



# **YEARLY STATUS REPORT - 2021-2022**

## **Part A**

### **Data of the Institution**

#### **1.Name of the Institution**

**MAHENDRA ENGINEERING COLLEGE  
(AUTONOMOUS)**

- Name of the Head of the institution **Dr.R.V. Mahendra Gowda**
- Designation **PRINCIPAL**
- Does the institution function from its own campus? **Yes**
- Phone No. of the Principal **04288288610**
- Alternate phone No. **04288288500**
- Mobile No. (Principal) **6382083091**
- Registered e-mail ID (Principal) **principal@mahendra.info**
- Address **Mahendra Engineering College  
(Autonomous), Mahendrapuri,  
Mallasamudram, Tiruchengode**
- City/Town **Namakkal**
- State/UT **Tamil Nadu**
- Pin Code **637503**

#### **2.Institutional status**

- Autonomous Status (Provide the date of conferment of Autonomy) **17/01/2013**
- Type of Institution **Co-education**
- Location **Rural**

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr.C.T.Sivakumar**
- Phone No. **04288288599**
- Mobile No: **9442130662**
- IQAC e-mail ID **sivakumar@mahendra.org**

**3.Website address (Web link of the AQAR (Previous Academic Year))** <http://mahendra.info/iqac.php>

**4.Was the Academic Calendar prepared for that year?** **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: [http://mahendra.info/academic\\_calendar.php](http://mahendra.info/academic_calendar.php)

#### 5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.06</b>	<b>2014</b>	<b>14/07/2014</b>	<b>09/07/2020</b>

**6.Date of Establishment of IQAC** **01/11/2012**

**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>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

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

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

**9.No. of IQAC meetings held during the year** **7**

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

**10. Did IQAC receive funding from any funding agency to support its activities during the year?** **No**

- If yes, mention the amount

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

NBA - Compliance report submitted for the 3 UG Programmes. Based upon the submission of the Compliance Report B.E. CSE, B.E. ECE, and B.E. EEE are accredited by NBA in Tier I (WA) for one more year valid up to 30.06.2025

Our college have got approval from MSME approved Host Institution for "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators" dated 6.4.2021. Total college from India : 147  
From Tamil Nadu : 25

Participated in ATAL ranking of institutions on innovations achievements ARIIA 2021 . Received Excellent band Ranking between 6 to 25 bandwidth

Received MHRD-IIC Innovation Cell 3.5 star for the Year 2021

Participated in NIRF 2022 . Our Institution obtained 29.17 marks.

**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:**

Plan of Action	Achievements/Outcomes
Publications	One hundred and Fifty Four papers were published in reputed journals and conference etc
Workshops	Organised Twenty Eight workshops
Result	Result : 97.63 %
Admission	Achieved around 75 %
Paper Presentations	One hundred Ninety two papers were presented
Research Enrolment	Ninety Nine Research Scholars enrolled
Programmes Organized Conference / Symposium/ Seminar/Webinar	Seventy Four organized

13. Was the AQAR placed before the statutory body? **Yes**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Governing Council	05/08/2022

14. Was the institutional data submitted to AISHE ? **Yes**

- Year

## Part A

### Data of the Institution

<b>1.Name of the Institution</b>	<b>MAHENDRA ENGINEERING COLLEGE (AUTONOMOUS)</b>
• Name of the Head of the institution	<b>Dr.R.V. Mahendra Gowda</b>
• Designation	<b>PRINCIPAL</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone No. of the Principal	<b>04288288610</b>
• Alternate phone No.	<b>04288288500</b>
• Mobile No. (Principal)	<b>6382083091</b>
• Registered e-mail ID (Principal)	<b>principal@mahendra.info</b>
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• City/Town	<b>Namakkal</b>
• State/UT	<b>Tamil Nadu</b>
• Pin Code	<b>637503</b>
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• Autonomous Status (Provide the date of conferment of Autonomy)	<b>17/01/2013</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Rural</b>
• Financial Status	<b>Self-financing</b>
• Name of the IQAC Co-	<b>Dr.C.T.Sivakumar</b>

ordinator/Director					
• Phone No.		04288288599			
• Mobile No:		9442130662			
• IQAC e-mail ID		sivakumar@mahendra.org			
<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>		<a href="http://mahendra.info/igac.php">http://mahendra.info/igac.php</a>			
<b>4.Was the Academic Calendar prepared for that year?</b>		Yes			
• if yes, whether it is uploaded in the Institutional website Web link:		<a href="http://mahendra.info/academic_calendar.php">http://mahendra.info/academic_calendar.php</a>			
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.06	2014	14/07/2014	09/07/2020
<b>6.Date of Establishment of IQAC</b>			01/11/2012		
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Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
Nil	Nil	Nil	Nil	Nil	
<b>8.Provide details regarding the composition of the IQAC:</b>					
• Upload the latest notification regarding the composition of the IQAC by the HEI			<a href="#">View File</a>		
<b>9.No. of IQAC meetings held during the year</b>			7		
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?			Yes		

