day** is organized every year on 14th December every year by Bureau of **Energy Efficiency (BEE)**, under Ministry of Power, with an **aim** to showcase India's achievements in **energy efficiency and conservation**, while working for its ambition of holistic development as part of the nation's

Department of EEE organizes various programs on this occasion like paper presentation, poster presentation and arranging Guest lectures by eminent personalities in that particular domain.

### **Republic Day: 26 January, 2017**

**Republic Day** the date on which the Constitution of India came into effect on 26 January 1950 replacing the Government of India Act (1935) as the governing document of India and thus, turning the nation into a newly formed **republic**.

MRCET celebrates the Republic Day every year. Principal will host the flag and delivers speech highlighting about the significance of republic day to the students and staff. Few Directors, Heads and AO also speaks along with Principal.

### **International Womens Day: 8 March, 2017**

**International Women's Day** is a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary **women**, who have played an extraordinary role in the history of their countries and communities.

MRCET celebrated International Womens Day on 7 March, 2020 since 8 March 2020 being Sunday. Dr D Sujatha, Head, Department of CSE has taken the lead in organizing the function in which all lady faculty members along with Principal, Directors, Heads have participated.

### **World Earth Day: 22 April, 2017**

**Earth Day** is an annual event celebrated around the **world** on April 22 to demonstrate support for environmental protection.

Students of all department are made to exhibit posters highlighting the importance of environment and the prizes are distributed to the first three best posters.

### **National Technology Day: 11 May, 2017**

Main **objective** behind the observance of **National Technology Day** is to promote the spirit of entrepreneurship and innovation among Indians. On this **day**, the Government of India acknowledges upcoming entrepreneurs and innovators for their exceptional achievements.

Director, R&D initiates few programs and highlights the innovations, R&D Projects and other activities to Principal, all Directors, Heads and faculty members.

**Telangana Formation Day: 02 June, 2017**

The college celebrates the Telangana Formation Day and organizes few programs in this regard.

**World Environment Day: 05 June 2017**

The day raises **awareness** about the environmental issues like global warming, marine pollution, human over-population, protection of wildlife, and sustainable consumption. It has spread so far and wide, that WED has become a global platform for countries to reach out to the public. Students of all department are made to exhibit posters highlighting the importance of environment and the prizes are distributed to the first three best posters.

**International Yoga Day-21 June 2017**

Spreading growth, development and peace throughout the **world**. - Making people aware of physical and mental illnesses and providing solutions through **yoga**. - It also **aims** to develop a habit of meditation for peace of mind, self-awareness which is necessary to survive in a stress-free environment.

MRCET encourages yoga activities and Sports Department organizes a small workshop on Yoga and its significance to students and Faculty Members.

Metric No.	Key Indicator - 7.2 Best Practices
7.2.1 QM	<p><b>Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.</b></p> <p><b>Provide web link to:</b></p> <ul style="list-style-type: none"> <li>Best practices in the Institutional web site</li> </ul>

**Note: Format for Presentation of Best Practices**

**1. Title of the Practice**

This title should capture the keywords that describe the practice.

**2. Objectives of the Practice**

What are the objectives / intended outcomes of this “best practice” and what are the underlying principles or concepts of this practice (in about 100 words)?

**3. The Context**

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)?

**4. The Practice**

Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

**5. Evidence of Success**

Provide evidence of success such as performance against targets and benchmarks, review/results. What do these results indicate? Describe in about 200 words.

**6. Problems Encountered and Resources Required**

Please identify the problems encountered and resources required to implement the practice (in about 150 words).

**7. Notes (Optional)**

Please add any other information that may be relevant for adopting/ implementing the Best Practice in other Institutions (in about 150 words). Any other information regarding Institutional Values and Best Practices which the university would like to include.

## **BEST PRACTICE-1**

### **Title of the Practice: Centralized Internal Assessment Cell**

#### **Objective:**

The main purpose of introducing Centralized Internal Assessment Cell is to bring transparency in the periodic evaluation of teaching learning process. The Centralized Internal Assessment Cell assesses the performance of students over a well-distributed interval of time within the semester and to make the examination an internal and integral part of the teaching process. It is taking into account a number of essential abilities such as drive and capacity for hard work, leadership and team-work, motivation, quality of imagination, intuition and speculation, skilled use of hands, etc.

