



## YEARLY STATUS REPORT - 2020-2021

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	Dr. MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY
• Name of the Head of the institution	Dr. A. RATHINAVELU
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04259236030
• Alternate phone No.	04259236040
• Mobile No. (Principal)	9842304211
• Registered e-mail ID (Principal)	principal@drmcet.ac.in
• Address	Udumalai Road, M.K.Patti Post,Pollachi, Coimbatore, Tamil Nadu 642003
• City/Town	Coimbatore
• State/UT	Tamil Nadu
• Pin Code	642003
<b>2.Institutional status</b>	
• Autonomous Status (Provide the date of conferment of Autonomy)	23/03/2011
• Type of Institution	Co-education
• Location	Rural

• Financial Status	<b>Self-financing</b>
• Name of the IQAC Co-ordinator/Director	<b>Dr.P.A.Periasamy</b>
• Phone No.	<b>04259236030</b>
• Mobile No:	<b>7373227754</b>
• IQAC e-mail ID	<b>iqac@drmcet.ac.in</b>
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="http://mcet.in/?page_id=3453">http://mcet.in/?page_id=3453</a>
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="http://mcet.in/?examcell=circulars">http://mcet.in/?examcell=circulars</a>

**5.Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.61</b>	<b>2013</b>	<b>05/01/2013</b>	<b>04/01/2018</b>
<b>Cycle 2</b>	<b>A++</b>	<b>3.53</b>	<b>2018</b>	<b>16/08/2018</b>	<b>15/08/2023</b>

**6.Date of Establishment of IQAC****05/06/2012****7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
<b>Dr.A.Senthil kumar, EEE</b>	<b>MODROBS</b>	<b>AICTE, NEW DELHI</b>	<b>04/03/2021</b>	<b>1600000</b>
<b>Dr.S.Ramakrishnan, IT</b>	<b>Research Grant</b>	<b>CSIR - COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH,</b>	<b>17/12/2020</b>	<b>1400833</b>

		NEW DELHI		
Dr. M. Senthilarasi ECE	Research Project	DST (DEPARTMENT OF SCIENCE & TECHNOLOGY), NEW DELHI	17/07/2020	1437344
Dr.M.Selvakumar, Automobile	Grant for Research Project	EDII (ENTREP RENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE), CHENNAI	16/04/2021	250000
Dr.M.Selvakumar, Automobile	Grant for Research Project	EDII (ENTREP RENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE), CHENNAI	14/12/2020	250000
Dr.M.Selvakumar, Automobile	Grant for Research Project	EDII (ENTREP RENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE), CHENNAI	18/02/2021	250000
Dr.M.Selvakumar, Automobile	Minor Research Project	UGC (UNIVERSITY GRANTS COMMISSION)	28/09/2020	385000
Dr.Rama Thirumurugan, Mechanical	Grant for Research Project	EDII (ENTREP RENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE), CHENNAI	16/04/2021	282000

### 8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the

[View File](#)

composition of the IQAC by the HEI		
<b>9.No. of IQAC meetings held during the year</b>	<b>4</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10.Did IQAC receive funding from any funding agency to support its activities during the year?</b>	<b>No</b>	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11.Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
Part of PARAMARSH Scheme, our institution played the role of Mentor to the assigned mentee institutions for their NAAC SSR compilation. Corresponding report were submitted within the stipulated time.		
IQAC organized a webinar on " National Education Policy - 2020"on 25.5.2021 to all the faculty members of the institution with Dr. G. Janardhanan from NITTTR, Chennai as Resource person		
E-Learning team was constituted for online teaching guidance and monitoring the quality of content delivery during the pandemic situation during AY2020-2021		
<b>12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:</b>		

Plan of Action	Achievements/Outcomes				
Submission of AQAR for the year 2019 -20	AQAR for the academic year 2019-20 was submitted on 09.01.2021				
Anna University Affiliation process	The details for Anna University affiliation were submitted and the affiliation order was received				
AICTE Approval process	Extension of Approval was received from AICTE				
Submission of Mandatory Disclosure	Mandatory disclosure of MCET was uploaded in college website as per the new format prescribed by AICTE				
AICTE-CII Survey details	Results yet to be received				
Number of Class Committee Meetings per class per academic year - planned 6	Number of Class Committee Meetings per class per academic year - conducted 6				
Number of Board of Studies Meetings per department per academic year - planned 2	Number of Board of Studies Meetings per department per academic year - conducted 2				
NIRF 2021 Ranking	Participated in NIRF 2021				
<b>13. Was the AQAR placed before the statutory body?</b>	<b>Yes</b>				
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>					
<table border="1"> <thead> <tr> <th>Name of the statutory body</th> <th>Date of meeting(s)</th> </tr> </thead> <tbody> <tr> <td>Governing Council Meeting</td> <td>07/10/2021</td> </tr> </tbody> </table>		Name of the statutory body	Date of meeting(s)	Governing Council Meeting	07/10/2021
Name of the statutory body	Date of meeting(s)				
Governing Council Meeting	07/10/2021				
<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>				
<ul style="list-style-type: none"> <li>Year</li> </ul>					

Year	Date of Submission
15/02/2022	15/02/2022

### 15. Multidisciplinary / interdisciplinary

The curriculum is evolved based on the requirements; the current offerings are benchmarked against the statutory requirements. The regulations of the programs of the institution have been so designed to implement Choice Based Credit System (CBCS). Professional electives and open electives are offered in the curriculum that enables the students to specialize towards specific requirements and in emerging areas. To inculcate multidisciplinary knowledge to students, open elective courses are offered by various department from V semester to VII semesters of curriculum. Further the institute has made the curriculum and syllabi relevant to emerging areas and industry needs using the Outcome Based Education (OBE) model. It maintains enough flexibility to offer skills that are of immediate need of industries.

### 16. Academic bank of credits (ABC):

Academic Bank of Credits has been established on the lines of the National Academic Depository (NAD), in the sense, NAD is the backbone of ABC, where the students' academic data are held and academic awards are stored (i.e. storehouse of academic awards). Despite the fact that ABC enables students to register or commence credit transfer, the final outcomes of credit redemption and issuance of certificates, as well as the compilation of award records, are administered by academic institutions via the NAD Platform. Our students are encouraged to register in NAD since 2019.

### 17. Skill development:

The curriculum is so designed to enhance the professional skill attributes of students, as per the recommendation of AICTE, Professional skills courses were introduced in align with the graduate attributes specified by NBA. To enhance the practical skill for students and to familiar with latest developments in industry, one credit courses were also introduced. Students are encouraged to go for Internship / skill development training by 2 -2/4 - 8 /16 weeks scheme to learn about various practices followed in industry. In addition to that skill development training programs are also offered by Centre of Excellence and also by department to inculcate practical skill for students. The centre for innovation, Business Incubation and Entrepreneurship helps to inculcate students' confidence for converting their idea into commercially successful

models. Faculty members and mentors support students in completion of prototype model and commercially viable product. Further the curriculum and syllabi is well designed to address the challenges of emerging areas and also accomplish the requirements of industry using the Outcome Based Education (OBE) model.

#### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

The institute has designed and developed the Professional Skills courses that focus broadly on ethical and morality responsibility; importance of relationships, reaching out to people and physical, mental and social wellbeing.