<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>	No
<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>	
<p>NBA - Compliance report submitted for the 3 UG Programmes. Based upon the submission of the Compliance Report B.E. CSE, B.E. ECE, and B.E. EEE are accredited by NBA in Tier I (WA) for one more year valid up to 30.06.2025</p>	
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<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>	
Name of the statutory body	Date of meeting(s)
Governing Council	05/08/2022
<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
2021-22	14/03/2023
<b>15.Multidisciplinary / interdisciplinary</b>	
The curriculum is implemented effectively by standard teaching-learning process facilitated by well qualified, dedicated faculty members using a host of innovative teaching practices. Study of	



fundamental concepts of basic sciences enables the students to understand and apply them to solve engineering problems. Students learn important concepts in professional core courses and advanced concepts in professional elective courses, which enhance their analytical and problem-solving skills. The study of open electives offered by other branches facilitates an interdisciplinary approach to learning. Conduct of practical's enables the students to practice what they learnt in theory and have hands-on experience. Mini-projects and Projects enable the students to think creatively, innovate and develop novel products/process, work in teams, prepare reports and make presentations. Internships/industrial training facilitate the students to learn the latest in industry, bridge the gap between academia and industry and get industry-ready to seek employment.

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

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

Humanities and Social Sciences including Management Courses (HSMC) include Technical English, Employability Skills, Engineering Ethics and Human Values, Communication skills and Management courses, etc.

ii. Basic Sciences Courses (BSC) include Physics, Chemistry, Mathematics and Environmental Sciences, etc.

iii. Engineering Sciences Courses (ESC) include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Civil Engineering, etc.

iv. Professional Core Courses (PCC) include the core courses relevant to the chosen specialization/branch.

v. Professional Elective Courses (PEC) include the elective courses relevant to the chosen specialization/ branch.

vi. Open Elective Courses (OEC) include the courses from other branches; a student can choose from a list specified in the curriculum of the B.E. / B. Tech. Programmes.

vii. Employability Enhancement Courses (EEC) include Project Work and/or Internship, Seminar, Professional Practices, Case Study, a n d Industrial/Practical Training, etc.

viii. Audit Courses (AC) expose the students to Constitution of India, Essence of Indian Traditional Knowledge, Yoga, English for Research Paper Writing, Value Education, Pedagogy Studies, Stress Management and Personality Development through Life Enlightenment Skills, etc. No credits shall be allotted to the audit courses. There shall be a certain minimum of Core courses and sufficient number of Elective courses that can be opted by the students. The blend of different courses shall be designed that the student, at the end of the programme, would have been trained not only for his/her relevant professional field but also would have developed as a socially conscious human professional

### **17.Skill development:**

The Mission of the College emphasizes on Industry-Institute interaction for effective training of students for successful placement, adoption of innovative and current practices in the industry.

To achieve this, the College has strategically established various Centres of Excellence in collaboration with prominent industries, through which students achieve their academic excellence to meet industrial standards. Our College has established TVS Harita Techserve Research Center for New Product Development and Manufacturing Technologies, which was inaugurated at MEC campus on 11th March 2014. The main objective is to create a Pool of Students with Strong Industry Ready Talent, undergoing Engineering. This has helped to bridge the gap between industry requirements and skills taught in academic course and greatly enabled to groom Engineers who are highly conversant with Design processes involving need finding, ethnographic field work, rapid prototyping and testing. So far more than 40 students were placed in reputed companies like VOLVO, Atlas Copco, SCL, Honey well, TVS motors, based on this Tie-up. Similarly the Centre of Excellence in Formwork Engineering in collaboration with L&T Ltd., was established on 9th November 2017 at Mahendra Engineering College. From this Centre of Excellence students gain valuable information on various formwork systems, tools and components used in formwork, different bonds of brick masonry and reinforcement details of various elements. Through the Centre of Excellence we provide training to masons, mazdoor and engineers about various formwork systems and new technologies used as recent trends. We also conduct several certified courses in formwork engineering inviting participants from various