#### **Department Follows Well Refined Evaluation Process:**

- Mechanism of internal assessment is transparent and robust in terms of frequency and variety.
- Faculty members are trained with blooms taxonomy to set quality question papers and the questions are scrutinized by scrutinizing committee in each department.
- Question paper with scheme of evaluation is submitted prior to internal test securely.
- The answer scripts are evaluated according to course outcome and the individual student knowledge level is being analyzed.
- Marks of the students are entered in the College Automation and result analysis of all department is being analyzed for betterment of student's performance.

#### **Context:**

Internal Assessment is a continuous, periodic and internal, in which assessment is done to enhance the abilities and skills of the students periodically and continuously. Internal assessment tests will be conducted by college as per University schedule, while end examinations are conducted by the University. Internal assessment is to be assessed by the faculty of the particular course and no external teacher or instructor involved in this. Internal assessment demands the outcome of the students than the ability and the skills of the students. Centralized Internal Assessment Cell is basically a well defined and transparent methodology to evaluate the robustness of internal assessments meant for eradicating the problems relating to our examination system. A good internal evaluation system allows teachers of various courses to evaluate the performance of their students in accordance with the objectives they had set before themselves.

#### **Practice:**

- The rules and regulations for evaluation process are laid down by the affiliating University and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program.
- MRCET has Centralized Internal Assessment Section is headed by the Principal and assist by Exam Section Co-coordinator. An internal assessment test committee is established in the campus with Principal as the head and representatives from all the department. Committee Meetings are conducting on regular basis.
- The MRCE Exam Cell is well established in terms of infrastructure, computing, printing and intercom facilities.
- The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar.
- The internal assessment evaluation process is communicated to students by the respective faculty and also during orientation program for first year students.
- Syllabus for internal assessment will be communicated to students well in advance. Question papers are set based on Course outcomes and are approved by heads of the department.
- Any grievances in evaluation will be handled by faculty and Head of the department if necessary.

- Internal question paper setting process as follows: For every subject, respective faculty prepares question bank that covers equal number of questions from each unit, covering all the topics.
- Department internal exam coordinator under the guidance of HOD, checks for the standard of the question bank.
- College Internal Exam Coordinator along with an Exam team selects the final internal questions for each subject from the question bank.
- Question papers are given to the internal exam coordinators of the department on the day of test, after approval from the Principal. Faculty members prepare the answer key / Scheme of evaluation. Internal exam coordinator ensures smooth conduction of test and proper valuation of internal books.

#### **Evidence of Success:**

- The success rate in the final university exam has been improved after the implementation of the centralized internal assessment cell. Consistent pass percentage (> 85%) as well as the number of University Ranks in UG and PG programs. All internal exams related works are done inside the confidential room like Generation & Photocopying of exam Question papers, storing all unused answer scripts and dispatching of Written Answer scripts from the concerned class rooms to the Centralized Exam Cell.
- Transparency in exam and there is no chance of malpractice or injustice, since the question paper is reaching the respective exam.
- The institution follows a very clear, well planned calendar which schedules the examination. The students with less mark in the respective subjects are identifying by the class in charges and remedial /tutorial classes are given on that basis. This system adopting in MRCET is producing a good quality professionals, so that with good technical knowledge they are facing the placement interviews

#### **Problems Encountered:**

Student academic information need to be entered in server. Faculty should enter the data regularly after evaluation. Department in-charge should monitor the locking and unlocking of data. In this case Maintain data Transparency is difficult.

#### **Resources Required:**

A committee of dedicated faculties, Coordinators and supporting staffs. An academic calendar clearly specifying the date/time of various academic events to take place during the academic session should be notified prior to the commencement of the academic session. An committee should be constituted to monitor every program of the institute.

### **BEST PRACTICE: 2**

#### **Title of the Practice: Interfacing with Professional bodies and Industries.**

##### **Objective:**

Technology is an ever changing phenomenon. To keep up with the pace of latest happenings in the industry, MRCET faculty members and students are associated with the following professional bodies in the field of research and innovations, while also hosting numerous student and faculty chapters on campus. MRCET holds institutional membership of these societies that also occasionally fund student projects on campus.