These courses have been designed with the help of domain experts and are being offered to all students at various semesters.

The PS courses are:

1. Wellness for Students
2. Universal Human Values 2: Understanding Harmony
3. Teamness and interpersonal skills
4. Campus to Corporate

The courses are offered through initial orientation workshops and followed by weekly review classes for self-reflection of students on what they have learned and applied.

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

The institution has adopted the outcome based educational model. All the programs of the institution design, develop and implement curricula based on the model. Inputs from all key stakeholders of the institution are collected using periodic surveys. These inputs address local, national, regional and global developmental needs. Graduate attributes prescribed by Washington accord are considered in the program outcomes (POs) and program specific outcomes (PSOs). Courses under various categories as recommended by statutory bodies such as AICTE and the affiliating university, Anna University are included in the curriculum. The courses are selected such that cumulatively they will be able to address the POs and PSOs of the respective program. Courses and activities are designed, developed and implemented to address the requirements of POs and PSOs. The relevance is also checked using course articulation and program articulation matrices. Course outcomes are further developed into the enabling outcomes and deployed in the teaching learning process of the institution. Lesson plans indicate the delivery based on the

enabling outcomes. Hence the curricula, teaching learning process and its outputs are made relevant to local, national, regional and global developmental needs.

## 20.Distance education/online education:

Dr. Mahalingam College of Engineering and Technology, Pollachi-642003 is an autonomous Institution affiliated to Anna University Chennai. And the institute offer programmes in the field of Engineering and Technology. So Distance education/online education for technical courses are inappropriate. But the institute facilitate to conduct courses in online mode within the institute using the following facilities.

Facilities for conduct of Classes/ courses in online mode (Theory & Practical)

S.No	Platform/Software Used	Purpose
1.	MS Teams	<ul style="list-style-type: none"> <li>• Course handling faculty create t</li> <li>• Adding In-quizzes, Subtitles/Cap</li> <li>• Uploading contents in the form o</li> <li>• Uploading Video in form of YouTu</li> <li>• Formative assessment is conducte</li> <li>• Assignment is submitted with Rub</li> <li>• CCET Exam is conducted by using</li> <li>• Live Session is Conducted by usi</li> <li>• Conducting Project review throug</li> </ul>
2	Elearning@mcet Moodle	Conducting theory Courses (Uploading i formative assessment, Assignment submi
3	Elearning@mcet Moodle (Virtual lab)	Conducting programming Labs (C, C++, J
4.	OBS Software	Creating Video Lectures
5.	Openshot	Editing Video lectures

## Extended Profile

### 1.Programme

1.1

20

Number of programmes offered during the year:



File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**2.Student**2.1 **3299**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 **986**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 **3558**

Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

**3.Academic**3.1 **859**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2 **249**

Number of full-time teachers during the year:

<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	<b>20</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>2.Student</b>	
2.1 Total number of students during the year:	<b>3299</b>
File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>
2.2 Number of outgoing / final year students during the year:	<b>986</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	<b>3558</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>3.Academic</b>	
3.1 Number of courses in all programmes during the year:	<b>859</b>
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

3.2	249
Number of full-time teachers during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3	249
Number of sanctioned posts for the year:	
<b>4.Institution</b>	
4.1	909
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	
4.2	78
Total number of Classrooms and Seminar halls	
4.3	1426
Total number of computers on campus for academic purposes	
4.4	1258.279
Total expenditure, excluding salary, during the year (INR in Lakhs):	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institution has adopted the outcome based educational model. All the programs of the institution design, develop and implement curricula based on the model. Inputs from all key stakeholders of the institution are collected using periodic surveys. These inputs address local, national, regional and global developmental needs. Graduate attributes prescribed by Washington accord are considered in the program outcomes (POs) and program specific outcomes (PSOs)

design. Courses under various categories as recommended by statutory bodies such as AICTE and the affiliating university, Anna University are included in the curriculum. The courses are selected such that cumulatively they will be able to address the POs and PSOs of the respective program. Course outcomes (COs) are designed and developed to address the requirements of POs and PSOs. The relevance is also checked using course articulation and program articulation matrices. Course outcomes are further developed into the enabling outcomes and faculty members teaching courses, deploy the content relevant to these outcomes in the teaching learning process of the institution. Hence the curricula, teaching learning process and its outputs are made relevant to local, national, regional and global developmental needs.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	<a href="http://mcet.in/?page_id=6688">http://mcet.in/?page_id=6688</a>

### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

17

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

625

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<a href="#">View File</a>
Any additional information	No File Uploaded

## 1.2 - Academic Flexibility

### 1.2.1 - Number of new courses introduced across all programmes offered during the year

45

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

### 1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

20

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

## 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

As a part of curriculum to all UG programmes, during induction

programme for first year students (2020-24batch), the orientation on Universal Human Values was offered to allfirst-yearstudents. Each section of students was given four modules and learning had been made reflective.Wellness for Students a one credit was offered to allfirst-yearstudents to enhance the physical and mental wellness which was in the part of curriculum. Environmental Science is a mandatory course offered to allfirst-yearstudentswhich enhance the environment and its sustainability. Universal human Values: Understanding the harmony a 3 credited course offered to all second year UG students(2019-2023 batch),whichdealin detail about the harmony of self, with family, with society and with nature.Among teachingfacultyneary 35% (87/249) of the faculty members are women and26% (23/87) of the women faculty are Ph. D holders actively involved in research, and13% (11/87) of the women faculty are pursuing their research programme. Women faculty members are regularly participating in seminar, conference, workshops and faculty development programmes. Women faculty members are involved in the organizational management of the institution in several levels.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

62

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

### 1.3.3 - Number of students enrolled in the courses under 1.3.2 above

5652

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects****3216**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.4 - Feedback System**

**1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni**

**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://mcet.in/?examcell=downloads">https://mcet.in/?examcell=downloads</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**1.4.2 - The feedback system of the Institution comprises the following**

**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="http://mcet.in/wp-content/uploads/IOAC/2021/Student Satisfaction Survey AY2020-2021 V2.pdf">http://mcet.in/wp-content/uploads/IOAC/2021/Student Satisfaction Survey AY2020-2021 V2.pdf</a>
Any additional information	<a href="#">View File</a>

TEACHING-LEARNING AND EVALUATION	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment of Students</b>	
<b>2.1.1.1 - Number of students admitted (year-wise) during the year</b>	
732	
File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>
<b>2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)</b>	
705	
File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.	
<p>The students' learning levels are assessed based on their academic performance. Advanced learners are encouraged to study additional elective courses under fast-track mode. The Centers of Excellences are providing latest skill development courses including both hardware and software to provide industry exposure to learners. As part of the activities of the department associations and clubs, guest lectures, seminars, webinars, conferences, and quiz programs are organized to motivate the students and enrich their knowledge in the latest technologies. Leading industry experts share their knowledge with the students during industry conclaves. Conclaves also feature young entrepreneur to promote entrepreneurship and alumni sharing their successes stories. These are used to motivate diverse categories of students. Course based intervention are also carried out by respective faculty members to address diversity in learning capacities. Students are encouraged to take up internship in industry or skill development courses based on academic</p>	



performance levels.