institutions. MEC-NI LabVIEW Academy is established in 2014 jointly with National Instruments under their Planet NI (Nurturing Innovation) framework which strives to increase the employability of Indian engineering graduates by creating Centre of Excellence in Engineering Colleges and Universities which will provide cost effective access to world-class latest technology through classroom teaching-learning. Escorts Training and Development Center (ETDC) is established in February 2017 at our College to organise technical programs such as Internship, Training, Project works and Research for the Agriculture Engineering students. A Centre of Excellence in Artificial Intelligence and Machine Learning is established at our College in collaboration with Intel, Next Wealth and Happiest Minds in June 2019. This CoE in AI-ML offers courses on Artificial Intelligence, Python Programming and Image processing for Computer vision. Around 40 Students and 5 faculty members are trained by Next Wealth Private Limited, Happiest Minds, and Mind Tree. Intel donated 45 Parallel Studio XE Cluster edition licence software, each worth of USD 3200, for learning. Some of the students are placed in Happiest Minds, Mind tree and other companies that use AI and app development.

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

Personality and Character Development All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days.The training shall include classes on hygiene and health awareness and also training in first-aid, etc. National Cadet Corps (NCC) will have about 20 parades. National Service Scheme (NSS) will have social service activities in and around the College. National Sports Organization (NSO) will have sports, games, drills and physical exercises. Youth Red Cross (YRC) will have activities related to social services in and around the College. While the training activities will normally be during weekends, the camp activities will normally be during vacation period. Personality and Character Development All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days.The training shall include classes on hygiene and health awareness and also training in first-aid, etc. National Cadet Corps (NCC) will have about 20 parades. National Service Scheme (NSS) will have social service activities in and around the College. National Sports

Organization (NSO) will have sports, games, drills and physical exercises. Youth Red Cross (YRC) will have activities related to social services in and around the College. While the training activities will normally be during weekends, the camp activities will normally be during vacation period.

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

Our College is an autonomous institution, which has duly constituted Board of Studies for each discipline of study. Each programme has well defined Programme Educational Objectives

(PEOs) and Programme Specific Outcomes (PSOs). The PEOs are based upon the Institute Mission for holistic needs. The PSOs define the programme-specific and deeper specializations to develop man power to meet the local/regional needs of industry. The POs reflect the national and global developmental needs. All the POs and PSOs are attained by offering a set of courses over a period of 8 semesters in UG programmes and 4 semesters in PG programmes. The curriculum and syllabi for both undergraduate and postgraduate programs is designed and developed by the Boards of Studies based upon the AICTE model curriculum and by taking the opinion/suggestions/feedback from the University nominee, Academic expert, Industry experts, Faculty members and Alumni. The curriculum has a good balance of courses covering Basic Sciences, Humanities and Sciences, Basic Engineering, Programme Core, Programme Electives, Open Electives, Employability Enhancement Courses, Personality Development, Competency Development courses, etc. Each course has a set of 5-6 COs, which are mapped to one or many relevant POs and PSOs. The curriculum is modified and updated from time to time on yearly basis based upon the changes in industry and societal needs.

The curriculum is implemented effectively by standard teaching-learning process facilitated by well qualified, dedicated faculty members using a host of innovative teaching practices. Study of fundamental concepts of basic sciences enables the students to understand and apply them to solve engineering problems. Students learn important concepts in professional core courses and

advanced concepts in professional elective courses, which enhance their analytical and problem-solving skills. The study of open

electives offered by other branches facilitates an interdisciplinary approach to learning. Conduct of practicals enables the students to practice what they learnt in theory and have hands-on experience. Mini-projects and Projects enable the students to think creatively, innovate and develop novel products/process, work in teams, prepare reports and make presentations. Internships/industrial training facilitate the students to learn the latest in industry, bridge the gap between academia and industry and get industry-ready to seek employment. Students are also encouraged to participate in technical competitions and ideation contests as part of co-curricular activities to improve their individual and team work. They also participate in sports activities on a regular basis. Training in technical and soft skills has been imparted to the students by Mahendra Academy for Training and Placement (MATP). It involves training in communication skills, quantitative aptitude, logical reasoning, and coding. This training ensures better employability for the students. Training in the latest software and technologies is offered to the students as desired by companies. With a view to promote self-learning, students are encouraged to pursue online NPTEL/ MOOCS certification courses.