- To formulate the general goals & responsibilities of technical education
- To adjust curriculum & educational processes to changing conditions
- To develop effective teachers & educational administrators
- To improve instructional methods & practices & administrative usages

- To enhance professional ideals & standards
- To foster research as a function complementary to teaching
- To cultivate fraternal spirit amongst the teachers, administrators, industrialists & professionals
- To bring about effective linkage between technical institutions industry & society
- To award Honorary fellowships, Awards and Prizes, for furthering the objectives of Technical Education

### **Context:**

The Indian Society for Technical Education is a national, professional, non-profit making Society registered under the Societies Registration Act of 1860. First started in 1941 as the Association of Principals of Technical Institutions (APTI), it was converted into "Indian Society for Technical Education" in 1968 with a view to enlarge its activities to advance the cause of technological education. The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organisations. Being the only national organisation of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of the Union Government. The Ministry of Human Resource Development, CTE/DST/MIT/State Govts, are well associated with the ISTE for programmes relating to technical education.

IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.

SAEINDIA is India's leading resource for mobility technology. As an individual member driven society of mobility practitioners the ownership of SAEINDIA wrests with its members who are individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.

SAEINDIA is an affiliate society of SAE International registered in India as an Indian nonprofit engineering and scientific society dedicated to the advancement of Mobility Industry in India.

### **Practice:**

The Professional bodies of MRCET Student Branch which was dormant for long saw a new light with the appointment of the newly elected Executive Committee. The Executive Committee has since then swung into complete action and energized the body and soul of the Student Branch with several technical, non-technical events apart from the association activities. The dedicated efforts and commitment from the Executive Committee and the Student Branch members has brought a new life in the student organization. The MRCET Student Branch has walked a long way towards attainment of its purpose and has lived up to its objectives this year. Thanks to the excellent response from the students and faculty of different departments, MRCET's has allocated a dedicated time for Student Profession body Activities to give all students, irrespective of their membership the opportunity of discovering the best engineer they can be and the best work they can do. The MRCET SB's goal remains to empower the technocrats with great opportunities to develop their talent and equip budding engineers with the necessary skills, experience, exposure, leadership, knowledge and entrepreneurship. MRCET has forged strategic partnerships that focus on one or straddle multiple areas through focused efforts on sustained industry engagement over the years.

### **Evidence of Success:**

This year the MRCET Student Branch has successfully conducted over 60 events including 20+ technical events, 15+ non-technical events and nearly 25 IEEE, 15 ISTE and 5 SAEIndia SB Executive Committee's Administrative activities. The IEEE Student Branch at MRCET

has inspired Innovation, Creativity and Motivation, thus has influenced the life of many students this year.

With the same motto and with extra vigor, the MRCET SB hopes to bring in even more students with many more activities for the upcoming years. The Student Branch hope to become an active member in the IEEE Hyderabad Section.

The ISTE conducts and sponsors technical meetings, conferences, symposia, and exhibitions all over India, publishes technical journals and provides continuing education as well as career advancement opportunities to its members.

**Problems Encountered:**

- Bringing people across campuses together to be able to see the value and significance of the proposed initiative, more so since it was a high-cost proposition.
- Bringing down the costs and time without compromising onto the effective quality of the outcome by the way of careful design and implementation choices.

**Resources Required:**

- Participation and sustained commitment and dedication of faculty members
- Active Student Participation
- Monetary Resources

Metric No.	Key Indicator - 7.3 Institutional Distinctiveness
7.3.1  QM	<p><i>Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words</i></p> <p>Provide web link to:</p> <ul style="list-style-type: none"> <li>• Appropriate web in the Institutional website</li> </ul>

**Faculty and Student Involvement in Innovation and Research**

MRCET being a research and innovation driven institute, encourages students towards research and innovation practices. Apart from Doctorate & PG, UG students are also encouraged and given opportunity to get involved in research efforts. Non-teaching credit courses like B.Tech Major Projects and M.Tech Dissertation are made research driven and a number of scientific papers and patents have come out of this work as an outcome. Beside this, there is a credit course by name Research Methodology (2 credit Course) which is intended for Advanced Learners and for those students who have interest in research and innovation. Research Methodology course is a research driven course open to both UG and PG students. In this course, students are given a research problem on which they work for one to two semesters with the possibility of a publication, patent, design or technology. The student is required to present the body of work in an objective report and demonstration thereby enabling their critical thinking abilities in problem solving.