Structured bridge courses for first year students and lateral entry students before the commencement of regular classes are offered to fill the gap between entry level academic achievements and demands of the engineering curriculum.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://mcet.in/?page_id=54">http://mcet.in/?page_id=54</a>

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/06/2020	3299	249

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

The college is providing well-planned, supervised and assessed experiential learning through practical / lab courses. It is further extended as project works and internship, which is focusing on interdisciplinary learning, intellectual skills, leadership and teamwork addressing non-technical graduate attributes of Washington Accord. During the experiential learning, the students are actively engaged in investigating, experimenting, being curious, solving problems, assuming responsibility and is challenged to take initiative, make decisions and be accountable for results.

Students are encouraged to learn continuously by participating in contests and taking courses offered by NPTEL - SWAYAM, taking value added courses through the center of excellences in campus. These centers of excellences have been established collaborating with leading companies inside the campus. It provides an opportunity for students to gain knowledge and skills in emerging

areas. Apart from this, the college is providing open elective courses for motivating interdisciplinary learning.

The curriculum is developed to integrate problem solving methodology by providing tutorial sessions for analytical courses. The curriculum also encourages use of problem solving tools and techniques in the assignments of select courses and final year projects. During this process, the faculty members act as facilitators.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

#### 1. Tablet based Learning in class room

The 8" Android tablets were given to all Students to enable them to experience the tablet-based learning as part of their educational process. The tablet is used for conducting effective teaching learning process such as Sharing of Study materials, videos tutorials. Automatic attendance capturing, Assessment through pulse questions, Buzzer quiz, White board.

#### 2. MS Teams Platform for Conducting online classes

- Due to Covid pandemic lock down, Online classes are conducted through MS Teams from AY2020-21.
- Prepared E-content in the form of PPT, pdf, video, animations, workbook and handouts and uploaded.
- Course delivery through MS teams as live sessions or Recorded videos.
- Conducting 60% live sessions and 40% video sessions for each course and Attendance is maintained.
- Doubt Clarification Sessions (DCS) are conducted at least once in a week.
- All Formative Assessments, Quizzes and Internal examinations are conducted through MS forms.
- End semester examinations are conducted using e\_Proctoring portal.
- Collected Periodic feedback from students and faculty

members through online.

3. Laboratory courses related to programming languages such as C, C++, Java, Python etc. were conducted using e-Learning@mcet Moodle with internal server hosted

4. ICT Tools used for creating/Editing Videos

- OBS Studio
- OpenShot Video Editor
- Handbrake

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="http://mcet.in/?page_id=8294#tab-1639859540434-2-0">http://mcet.in/?page_id=8294#tab-1639859540434-2-0</a>
Upload any additional information	No File Uploaded

### 2.3.3 - Ratio of students to mentor for academic and other related issues

#### 2.3.3.1 - Number of mentors

249

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

### 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

#### 1. Academic Calendar

The Institution Academic Coordination Team (ACT) will collect the plan of action from Department and Section heads like Placement cell and office of Controller of Examination and put forth in the Academic Committee and prepares a well-planned Academic calendar. It is printed and displayed in the notice boards, and kept on the college website. The calendar, made available to the students before the commencement of classwork, includes:

- Reopening and last Lecture day of instruction, schedules of Continuous Internal Assessment and End semester Examinations, preparation holidays for final examinations, and vacation periods.
- In case of any unexpected situations which are beyond the control of the institution, necessary change is made by the authorities and the same is displayed in notice boards and website.

## 2. Teaching Plan

Heads of the departments conduct meeting with their respective faculty well in-advance of commencement of the semester course work, and allocate Courses. A unit-wise teaching plan of the course content, spread over the allotted lecture hours, is prepared to ensure a uniform pace of teaching. Course-coverage is monitored by the concerned HOD and deviations if any, are clarified with the concerned faculty and special class work is planned.

The academic plan is structured in accordance with the needs of Outcome Based Education prescribed by National Board of Accreditation.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full-time teachers against sanctioned posts during the year

249

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

83

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1720

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.5 - Evaluation Process and Reforms

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

15,66

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

47

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

The autonomous examination system of the institution is ably supported by a strong IT infrastructure. The institution has developed in-house IT tools for the management of the entire examination system commencing from course registration and ending with publication of results. A third-party IT tool is also used along with the in-house IT tool to handle select operations of examination system such as results processing. The processes and procedure of the examination system are documented, reviewed by committees, and approved by competent authority. Improvements in processes and procedure are periodically introduced and approved by statutory bodies. The institution follows continuous comprehensive evaluation system with absolute grading and CGPA based reporting of student performance. The In-house IT tool is used in the management of course registration, attendance recording, and entry of marks, calculation of internal marks, CO wise attainment calculations, collection and reporting of faculty feedback. It interfaces with a third-party tool housed in a dedicated private server for processing of end semester results, publication of results and archiving of marks and grades. Co-creation of question papers, using industrial experts for assessments are some of the important practices. The institution is also well equipped to conduct proctored examination.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution. The college follows a systematic approach in the development of program outcomes and course outcomes. They can be found in the curriculum and syllabus book. It is developed by the board of studies of respective departments and approved by the academic council of the department. The program educational objectives PEOs, program outcomes (POs), program specific outcomes (PSOs) are developed in conjunction with graduate attributes indicated by National Board of Accreditation (NBA). Course outcomes (COs) required for achieving the POs and PSOs are developed for all courses in the curriculum. COs vary in number based on the type of course. A three-credit theory course normally has around FIVE course outcomes. Course outcomes are further converted into enabling outcomes by respective course faculty. While the design is top down, the delivery happens bottom up in courses. Course content and sessions explicitly state all the relevant outcomes being addressed. The lesson plan features a detailed account of how the outcomes are linked and being addressed in the course.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	Nil

#### 2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

All programs have POs, PSOs and COs, developed and specified in program curriculum and syllabus book. Program articulation matrix and course articulation matrix are developed for all programs. Teaching learning methods and assessments like tests, quiz's, projects etc. are aligned to outcomes. Questions in assessments are set at various blooms levels of the outcomes. Questions pertain to learning outcomes or specific outcomes depending on the type of assessment and nature of course. Wherever possible, marks scored by individual students in each question of various assessments are captured. Marks/ grades of each student are used in calculation of course wise CO attainment. Direct and In-direct methods are used for both courses and programs for calculating attainments. CO attainment results in PO and PSO attainment of programs with the help of mapping in the course and program

articulation matrix. The steps and procedure to be followed are specified in a quality system manual. Four level Likert's scale is used for reporting and analyzing attainments. Four levels in the Likert's scale corresponds to scores 0-3. Targets with respect to courses and program attainments scores are fixed and monitored periodically for attainment and corrective action.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

### 2.6.3 - Pass Percentage of students

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

971

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

[http://mcet.in/wp-content/uploads/IOAC/2021/Student\\_Satisfaction\\_Survey\\_AY2020-2021\\_V2.pdf](http://mcet.in/wp-content/uploads/IOAC/2021/Student_Satisfaction_Survey_AY2020-2021_V2.pdf)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

A Centre for Research and Development has been established in the institute which has the following specific objectives:



- Research and Development center is functioning to coordinate Research and development activities of the institution, guided by the R&D Advisory Committee, headed by the Principal.
- The R & D cell is responsible to formulate various process, procedures, and methodologies for research activities.
- R & D cell along with R & D coordinators from various departments coordinates routine research activities of the institution.