#### **20.Distance education/online education:**

Students may be permitted to credit online courses (which are provided with certificate) from second semester onwards with the approval of Principal subject to a maximum of two / three credits per course. An online course can be considered equivalent to one elective course. Online course credits can be transferred to program / open elective course with the approval of Course Credit Transfer Committee constituted by the Head of the Institution. The students satisfying the following conditions shall be permitted to carry out their final semester Project Work for six months in industry/research organizations. • The students should not have current arrears and shall have CGPA of 7.50 and above. The student shall undergo the eighth semester courses in the sixth and seventh semesters. • The Head of Department, in consultation with the faculty members handling the said courses, shall forward the proposal approved by the Head of Institution to the Controller of Examinations at least 2 weeks before the commencement of the sixth semester of the programme.

### **Extended Profile**

<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	<b>30</b>
<b>File Description</b>	<b>Documents</b>
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>2.Student</b>	
2.1 Total number of students during the year:	<b>4398</b>
<b>File Description</b>	<b>Documents</b>
Institutional data in Prescribed format	<a href="#">View File</a>
2.2 Number of outgoing / final year students during the year:	<b>990</b>
<b>File Description</b>	<b>Documents</b>
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>4303</b>
<b>File Description</b>	<b>Documents</b>
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>801</b>
<b>File Description</b>	<b>Documents</b>
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.2 Number of full-time teachers during the year:	<b>390</b>

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3 Number of sanctioned posts for the year:	<b>390</b>
<b>4. Institution</b>	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	<b>1206</b>
4.2 Total number of Classrooms and Seminar halls	<b>109</b>
4.3 Total number of computers on campus for academic purposes	<b>1282</b>
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	<b>650.88</b>
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curriculum Design and Development</b>	
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.	
<p>Our College is an autonomous institution, which has duly constituted Board of Studies for each discipline of study. Each programme has well defined Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs). The PEOs are based upon the Institute Mission for holistic needs. The PSOs define the programme-specific and deeper specializations to develop man power to meet the local/regional needs of industry. The POs reflect the national and global developmental needs. The POs and PSOs are attained by offering a set of courses over a period of 8 semesters in UG programmes and 4 semesters in PG programmes.</p>	



The curriculum and syllabi for both UG and PG programs is designed and developed by the Boards of Studies based upon the AICTE model curriculum and by taking the opinion/suggestions/feedback from the University nominee, Academic expert, Industry experts, Faculty and Alumni. Curriculum has a good balance of courses covering Basic Sciences, Humanities and Sciences, Basic Engineering, Programme Core, Programme Electives, Open Electives, Employability Enhancement Courses, Personality Development, Competency Development courses, etc. Each course has a set of 5-6 COs, which are mapped to one or many relevant POs and PSOs.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%201/1.1.1/Link-pages.pdf">http://www.mahendra.info/NAAC/Criterion%201/1.1.1/Link-pages.pdf</a>

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

25

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	<a href="#">View File</a>

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

721



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	<a href="#">View File</a>

## 1.2 - Academic Flexibility

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

93

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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

25

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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 the Mission of the Institute is to inculcate ethical values,**

the College focuses on integrating cross-cutting and interdisciplinary issues to enable students develop wholesome personality.

In this context, important courses such as Professional Ethics and Human Values, Universal Human Values, Environmental Science and Engineering, Constitution of India, Managerial Economics have been introduced as mandatory courses for all programmes of engineering to enable students acquire the essence of Human Values, Gender Equity, Fraternity, Harmony, Right Understanding, Complementariness, etc. These courses in addition to other courses such as Disaster Management, Non-Conventional Energy Resources help the students understand the environmental concerns, energy requirements, disaster prevention and mitigation, and the need for sustainability of ecosystem, etc. In addition to the above course, the College has two National Service Scheme units, Women Empowerment Cell and several Clubs, which play vital role in actively involving the students in societal activities. NSS encourages student participation in programmes like Blood Donation, Tree plantation, Swacch Bharat Abhiyan and bringing awareness on renewable energy sources, conservation of water and electricity. The Eco Club conducts guest lectures on environmental awareness and celebrates Eco Week annually highlighting the importance of environmental conservation