**Research Methodology**

During the course, the student will learn how to:

- ❖ Develop a research proposal
- ❖ Carry out a literature search and write a critical state-of-art review
- ❖ Select suitable research methods and integrate them within a research methodology
- ❖ Carry out the research processes
- ❖ Analyze results critically
- ❖ Write-up the body of work as a technical report

## Outcomes:

These courses provide an opportunity to pursue research in a topic within the broad area of the student's interest.

- ❖ Undertaking the course will enable the student to:
- ❖ Investigate in depth a problem of scientific relevance
- ❖ Survey recent research in a chosen topic
- ❖ Acquaint with research methods applicable to the topic
- ❖ Organize and carry out an independent study
- ❖ Develop writing and presentation skills for scientific communication

In the last few semesters that we had introduced this course to our UG and PG student, the outcomes of these courses were significant and a good number of indexed research papers, patents and new technologies evolved from this course.

It was also found that student who took this course had published good scientific papers which helped them to get R&D jobs, MS and PhD admission with scholarship in prestigious universities.

Also, in recent past, students worked on research problems floated with some of the foreign collaborators, have achieved significant success resulting in joint-authored scientific papers with authors from USA, U.K., Canada, China, Spain, Taiwan, Australia, Russia, Germany, Czech Republic, etc. UG and PG students have published more than 850 SCOPUS indexed publications and filed 70 patents in last 5 years from these efforts.

## MRCET ACCOMPLISHMENTS

- ❖ Autonomous Institution, UGC, Govt. of India.
- ❖ Accredited by NBA, AICTE, New Delhi.
- ❖ Accredited by NAAC with 'A' Grade, UGC, Govt. of India.
- ❖ ISO 9001:2015 Certified Institution.
- ❖ 2(f) & 12(B) Recognition, UGC, Govt. of India.
- ❖ NSS Unit recognized by JNTUH, Hyderabad.
- ❖ Research Centre Status, JNTUH, Hyderabad
- ❖ AICTE-MHRD Institution Innovation Council, Ministry of HRD, Govt. of India.
- ❖ Industry Institute Partnership Cell (IIPC)-EDC.
- ❖ Recognition of Scientific Industrial Research Organizations (SIROs) by Govt. of India.
- ❖ MRCET is a life member of NHRD Network
- ❖ CISCO International Certification Authorized Centre.
- ❖ Approved to admit Foreign Students/PIO's
- ❖ Nodal Center: IIT – Bombay/Kharagpur for Technology Transfer
- ❖ Springer : International Conferences
- ❖ NASSCOM Nodal Center for NAC-Test Assessment
- ❖ Business Incubation Centre – MSME, Govt. of India



- ❖ Global Education and Career Counseling Centre

#### **TECHNOLOGY INITIATIVES**

- ❖ The College has taken initiative for conducting CCNA certification programs in collaboration with M/s. CISCO Systems Inc.,
- ❖ The College focuses on Value added programs for initiating Certification Courses in MICROSOFT, DBMS, JAVA, PRO-E, EMBEDDED 'C', CATIA, RTOS and Airline/Airport Management and Business Management.
- ❖ The College has taken initiative for conducting training programme on Business English Certification Course for Engineering/MBA students leading to Business English Certificate, Cambridge University, London.
- ❖ Employment Enhancement Training Programme for Final Year students of Engineering/MBA
- ❖ Programme on “Promoting Human Excellence” for Engineering / MBA students in association with Vivekananda Institute of Human Excellence, Rama Krishna Math Hyderabad.
- ❖ Motivational/Inspirational Lectures from Reputed Industry and Organizations.
- ❖ Video Lectures from IIT's and reputed International Universities for advanced courses to explore latest technologies

#### **PROFESSIONAL SKILL DEVELOPMENT INITIATIVES**

- ❖ AMCAT Training partners
- ❖ CoCubes Training partners
- ❖ Robotics Training and its applications.
- ❖ Soft Skills and Technological Skills Training for Employability.
- ❖ Value Added Certification Training Programmes:
  - ❖ CISCO Certification
  - ❖ Microsoft Technology Training & Certification
  - ❖ JAVA Certification
  - ❖ Business English Certification (BEC)
  - ❖ Oxford Achiever's Certification.
  - ❖ Oracle Academic Partner for JAVA Certification
  - ❖ Business English Certification (BEC) Centre, University of Cambridge, U.K.
  - ❖ Oxford Achiever's Certification, Oxford University Press, India.