The research council meeting is conducted every year.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Uploaded
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://mcet.in/?page_id=937">https://mcet.in/?page_id=937</a>
Any additional information	No File Uploaded

### 3.1.2 - The institution provides seed money to its teachers for research

#### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

**NIL**

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	No File Uploaded
Any additional information	No File Uploaded

**3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year**

6

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.2 - Resource Mobilization for Research****3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)**

30.12

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	No File Uploaded
Any additional information	No File Uploaded

**3.2.2 - Number of teachers having research projects during the year**

13

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides**

37

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	No File Uploaded
Institutional data in Prescribed format	No File Uploaded

### 3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

5

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

#### R&D

A team consisting of faculty members from the department, analyses the research work proposed by the individual faculty or faculty members. The team validates the proposal from research perspective with respect to contemporary value addition. The internal committee members are identified by the HOD and R&D coordinators of the concerned department.

#### CIBIE

- Five incubatees joined CIBIE this year: Technitto, J K Coir, Terrain, SKM, Suresh KM.
- Received a total of 7.5 lakhs grant from EDII for three of our incubatees Mayon, SKM, J K Coir.
- Three external experts were formally added on 04/02/21 to the panel of mentors to guide incubatees in the field of Electric Vehicle, Farm Equipments, and IT field
- CIBIE has organised 24 programs to promote entrepreneurship

including a ten-day MSME Sponsored workshop for 25 students.

- CIBIE signed up MoU with Adfactor PR a Business Consultant to guide the incubatees on Go To Market Strategy.
- CIBIE renewed its subscription with Indian Startup & Business Incubators Association (ISBA).
- CIBIE had organised screening process through Forge Forward to enrol 12 students into a 20-week Innovation Engineer Course called Protosem.
- CIBIE has applied for i-Technical Business Incuabtor (iTBI) this year, which is a Central Govt. Scheme.
- One of CIBIE's Incubatees Infrogo wanted to move out of the Incubation Centre to become independent on the date of 11/12/2020.
- CIBIE currently has 11 Active incubatees out of which 4 of them are operating inside the campus and 7 as virtual incubatees.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="http://mcet.in/?page_id=937">mcet.in/?page_id=937</a>

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

127

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4 - Research Publications and Awards

**3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software**

C. Any 2 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

#### 3.4.2.1 - Number of PhD students registered during the year

11

File Description	Documents
URL to the research page on HEI website	<a href="http://mcet.in/?page_id=937">mcet.in/?page_id=937</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

83

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

50

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

#### 3.4.5.1 - Total number of Citations in Scopus during the year

111

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

#### 3.4.6.1 - h-index of Scopus during the year

6

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5 - Consultancy

#### 3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

25.59

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

### 3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

4.53

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

As a part of curriculum to all UG programmes, during induction programme for first year students (2020-24 batch), the orientation on Universal Human Values was offered to all first-year students. Each section of students was given four modules and learning had been made reflective. Wellness for Students a one credit was offered to all first-year students to enhance the physical and mental wellness which was in the part of curriculum. Environmental Science is a mandatory course offered to all first-year students which enhance the environment and its sustainability. Universal human Values: Understanding the harmony a 3 credited course offered to all second year UG students (2019-2023 batch), which

deal in detail about the harmony of self, with family, with society and with nature.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

**3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year**

8

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

**3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)**

4

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year**

77

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7 - Collaboration**

**3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/**



**student exchange/ internship/ on-the-job training/ project work****391**

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)****18**

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The institution is provided with 64 class rooms with LCD and Wi-Fi/LAN facilities and 8 air-conditioned seminar halls with ICT facilities. The institution is provided with modern with latest equipment and required software. 18 Centres of excellence are established by the College in collaboration with industries to provide ample opportunity for the students and staff to comprehend the latest industry practice and upgrade their knowledge through industry relevant projects. MCET has been recognized as the Remote center for IIT Bombay and Kharagpur, being responsible for coordinating the workshops, seminars and live lectures.

The Central Library has good collection of books, journals, CDs and DVDs covering various branches of Engineering, Technology, Science and Humanities and other related fields. In addition the

library has e-resources facility to access DELNET and NDL. MCET currently provides 300Mbps internet connectivity through Reliance ISP provider. All the three blocks are Wi-Fi enabled.

Centre for Innovation, Business Incubation and Entrepreneurship (CIBIE) nurtures student innovations by providing infrastructure, Incubation and creates opportunities for start-ups to kindle their entrepreneurial passion.

A well-furnished hostel with accommodation of 1410 men and 714 women students separately. Single, double and multi member rooms are available in the hostel. College has an exclusive transport department, which takes care of 50 vehicles including buses, vans, cars for the use of students and faculty. Dispensary, Bank, book depot, two cafeterias, post office and ticket booking office available inside the campus for student use. Excellent sports facilities are also available inside the campus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="http://mcet.in/?page_id=4480">http://mcet.in/?page_id=4480</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

#### SPORTS AND GAMES FACILITIES

The college has 12.5 acres playground for outdoor sports like Athletics, Cricket, Hockey, Football, Tennis, Volley ball, Basketball, etc. Also an indoor stadium with shuttle badminton court, table tennis, chess, and carom is available. A fulltime Physical director works for the physical fitness of students and sports activities. College teams takes part in Anna University Zonal level competitions and other intercollegiate competitions. Sports event competitions are conducted in inter departmental level in an academic year and the winners and participants are awarded in Annual Sports Day celebration.

#### GYM & Fitness Centre

Modern Gym offers fun and safe learning environment that gives weight training, strengthening and weight loss programmes, etc. High - Quality instructions from energetic, enthusiastic and

proficient coaches make this possible.

### Cultural Activities

The Institution offers a good opportunity for the students to come out with their talents in Dance, Music, Art and Mime. Fine arts club organises various cultural activities to make the students relax, enjoy and balance leisure. Fine arts club has 100 members.

Muthamil Mandram was started in the campus to give moral support to the student community for strengthening their interpersonal skills. Speaking in their native language "Tamil" gives them self confident and to be remember their identity. Events were organized yearly for school students and faculties of MCET to remember their identity. College has a Centenary Centre Auditorium with a capacity of 2000 to conduct cultural and other mega events.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://mcet.in/?physical=facilities">http://mcet.in/?physical=facilities</a>

#### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

78

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

1258.279

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	No File Uploaded

## 4.2 - Library as a Learning Resource

### 4.2.1 - Library is automated using Integrated Library Management System (ILMS)

MCET College central is fully automated with AUTOLIB advanced integrated Library automation management software. AutoLib ILMS 5.1 version was using from 2012 to 2018. The Advanced Edition V7 .1.2 is using from November 2018 in Java platform and The AutoLib - ILMS contains the following modules.

#### 1. Database Management - Cataloguing

- Books, Journal- Issues, Back Volumes
- Non-book materials/ CD, Video/Audio tapes,
- E-Books - Digital Content
- Members, Departments , Courses, Groups
- Authority List- Authors, Publishers, Suppliers, Subjects, Keywords

#### 2. Search(OnlinePublicAccessCatalogue- WEB OPAC):

- To search the database using important fields such as Accession Number, Call Number, Author, Title, Edition, Year, Publisher, Subject, Keywords, Department, Availability, etc.
- To search various databases using browsers on LAN/Intranet environment using WEB servers.