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	<a href="#">View File</a>

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

38

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

<b>1.3.3 - Number of students enrolled in the courses under 1.3.2 above</b>	
2593	
File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>1.3.4 - Number of students undertaking field work/projects/ internships / student projects</b>	
1779	
File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>1.4 - Feedback System</b>	
<b>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</b>	<b>A. All 4 of the above</b>
File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="http://www.mahendra.info/NAAC/Criterion%201/1.4.1/1.4.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%201/1.4.1/1.4.1.index.pdf</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>
<b>1.4.2 - The feedback system of the Institution comprises the following</b>	<b>A. Feedback collected, analysed and action taken made available on the website</b>

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="http://www.mahendra.info/NAAC/Criterion%201/1.4.2/1.4.2index.pdf">http://www.mahendra.info/NAAC/Criterion%201/1.4.2/1.4.2index.pdf</a>
Any additional information	<a href="#">View File</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment of Students

##### 2.1.1.1 - Number of students admitted (year-wise) during the year

1284

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

##### 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)

1184

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

### 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The Faculty members assess the students learning and identify Bright Students and Slow Learners by continuously monitoring their academic performance and participation in curricular and co-curricular activities. Students who consistently score above 60% in Internal Assessments and previous End Semester Examinations are considered as Fast Learners and those who score below 50% in Internal Assessments and have arrears in previous End Semester Examinations are considered as Slow learners.

**Measures to Encourage Fast learners**

Students are encouraged to present papers on technological advancements at national and international events. Partial financial support is extended for soft skill development, other training and placement activities. Additional library cards are issued to enable them to access more reference books on recommendation of HODs.

**Measures to Support Slow Learners:**

The slow learners are identified and Special Coaching is provided during evening

Extra coaching classes, tutorial classes, assignments, discussing previous end semester question papers and providing question banks with answer keys, etc. are followed to improve academic performance of the slow learners. Retest is also conducted for slow learners to improve their performance

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.2.1/2.2.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.2.1/2.2.1.index.pdf</a>

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

Year	Number of Students	Number of Teachers
30/03/2021	4398	390

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 faculty members adopt various innovative Teaching-Learning**

methodologies to create the best learning environment for students. These methodologies include classroom teaching, ppt presentations, video lectures, and collaborative learning with illustrations.

- Students are given with preamble of the course. Well-structured lesson plans are prepared / revised for all theory and practical courses. Smart Board, LCDs etc., are used for teaching purposes. Faculty members explain the course contents clearly with the support of content relevant examples. Other resources like NPTEL video lectures, internet sources are used for effective teaching.
- Students are motivated to pursue online courses from NPTEL/Swayam to learn advanced concepts and improve problem solving skills.
- Guest lectures, workshop and seminars are conducted regularly by inviting the resource persons from the reputed institutions and industry to help the students to understand concepts beyond curriculum
- The following innovative teaching techniques have been introduced and implemented by collaborative work amongst faculty members and students:
  - Flipped Classroom (Participative Learning)
  - Blended Learning (Experiential Learning)
  - Activity/Project

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.3.1/proof.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.3.1/proof.pdf</a>

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

ICT facilities and LCD projectors are installed in lecture halls. Online resources and e-Learning facilities like NPTEL video lectures are used by both faculty members and students for effective teaching and learning. In addition e-Books, e-Journals, DELNET and Digital library services are used by faculty members for extended reference of material for teaching. Also Guest

Lectures by industrial experts and online Webinars/Seminars, IIT/NIT Lecture series are organized by faculty members on specific topics for enhanced learning. Industrial co-teaching courses are introduced, which are partially delivered by Industry experts to enhance practical knowledge.

During pandemic and post-pandemic faculty members conducted online classes extensively using through Google meet/Google classroom. Online assessments, quiz, Flipped teaching and Blended learning are also practiced and implemented by the faculty members and students. In-house Competency and Personality development trainings are provided every semester to make the students industry ready.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.3.2/PROOF.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.3.2/PROOF.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

317

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

The Principal office prepares Academic Calendar for each semester in consultation with the HODs and Management. The Academic Calendar consists of Opening/Reopening date, Total no. of Working days, Holidays, Internal Test slots, End Semester Exam fees payment dates, Last working day, End Semester Practical and Theory Examination dates, Reopening date for the next semester, etc. It is circulated amongst all faculty members and students for their information and record. Based upon the Academic Calendar the Heads

of the Departments plan and decide the academic activities and assign the responsibilities to the faculty members. Every Department plans to prepare the timetable, subject allocation, etc. Every faculty member accordingly prepares the Preamble for each subject with the name of the course, course Objectives, Pre-requisites, Outcomes, Textbooks, references, etc. The faculty member also prepare lecture plan/teaching plan/session plan and implement accordingly. The Controller of Examinations plans, conducts and monitors the Internal Tests, End Semester Examinations for each semester in line with the schedule received from the affiliating university.