#### **TECHNOLOGY TRAINING AND CERTIFICATION**

- ❖ Machine Learning Training and Certification
- ❖ Python Training and Certification

- ❖ ServiceNow Training and Certification
- ❖ PEGA Training and Certification
- ❖ Oxford Achiever's Training and Certification
- ❖ Career guidance and counseling for higher education in India and abroad.
- ❖ JAVA Training and Certification Microsoft Development Application
- ❖ Cloud Computing Technology Training and Certification
- ❖ Big Data Analytics Training and Certification
- ❖ CISCO Networking Training and Certification
- ❖ CATIA/CAD Training and Certification
- ❖ Certification course on 3D Printing

### **Future Plans of action for next academic year (500 words)**

Malla Reddy College of Engineering & Technology (MRCET) is a constituent College of Malla Reddy Group of Institutions (MRGI) established in 2004.

The College offers Engineering courses (B.Tech.) in ECE, CSE, AE, MECH and IT disciplines and Post Graduate (M.Tech.) courses in ECE, CSE, MECH and AE specializations in addition to MBA programmes. The College campus with its arboriculture and horticulture is situated away from the hustle and bustle of the city provides a serene and tranquil atmosphere, which is conducive to both teaching and learning processes.

### **Approvals:**

- ❖ Autonomous Institution, UGC, Govt.of INDIA.
- ❖ Approved by AICTE, Govt. of India, New Delhi.
- ❖ Permanently Affiliated to JNTUH, Hyderabad.
- ❖ Accredited by NBA, New Delhi, India.
- ❖ Accredited by NAAC with A-GRADE, UGC, New Delhi.
- ❖ ISO 9001:2015 Certified Institution.
- ❖ Approved by Govt. of Telangana, India.
- ❖ UGC 2f & 12(B) recognized institution, UGC New Delhi

### **Special Achievements:**

- ❖ Autonomous Institution, UGC, Govt.of INDIA.
- ❖ Accredited by NBA, AICTE, New Delhi.

- ❖ Accredited by NAAC-A Grade, UGC, Govt. of India.
- ❖ ISO 9001:2015 Certified Institution.
- ❖ 2(f) & 12(B) Recognition, UGC, Govt. of India.
- ❖ NSS Unit recognized by JNTUH, Hyderabad.
- ❖ Research Centre Status, JNTUH, Hyderabad
- ❖ MoU with NRDC, Govt. of India.
- ❖ AICTE-MHRD Institution Innovation Council, Ministry of HRD, Govt. of India.
- ❖ Industry Institute Partnership Cell (IIPC).
- ❖ Recognition of Scientific Industrial Research Organizations (SIROs) by Govt. of India.
- ❖ MRCET is a life member of NHRD Network.
- ❖ CISCO International Certification Authorized Centre.
- ❖ Approved to admit Foreign Students/PIO's
- ❖ Nodal Center: IIT - Bombay/Kharagpur for Technology Transfer
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- ❖ Business Incubation Centre - MSME, Govt. of India
- ❖ Global Education and Career Counseling Centre.

### **FUTURE PLANS OF THIS INSTITUTE**

- ❖ **To Start PhD Programmes:** Considering the demand and the growth of technical education in this region, this institute has planned to start PhD Programmes in all eligible departments by seeking permission from affiliated university, JNTUH, Hyderabad.
- ❖ **To Establish Technology Business Incubation Centre:** At present, industrial growth is satisfactory in Hyderabad region and in future it will be accelerated. Therefore, there is considerable scope for innovations and consultancy from the nearby industries. Therefore, it is planned to establish TBI Centre with all latest and hi-tech equipment to fulfil the requirement of nearby industries in respect of testing, calibration, consultancy, research, etc.
- ❖ **To be UGC-CPE Institute:** The institute is UGC Autonomous with NAAC and NBA Tier-I accreditation. Based on the accomplishments and achievements of the institute, it is planning to apply for UGC-CPE Scheme
- ❖ To participate in National Wide Rankings conducted by National Survey Organizations.

Name Dr S Srinivasa Rao

*S. Srinivasa Rao*

Signature of the Director, IQAC

Name Dr VSK Reddy

*VSK Reddy*

Signature of the Chairperson, IQAC



**PRINCIPAL**  
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