#### 3. Circulation Management - Transaction All types of counter transactions (for all documents types) such as:

- Issue/Renewal /Return/Recall
- Reservation / Reservation Cancel
- Reminders/Overdue receipt/No-due certificate
- Overdue reports (based on many criteria)
- Statistics/Reports for all counter transactions (daily/weekly/monthly/between specific dates)

- 4. Student Gate Entry Register

Electronic Gate Entry system is using for monitor the user entry of students, faculty and others staff members.

- 5. Report Management

Report can generate and print a large number of reports such as:

List of books by author, title, unique titles publisher, supplier, call number, subject, dept., accession number, date, book type and list of journals /Publishers

- 6. Serial Control System -(Journals)

- Creation and maintenance of journal master
- Receipt of issues and entry
- Claiming missing issues/replacement
- Browsing/searching issues
- Bound volumes
- 7. Stock Verification For stock verification of library resources using Barcode Scanner, Data Capturing Unit and generate reports of books such as issued, binding, transferred, available, etc

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://mcet.in/?page_id=849">http://mcet.in/?page_id=849</a>

<b>4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources</b>	<b>A. Any 4 or more of the above</b>
---	--------------------------------------

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

12.84

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

##### 4.2.4.1 - Number of teachers and students using the library per day during the year

144

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

Internet bandwidth- 300Mbps bandwidth

Network Structure Deployed:

- Fibre optic cables - total length 3.5kms
- LAN connectivity for all labs & seminar halls
- Private IP Address maintained for each block
- Provision of Polycom video conference

#### Network Devices Used:

- Cisco ASR 1001X router
- Cisco Firewall -2 no
- FortiGate240D - 1 no
- Network Switch - Quantity - 400nos
- Fibermedia convertor - Quantity - 44nos
- OFC LIU Rack - Quantity- 36nos

#### Wi-Fi Facilities

The following network devices are used in the campus

- Aruba Wi-Fi 205 - 12nos
- Aruba Wi-Fi 215 - 28nos
- POE Switch - 15nos
- Netfoxfirewall &VMWare
- Wi-Fi usage - Anytime (24x7) internet connection available for students, faculty & Guest (as per policy with content filtering rules).

#### Tablet

16class rooms are enabled with smart class setup

Internet facility available for faculty tablet

#### Computers

Total numbers -1426nosin various configurations.

All systems are connected to the LAN

Servers- 15nos

Usage of server -Oracle ,Online test, Tally, Campus Application, Library management, Exam cell application, Campus License Software Servers,

#### Mail and WebServer

- Microsoft office 365 cloud
- Managing staff and student email ID
- Website for MCET
- Website for Alumni

Printer- 177nos

Projector - 154nos fixed in all class rooms

Scanner- 10nos

Camera- 4 numbers

CCTV camera & Recorder- 50+3 numbers

Biometric Device- 6nos

Copier- 19 number

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3299	1426

File Description	Documents
Upload any additional information	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing

A. All four of the above



### System (LCS) Mixing equipments and software for editing

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://mcet.in/?page_id=8294">http://mcet.in/?page_id=8294</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

### 4.4 - Maintenance of Campus Infrastructure

#### 4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1152.77

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

#### Computer and Accessories Maintenance

Due to the large number of computers and networking, a separate team ITES (Information Technology Enabled Services) look after the maintenance of computers and the networking. They maintain the computers and other associated accessories periodically and update the OS (operating system) whenever it is demanded by the department. ITES maintains the break down maintenance form after rectifying the issue raised by the department.

#### Civil Maintenance

The people appointed for maintenance of infrastructure, on daily basis will report to the civil engineer of maintenance wing, any breakages and other maintenance requirements, and civil engineer arranges to get them rectified. Cleanliness & daily maintenance of the interior facility (classrooms, laboratories, library, hallway, and staircase) is done by housekeeping team of the institute under the supervision of the college maintenance engineer. Fire

extinguisher is outsourced since refilling of the cylinder is done once in a year.

The drinking water facility to the entire campus is through RO plant with capacity of 3000 litres/hour. Further there are about 35Nos of water doctor to supply drinking water at various service points. The RO plant and water doctor are maintained by AMC.

#### Electrical Maintenance

Power supply, Generators and Electrical Repairs are handled by the electrical engineer supported by electricians to facilitate the campus with reliable electric power. The power is supplied by the Tamil Nadu Electricity Board with a peak load of 750 kVA, and it is augmented by six diesel generators capable of giving a backup power of 1377.5 kVA. The generators are maintained as and when the repair occurs, on a call basis; the day-to-day maintenance is done by the technical staff attached to the electrical maintenance wing. There are 21 UPS systems of 650 KVA capacity in the campus, for server rooms and the lab equipment needing uninterrupted power supply. They are normally maintained by an AMC. In case of maintenance of electrical fittings, department infrastructure coordinator communicates the maintenance issue to the electrical maintenance wing and they solve the issue and it is recorded by them in their maintenance register.

#### Laboratory Maintenance

All the equipments and machinery of the laboratories are periodically maintained by the lab technicians. If the equipment/machinery is to be serviced during the warranty period, the supplier of the equipment/machinery will be intimated about the repair and it will be serviced either in-house or in the supplier premises based on the nature of defect. After warranty period if the equipment/machinery demands service, the technical staff attached to the respective laboratories service the equipment/machinery to the extent possible. When they become non serviceable, they report the matter to the faculty in-charge of the laboratory and he in turn refers the same to the HoD, who arranges to get them repaired.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="http://mcet.in/?page_id=52">http://mcet.in/?page_id=52</a>

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1717

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

87

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

**5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology**

A. All of the above

File Description	Documents
Link to Institutional website	<a href="https://mcet.in/?page_id=33">https://mcet.in/?page_id=33</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1361

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

<b>5.2 - Student Progression</b>	
<b>5.2.1 - Number of outgoing students who got placement during the year</b>	
467	
File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>5.2.2 - Number of outgoing students progressing to higher education</b>	
35	
File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year</b>	
<b>5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year</b>	
14	
File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>5.3 - Student Participation and Activities</b>	
<b>5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year</b>	
10	

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	No File Uploaded

### 5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students Guild of Services (SGS), the student body of the institution serves the students community by conducting several technical events, each of which helps identify and evolve emerging talents. The body, completely comprising of the students, serves as a mirror, reflecting the students' needs. SGS is a team of 18 young minds, each of whom hold individual responsibilities, collectively to make the campus a happy and beneficial environment for students to evolve. From the inauguration of first years to the graduation day, from the spark of idea to the success meet, each activity in the institution is the responsibility of the students, coordinated by SGS. SGS serves to be the event planning and execution team for all events like Campus day, Founders day, technical symposium, etc. Apart from this, the major activity of SGS is to conduct periodic meeting with the students, and management and serves as a bridge between them. SGS identifies student grievances, in person or online, and represent them to the college management. In most cases, the grievances are addressed by the team themselves. SGS marks important events such as engineer's day, teacher's day, Independence Day, annual day, sports day etc. with several co-curricular and extra-curricular events and honor the talents of the students. SGS coordinates with clubs, department associations, professional bodies, center of excellence and several students' development program to support their activities. In short, SGS is like democracy, by the students for the students, providing an equal platform of red carpet, taking the students to end up as a successful human

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://mcet.in/?page_id=12390">https://mcet.in/?page_id=12390</a>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

3

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Across the departments, the MCET Alumni Association has organised numerous programmes for the benefit of students and the college. 86 alumni contributed through Board of Studies, Mentoring to Students Project, Placement Training, 1st Year Student Induction Programme, Webinars, Industry Conclaves, Knowledge Sharing, Career Guidance, Conferences, Trends & Opportunities, Industry Expectations, Technical Content writing from various domains such as Mechanical Design/Analysis/Manufacturing, PLM, Defence, Electric Vehicle, Data Science, Machine Learning, IoT, Industry 4.0, Cloud Computing, Web Development, Higher Studies, Start-Ups/Entrepreneurship, Construction, etc.