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

390

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	<a href="#">View File</a>

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

75

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	<a href="#">View File</a>

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



**teachers' total teaching experience in the current institution)****2276**

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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****20**

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	<a href="#">View File</a>

**2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year****0**

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	<a href="#">View File</a>

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

**Our Institution has an exclusive web based Examination Management System (EMS) named as COXCO, which has been created and integrated with all necessary modules to conduct the Examination and process the results smoothly. The Examination Cell collects the Student data and updates the same in the EMS software module. The**

important activities include: Planning and conducting the Continuous Internal Assessment tests for each semester of all UG & PG students as per the College Academic Calendar. The final score is computed, considering various components of the continuous assessment processes. It is verified by the Examination Coordinators, Class Advisors and finally approved by the HOD, which is entered in the EMS by individual faculty members.

- Preparing examination schedules for practical examinations and appointing external examiners for the practical examinations from the panel of the examiners approved by Board of Studies (BoS) well in advance. End semester practical examination marks are to be entered in the EMS module by the examiners.
- Processing of results, announcement of results and printing of grade sheets; timeline is to be followed for each activity.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.5.3/COE%20OFFICE%20final.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.5.3/COE%20OFFICE%20final.pdf</a>

## 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

Every Department has prepared the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs). The Vision and Mission statements, PEOs, POs and PSOs are properly disseminated among all the students as follows .

- Hardcopy of Vision, Mission, PEOs and PSOs are distributed to the students and their parents/guardians during orientation meet in first year
- Displayed in all Classrooms, Laboratories and Notice boards
- Also, the Vision, Mission, PSOs and PEOs are made available on

Institute website <http://www.mahendra.info/>

- Awareness sessions were conducted in physical classroom and online sessions were conducted through Google meet to create

awareness among all students.

- While taking classes, each faculty member used to create awareness about Course Outcomes (COs) among the students. They also discuss about CO-PO mapping, assessment criteria, attainment, etc.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.6.1/2.6.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.6.1/2.6.1.index.pdf</a>

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

- Using the Bloom's Taxonomy action verbs COs are defined for all courses in the curriculum and syllabi.
- With a better understanding of the Course Outcomes, CO-PO mapping is made properly for all courses by the course coordinators and the same is duly verified by program coordinator.
- Curriculum gap if any is identified and minimized by introducing new subjects / augmented topics in the syllabus in addition to providing the contents beyond the syllabus towards the attainment of POs and PSOs.
- The faculty members used to calculate the CO attainment for their respective courses and the Department/Programme Coordinator(s) calculate the PO and PSO attainments. Much attention is given to the slow learners to improve their academic performance so as to improve the attainment level.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.6.2/Proof.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.6.2/Proof.pdf</a>

<b>2.6.3 - Pass Percentage of students</b>	
<b>2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution</b>	
990	
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	<a href="#">View File</a>
Paste link for the annual report	<a href="http://www.mahendra.info/NAAC/Criterion%202/2.6.3/2021-2022.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.6.3/2021-2022.pdf</a>
<b>2.7 - Student Satisfaction Survey</b>	
<b>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</b>	
<a href="http://www.mahendra.info/NAAC/Criterion%202/2.7.1/SSS.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.7.1/SSS.pdf</a>	
<b>RESEARCH, INNOVATIONS AND EXTENSION</b>	
<b>3.1 - Promotion of Research and Facilities</b>	
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	
<b>Response</b>	
<p>Mahendra Engineering College has modern laboratory facilities with Centers of Excellence in major disciplines of study to encourage faculty members and students to pursue research. The facilities are regularly updated using the funds from the Management and grants received from AICTE under MODROBS and RPS schemes. The Institute has a well-defined policy for promoting research and related activities. It can be accessed from the College website at <a href="http://www.mahendra.info/research.php">http://www.mahendra.info/research.php</a></p> <p>The Institution has 5 major Research Centers, offering Ph.D programmes in different disciplines, namely Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical</p>	

Engineering and related areas. The Institution has signed MoUs with industries such as Larson & Turbo Ltd., TVS Haritha, ICT Academy, ABE semiconductors, National Instruments, Vi Microsystems Ltd., Infosys Campus Connect etc., to promote a multidisciplinary research.

The College encourages young, energetic and experienced faculty members for the Research and Development (R&D) activities as per the Academic stream. The main objectives of R&D are:

- To acquire knowledge in Engineering and Science
- To propose novel Research ideas in all the fields of Science, Engineering and Technology
- To develop new Techniques and Tools for solving various social relevant issues with special attention
- To publish Papers in Web of Science (SCI/SCIE/SSCI), Scopus indexed and UGC recognized journals
- UGC, Governmental, and Non-Governmental Research projects have been undertaken.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="http://www.mahendra.info/research.php">http://www.mahendra.info/research.php</a>
Any additional information	<a href="#">View File</a>

### 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)

8.2

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

87

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 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)

13.15

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

11

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%203/3.2.2/2021-22.pdf">http://www.mahendra.info/NAAC/Criterion%203/3.2.2/2021-22.pdf</a>
List of research projects during the year	<a href="#">View File</a>

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

29

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

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

4

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="http://www.mahendra.info/NAAC/Criterion%203/3.2.4/2021-22.pdf">http://www.mahendra.info/NAAC/Criterion%203/3.2.4/2021-22.pdf</a>
Any additional information	<a href="#">View File</a>

## 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.

Our College has around 10 Centres of Excellence and an EDC, and has created a good ecosystem for creativity, innovation, new product development, and to promote entrepreneurship activities.

Our Institute's Innovation Cell (IIC) is ranked by MHRD-AICTE by 4-star rating for innovation and entrepreneurship activities and ranked in ARIIA Band 'B' (Ranks 26-50) by MHRD-AICTE during 2020 and ranked in ARIIA Band 'EXCELLENT', during 2021 in the category of Self-Financing Institutions.

The Departments have organized I & E activities, pre-incubation events for the benefit of students and faculty innovators. The details of dedicated Centers of Excellence, events/programmes organized, students/faculty participated, etc., are given in the ARIIA report 2020-21.

<http://www.mahendra.info/pdf/ARIIA-2020-21.pdf>

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/pdf/ARIIA-2020-21.pdf">http://www.mahendra.info/pdf/ARIIA-2020-21.pdf</a>

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

62

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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**

A. All 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	<a href="#">View File</a>

### 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

99

File Description	Documents
URL to the research page on HEI website	<a href="http://www.mahendra.info/NAAC/Criterion%203/3.4.2/3.4.2index.pdf">http://www.mahendra.info/NAAC/Criterion%203/3.4.2/3.4.2index.pdf</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	<a href="#">View File</a>

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

37

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

107

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%203/3.4.4/2021-22.pdf">http://www.mahendra.info/NAAC/Criterion%203/3.4.4/2021-22.pdf</a>

### 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

65

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

5

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	<a href="#">View File</a>

### 3.5 - Consultancy

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

20.02

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	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

#### 3.44

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	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

The Institution has 2 NSS Units lead by enthusiastic and energetic Programme Officers, who are instrumental in organizing extension activities in the Adopted Villages. To create awareness on the Social issues, the Institution has made it mandatory to all the Undergraduate students to enroll in any one of the club/ committee. Thus, providing an opportunity for them to learn the social issues and solving them as a team. A Seven- days camp is organized by NSS units every Academic Year, where the NSS Volunteers have to stay in the Adopted Villages and Serve the Community. This real time learning experience helps the Volunteers to understand the social issues and how to solve them

scientifically as a team.