##### Department-wise Contribution:

1. Automobile - 5 Alumni have contributed & 135 Students have benefited.
2. Civil - 7 Alumni have contributed & 43 Students have benefited
3. CSE - 8 Alumni have contributed & 400+ Students have benefited
4. ECE - 8 Alumni have contributed & 400+ Students have benefited.
5. E&I - 4 Alumni have contributed & 195 Students have benefited.
6. IT - 28 Alumni have contributed & 400+ Students have benefited.
7. EEE - 2 Alumni have contributed, 35 Students have benefited & 30 Faculty Members were participated.
8. Mechanical - 22 Alumni have contributed, 500+ Students (Core Engineering departments) have benefited & 25 Faculty Members were participated.
9. MCA - 2 Alumni have contributed & 32 Students have

benefited.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**5.4.2 - Alumni's financial contribution during the year**

C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

#### Vision of the Institute:

We develop globally competitive workforce and entrepreneurs

#### Mission of the Institute:

Dr. Mahalingam College of Engineering and Technology, Pollachi endeavors to impart high quality, competency based technical education in Engineering and Technology to the younger generation with the required skills and abilities to face the challenging needs of the industry around the globe. This institution is also striving hard to attain a unique status in the international level by means of infrastructure, state-of-the-art computer facilities and techniques.

Faculty members are involved in decision making and perspective planning in various bodies such as Governing Council, Academic Council, Board of Studies, and Finance Committee. These bodies meet as per the norms prescribed and take suitable decisions and ensure the implementation of the decisions. The action items from the decisions of these bodies ensure the communication and implementation of various plans towards the realization of the vision through the mission. Faculty are involved in the decision-making process through other committees such as Programme



Assessment Committee, Internal Quality Assurance Cell and Strategy Development and Deployment Committee, Planning and Monitoring board, and Purchase Committee.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="http://mcet.in/?page_id=237">http://mcet.in/?page_id=237</a>

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Decentralization and participative management has been implemented by grouping the departments into three streams. The Core stream includes Mechanical, Automobile, Mechatronics, Production and Civil departments. Circuit stream comprises of EEE, ECE, and EIE departments. IT stream includes CSE, IT and Computer Applications departments. For each stream, a senior Head of Department has been designated as Stream Coordinator. The Stream Coordinator is responsible for resource planning including faculty requirement identification, infrastructure up-gradation as well as optimal resource utilization within the stream. The Stream Coordinators discuss with Heads of Departments of their respective stream as well as with other Stream Coordinators to frame policy decisions related to Teaching & Learning, Student discipline, Research & Development activities and also ensure their implementation. This ensures that each stream functions effectively in a decentralized manner.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="http://mcet.in/?page_id=3453">http://mcet.in/?page_id=3453</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Research development and Innovation has been identified as one of the thrust areas in the Strategic plan for the period 2017-22. For

nurturing innovation and start-up culture the Centre for Innovation Business Incubation and Entrepreneurship (CIBIE) has undertaken various activities. CIBIE has organised 24 programs to promote entrepreneurship this year including a ten-day MSME Sponsored workshop for 25 students. Five new incubates have joined CIBIE this year and a total of 7.5 lakhs grant has been received from EDII for three incubatees. An MoU has been signed with Adfactor PR a Business Consultant to guide the incubatees on Go To Market Strategy. CIBIE has facilitated a 20-week Innovation Engineer Course called Protosem for III / IV year students.

MCET has a separate Intellectual Property Rights Cell (IPR Cell) to create awareness about Technology Commercialization and Patenting among students and faculty members and also provide support for IPR filing in Indian Patent Office. Through the IPR Cell, funding support is provided for patent search, drafting and filing. The IPR Cell also organizes workshops and Guest lectures on technology Commercialization and Patenting. An exclusive workshop on "Development of IoT products and patenting" was conducted in June 2021.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="http://mcet.in/?page_id=3453">http://mcet.in/?page_id=3453</a>
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Chairman of the Governing Council is assisted by the Correspondent and Secretary who acts as Management Representative. Principal is the Head of the Institution and administers all academic and allied divisions. Besides academic departments there are exclusive divisions for Teaching-Learning, Research & Development, Industry -Institute Partnership activity, and Career & Placement Guidance. Each of these divisions is headed by a senior faculty and comprises of one faculty from each department. Controller of Exams sections and Internal Quality Assurance Cell are functioning effectively under the guidance of Principal. The Centre for Innovation, Business Incubation and Entrepreneurship assists Students' start-up ventures. Finance and human resource management is taken care of by Office and HR divisions. Library,

Sports division, various Clubs & associations, Hostel & other amenities, Estate maintenance and Security sections are also functioning effectively with inputs from the administration team.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="http://mcet.in/?page_id=8585">http://mcet.in/?page_id=8585</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://mcet.in/?page_id=929">https://mcet.in/?page_id=929</a>

### 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

- Management provides 50% of salary during full time Ph. D course workperiod.
- Supporting staff are permitted for doing B.E., (Part Time) with full salary and 50% tuition fees is borne by management.
- Staff Family Benefit Fund under which Rs.100/- is deducted every month from the salary of staff members with equal contribution by management. In case of accidental demise, Rs. 25,000/- shall be paid to the family. In case of Family member's demise, Rs.5000/- shall be paid to the member. During retirement or relieving, total contribution amount will be returned.

- NIA Educational Institution Employees co-op Thrift & Credit Society under which loans are sanctioned at nominal interest for staff members.

- Group insurance and accident safety insurance for which premium is paid by management. On accidental death of staff, Rs.1,50,000/- can be claimed. Rs.1,50,000/- per annum can be claimed towards Staff Medical Expenses from Star Health Insurance. In case of death of staff members Rs.6,03,000/- can be claimed from E.P.F. (EDLI) Group Insurance.

- Superannuation benefits of EPF, Family Pension Scheme

- Gratuity Scheme for staff members who have completed 5 years of continuous service.

- Faculty Deputation for Training provided abroad / industry

FDP sponsorship is provided to Teaching / Non-Teaching staff

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://mcet.in/?page_id=931">https://mcet.in/?page_id=931</a>

### 6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

4

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

39

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

190

File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 6.4 - Financial Management and Resource Mobilization

##### 6.4.1 - Institution conducts internal and external financial audits regularly

Institution conducts Internal and external Audit regularly

The Institution has established a mechanism for conducting Internal and External audits on the financial transactions every year to ensure Financial Compliance.

Internal Audit is conducted Quarterly by the Internal Auditor of the Institution. Internal Auditor thoroughly verified all Receipts, Payment vouchers and bills. If any discrepancy found, the same is brought to the notice of the Management through the Head of the Institution.

External Audit is conducted once in every year by the external agency (Chartered Account) which is appointed by the Management of the Institution. External Audit is conducted by the Chartered Accountant of the Institute regularly as per the Government Rules. Any queries in the process of audit would be attended immediately along with the supporting documents within the Prescribed time limits. All Utilization Certificates to various grant giving

agencies are also countersigned by the Chartered Accountant. The Audited statement is duly signed by the Management and Chartered Accountant.

The Institution did not come across with any major audit objection during the preceding years.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

#### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

nil

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

#### 6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Resources are mobilized by the following means:

- Fees collected from Students
- Funds received from Management
- Grants received from AICTE, UGC and other funding agencies.
- Amount generated through consultancy activity.
- Fees collected through courses conducted by centres of Excellences & value added centres.

The Management is spending money for the campus Infrastructure & department Infrastructure based on the need from each department and section. Optimal utilization is ensured by framing a Budget. Before the commencement of the financial year, budget proposal is collected from all departments. The requests are consolidated and reviewed by the Administration team and funds are allotted. Utilization of allocated funds are monitored periodically and

reviewed at the end of the Financial Year.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

### 1.E-learning

#### 2.Objectives of the Practice

- a. Improve the existing e-learning practices, especially in the wake of the pandemic
- b. Develop a strong teaching learning system that can be carried forward in the online mode

#### 3.The Context

The institute had introduced tablets and teaching learning process was enabled through tablets much before the onset of the pandemic. The pandemic necessitated the shift towards e-learning much more.

#### 4.The Practice

Learning through platforms like SWAYAM and NPTEL are popular in India. The pandemic forced institutes to think of ways and means of sustaining the teaching learning practice. E-learning system development was considered on priority. Exposure and training to stakeholders and technical challenges were major constraints that had to be overcome.

#### 5.Evidence of Success

With the implementation of the e-learning system, institute targeted conducting online classes for all the courses. Targets with respect to the content were specified and were fairly

achieved in all the theory courses. Challenges in practical courses are being overcome.

#### 6. Problems Encountered and Resources Required

Usage of tools for e-learning by faculty members and usage of platform by students when this initiative started was a challenge. This was overcome by training programs and orientation sessions.

##### 1. Webinars

##### 2. Objectives of the Practice

a. Continue to provide exposure to students and faculty members in emerging areas

b. Engage with alumni and industry experts continuously

##### 3. The Context

Pandemic brought about many changes in the ways systems operate. The institute is known for engaging with industry strongly through guest lectures and seminars. These were converted into webinars.

##### 4. The Practice

Industry experts and alumni were invited to deliver sessions on selected themes in webinars. Webinars were organized by departments, group of departments and institute. The webinar was made open to all the students and faculty members. Experts even though located in far off locations interacted with students and faculty.

##### 5. Evidence of Success

Many webinars have been organized with active participation of students and faculty members. The webinars have continued to witness interactions between the experts, students and faculty members. Lot of useful information on emerging areas have been shared in these webinars.

#### 6. Problems Encountered and Resources Required

Scheduling of the webinars to the convenience of experts was found to be challenging. Experts availability was given priority over the time of students and faculty members and sessions scheduled.



File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://mcet.in/?page_id=3453">https://mcet.in/?page_id=3453</a>

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

**IQAC conducts academic and administrative audits. The institution has defined its own audit system that monitors the teaching learning process and its achievement. The academic audits cover aspects of the curriculum, teaching learning process and achievement of learning outcomes. During the audits rubrics are used to rate the process and outputs. Multiple criteria are used for rating the teaching learning process. The criteria and the parameters are aligned to the NBA and NAAC requirements. Parameter wise rating is given on a Likert's scale with four levels. Weakness and deficiency are identified and corrective and preventive actions taken.**

**IQAC has also facilitated the review of the e-learning process in the wake of the pandemic. The reviews are carried out based on a set of criteria and feedback given at the department and course level. Faculty member implement changes based on the feedback during the reviews. Audits of these are also carried out at the institutional level. This has helped in the quality improvement of teaching learning process in the online mode during the pandemic.**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

**A. Any 4 or all of the above**

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

#### 7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institution is a co- educational engineering college and admissions are carried out in accordance with the norms. Female students excel in their performance and they have served as president, vice -president of Student Guild of Service a forum exclusively run by students for the students. Female physical education instructor and female yoga instructor are available to take care of the overall development of the female students.

Women empowerment cell has been established to ensure security and safety with senior women faculty as members. A special committee consisting of senior women faculty, lady doctor and public is available for the representation of sexual harassment of women students. Common rooms and toilet facilities are available.

Among teaching faculty nearly 35% (87/249) of the faculty members are women and 26% (23/87) of the women faculty are Ph. D holders actively involved in research, and 13% (11/87) of the women faculty are pursuing their research programme. Women faculty members are regularly participating in seminar, conference, workshops and faculty development programmes. Women faculty members are involved in the organizational management of the institution in several levels. Maternity leave facilities are available for the women faculty as per college norms. A forum for women "YuvaSakthi" functions in the institution since 2004. To motivate girls students to do higher studies, GRG Chandrakanthi Scholarship Endowment award is provided since 2009.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

**B. Any 3 of the above**

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)**

Efforts have been taken to recycle and reuse the waste generated inside the campus. The food waste generated in the campus is used for the production of biogas. The 2 Hu-Methane Gas Plant in the campus generates about 70m<sup>3</sup> per day. The gas generated in the units is used in the hostel kitchen. This helps minimizing the use of LPG cylinders in the kitchen. A waste water recycling plant is being constructed in the campus for purification of the waste water generated. The number of computers and accessories purchased is increasing considerably over the years as the College is gradually switching over to paperless concept. E-waste management is dealt with concern as this affect the environment negatively. Condemned devices and materials from computer lab are sold to the e-waste management companies in Coimbatore and Erode. Most often, the minor repairs are taken care of by the lab technicians and the staff; major repairs by the professionally trained personnel. UPS batteries are recharged or repaired whenever possible or exchanged with the supplier when condemned.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

**B. Any 3 of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

**A. Any 4 or All of the above**

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

**7.1.6 - Quality audits on environment and energy undertaken by the institution**

<p><b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b></p> <ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3.Environment audit</b></li> <li><b>4.Clean and green campus recognitions/awards</b></li> <li><b>5.Beyond the campus environmental promotional activities</b></li> </ol>	<p><b>D. Any 1 of the above</b></p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<b>No File Uploaded</b>
Certificates of the awards received	<b>No File Uploaded</b>
Any other relevant information	<b>No File Uploaded</b>

<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</b></p>	<p><b>B. Any 3 of the above</b></p>
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File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - 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 a maximum of 200 words).

Institution takes efforts to fulfil the norms recommended by the statutory bodies. Institute admits various reserved category students and supports them to get their necessary scholarships. The college runs "Disability Resource Centre" is to create a barrier free environment and provide special pedagogical approaches that will cater all categories of disability among the students. Its mission is to serve as a resource to campus units by facilitating compliance awareness and promoting an inclusive community through diversity, education, and outreach initiatives. Institute supports linguistic barrier students through language learning centre. Apart from the First year English paper, LLC offers LSRW program to all the first year second year and third year students to promote a holistic approach towards language learning. LSRW (Listening, Speaking, Reading and Writing) activities have been introduced for all the 1st, 2nd and 3rd year students from 2015-2016 academic year onwards. To make our students join the national main stream, LLC offers Hindi all thesecond-yearstudents during the 4th semester and all thethird-yearstudents during the 5th semester. All training programs are learner centric and LLC uses its state-of-the-art Language Lab for its programs. Besides LSRW, LLC offers IELTS (International English Language Testing System) training, BEC (Business English Certificate) training. To grab the global opportunities available to Indian Engineers, LLC trains interested students in Foreign Languages like French, German and Japanese.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded
7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:	
<p>As a part of the curriculum, Professional skill courses like Wellness for Students, Universal Human values 1 &amp; 2, Teamness and Interpersonal skills and Campus to corporate were offered to all students with credits. The Citizen Consumer Club of Dr. Mahalingam College of Engineering and Technology, Pollachi has taken an initiative to enhance awareness amongst the student community about the rights and responsibilities of a consumer. Citizen Consumer Club has been working with great enthusiasm and commitment. The Citizen Consumer Club has been collaborating with Civil Supplies and Consumer Protection Department (Govt. of Tamil Nadu), FEDCOT and other such private organizations to create awareness on consumer rights and adulteration issues. Students actively participate in competitions. The objective of the club is to educate and motivate the Consumer Club Members about the rights and responsibilities of consumers and to make the members inculcate the valuable inputs which they gained among the general public; to join hands with other voluntary consumer organizations and with other consumer clubs to enhance consumer movement; and to collaborate, cooperate, actively participate and function in accordance with the Department of Civil Supplies and Consumer Protection, Government of Tamil Nadu. Along with National festivals like Independence Day, Republic Day, Teachers Day were conducted even during pandemic situation by following the protocols.</p>	
File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded
<b>7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts</b>	<b>A. All of the above</b>

**periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The institute celebrates the national festivals and birth/death anniversary of great Indian personalities. The following are such festivals/functions:

- Independence Day
- Republic day
- International women's day
- Teachers 'day
- Engineersday
- National science day
- National Education Day
- Sadbhavnadiwas
- Dr.APJ Abdul Kalam Death Anniversary



- Armed force flag day
- SwamiVivekanada150th Birth Anniversary
- RashtriyaEkthaDiwas (SardarVallabhaiPatel birth anniversary)

The college every year celebrates the functions of national importance and celebrates the birth / death anniversaries of national leaders. The Independence Day and the republic day are celebrated in a befitting manner with drill parades of NCC students. National festivals like Independence Day, Republic Day, Teachers Day were celebrated even during pandemic situation by following the protocols. Also, the commemoration of the anniversaries of other national leaders is celebrated with the speech for the soul by reputed speakers. The 3rd international Yoga Day on 21 Junewas observed inonline mode like students doing yogaattheirhomeand send the videos to institution whichagain posted to AICTE.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

### 1. E-learning

#### Objectives of the Practice

- Improve the existing e-learning practices, especially in the wake of the pandemic
- Develop a strong teaching learning system that can be carried forward in the online mode

#### The Context

The institute had introduced tablets and teaching learning process enabled through tablets much before the onset of the pandemic. The pandemic necessitated the shift towards e-learning much more.

### The Practice

Learning through platforms like SWAYAM and NPTEL are popular in India. The pandemic forced institutes to think of ways and means of sustaining the teaching learning practice. E-learning system development was considered on priority. Exposure and training to stakeholders and technical challenges were major constraints that had to be overcome.

### Evidence of Success

With the implementation of the e-learning system, institute targeted conducting online classes for all the courses. Targets with respect to the content were specified and were fairly achieved in all the theory courses. Challenges in practical courses are being overcome.

### Problems Encountered and Resources Required

Usage of tools for e-learning by faculty members and usage of platform by students when this initiative started was a challenge. This was overcome by training programs and orientation sessions.

## 2. Webinars

### Objectives of the Practice

- Continue to provide exposure to students and faculty members in emerging areas
- Engage with alumni and industry experts continuously

### The Context

Pandemic brought about many changes in the ways systems operate. The institute is known for engaging with industry strongly through guest lectures and seminars. These were converted into webinars.

### The Practice

Industry experts and alumni were invited to deliver sessions on selected themes in webinars. Webinars were organized by departments, group of departments and institute. The webinar was

made open to all the students and faculty members. Experts even though located in far off locations interacted with students and faculty.

#### Evidence of Success

Many webinars have been organized with active participation of students and faculty members. The webinars have continued to witness interactions between the experts, students and faculty members. Lot of useful information on emerging areas have been shared in these webinars.

#### Problems Encountered and Resources Required

Scheduling of the webinars to the convenience of experts was found to be challenging. Experts availability was given priority over the time of students and faculty members and sessions scheduled.

3. RO water is provided for all inside the campus

4. Helmet is compulsory for all to create awareness

File Description	Documents
Best practices in the Institutional website	<a href="https://mcet.in/?page_id=3453">https://mcet.in/?page_id=3453</a>
Any other relevant information	Nil

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The institution has started data analytics on various teaching learning initiatives as well gaining deeper insights into teaching learning process in the digital era which enhance the teaching learning experience in the campus. Due to COVID pandemic lock down, online classes were conducted through MS Teams platform from academic year 2020-21. All faculty members are instructed to prepare e-content in the form of PPT, pdf, video, animations, workbook and handouts etc. The course content was delivered through MS teams in live mode or posting recorded video files in MS teams. In addition to that Doubt clarifying sessions are also conducted to clear their doubts for theory and analytical courses. The Laboratory courses are conducted in online using virtual labs,

electronic simulators, programming languages such as C, C++, Java, Python etc. are conducted using e-Learning@mcet.in Moodle portal with internal server hosted. To evaluate the performance of students Formative Assessments (FA), internal assessment examinations are conducted through MS forms and also End semester examinations are conducted using e-Proctoring portal. For continuous improvement periodic feedback from students and faculty members were received through online portal. In addition to that Course attainments, exit survey are collected and analyzed using this platform.

File Description	Documents
Appropriate link in the institutional website	<a href="https://mcet.in/?page_id=8294#tab-1639859540434-2-0">https://mcet.in/?page_id=8294#tab-1639859540434-2-0</a>
Any other relevant information	No File Uploaded

### 7.3.2 - Plan of action for the next academic year

- Core company tieup has to be established for improving internship, placement and faculty training in emerging areas.
- Online courses can be offered in the emerging areas inline with NEP2020
- New B.E./ B. Tech Courses has to be started in emerging areas like Artificial Intelligence and Data Sciences, Artificial Intelligence and Machine Learning, Cyber Security, IoT etc.,
- Placement with higher CTC can be increased