The extension activities organized by the NSS units like Hazards of Drugs, Ban Plastic, Women Empowerment, Women Entrepreneurship Development, Road Safety Awareness, Helmet Awareness Rally, Blood Donation, Free- Medical Checkup Camp, Tree Plantation, Awareness on Human Rights, Consumer Rights, Conservation of nature, Aadhaar Enrolment and Correction Camp, Cyber Security Awareness, Digital Literacy, First Aid Training, Rain-Water Harvesting, Awareness about Government Schemes and Organ Donation. The NSS units organized outreach activities like Eradication of Child Marriage, Awareness on Child Abuse, Importance of Girl Child Education, Poshan Abhiyan and Awareness on COVID-19 and Vaccination.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%203/3.6.1/3-6-1-1.pdf">http://www.mahendra.info/NAAC/Criterion%203/3.6.1/3-6-1-1.pdf</a>

### 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

24

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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)

34

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

2811

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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**

146

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**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)**

12

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	<a href="#">View File</a>

**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.

Mahendra Engineering College (MEC) was established in the year 1995 by Shri.M.G.Bharathkumar, a renowned educationist and a

philanthropist with noble intent of educating the underprivileged in the Namakkal district. The college is an Autonomous Institution and an ISO 9001:2008 certified institution. The College is offering 16 Undergraduate and 9 Postgraduate courses in Engineering. Here the students are provided unparalleled state of infrastructure. The committed and dedicated faculty members employ innovative teaching learning techniques to create highly conducive environment for enjoyable learning.

The vision of our College is to be an internationally recognized institute for engineering education and research with ethical values. So the primary objective of the Institution is the pursuit of Academic Excellence, Research and Placements. The technical knowledge gained by the students is complimented by imbibing interpersonal skills and spirit of entrepreneurship that makes them competitive enough to face the global challenges and emerge as achievers. To accomplish this, the College has focused on the distinctive area of establishing the following Centre of Excellence in collaboration with prominent industries, through which students achieve their academic excellence to meet industrial standards.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%204/4.1.1/PROOF.pdf">http://www.mahendra.info/NAAC/Criterion%204/4.1.1/PROOF.pdf</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.)

Mahendra Engineering College (Autonomous) provides adequate facilities for Cultural activities, Yoga, Sports and Games (indoor and outdoor), Gymnasium and Auditorium.

#### Sports and Games:

The Department of Physical Education in the institution is well equipped with various facilities in sports and games both indoor and outdoor. The College has indoor game facilities like Chess, Carom, Ball Badminton and outdoor game facilities such as Cricket ground, Volley ball court, Basketball court and Football ground.

#### National Cadet Corps (NCC):

The institution is equipped with several infrastructural facilities for NCC training programme and provides ample opportunities to the Cadets by conducting Weapon training, Firing, Drill practices, Personality Development and Social Service Programmes. Additional coaching is given to the NCC Cadets to write the "B" and "C" certificate exams.

#### NationalService Scheme (NSS):

The institution provides the National Service Scheme to develop the personality and character of the student through voluntary community service.

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://www.mahendra.info/NAAC/Criterion%204/4.1.2/PROOF.pdf">http://www.mahendra.info/NAAC/Criterion%204/4.1.2/PROOF.pdf</a>

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

71

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

352.77

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	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

The Mahendra Engineering College (Autonomous) has a Centralized Library & Information Centre with a carpet area of 17029 Sq.ft with a total seating capacity of 250 persons. It is located in the ground floor of the Library Block. In addition to that, 12 Departments have their own department libraries and each department library is managed by a faculty-in-charge. The Library has a huge collection of over 112564 volumes of Books (Text, Reference and Rare Books), 292 National & International Journals, E-Journals - 2000+, E-Books-3000+, 9 Newspapers, 4625 Project Documents, 1114 Back Volumes and 6036 CDs/DVDs in the field of Management, Science, Engineering and Technology.

The Library functions with fully automated 6 Desktop Computers kept in different sections of the library and it is connected to the Central Server to store and retrieve data regarding the resources, users, and any other activities.

- The Library is fully computerized and automated using Bloom Technologies Library Management Software (LMS) with DDC coding, Magnetic Scanner, and Bar-Coding with Acquisition Management, Cataloguing, Serial Management, Report Management, Circulation services (Issue, Return and Renewal of books) facilities enabling the users to faster accessing to the Library.
- Online Public Access Catalogue (OPAC) facility makes book searches easier with various options such as Title, Author, Keyword(s) and Subject(s) etc... to the users.
- Auto due reminder to users through E-mail (Issue, Return and Renewal of books and over dues )



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%204/4.2.1/4-2-1.pdf">http://www.mahendra.info/NAAC/Criterion%204/4.2.1/4-2-1.pdf</a>

**4.2.2 - Institution has access to the following:  
e-journals e-ShodhSindhu Shodhganga  
Membership e-books Databases Remote  
access to e-resources**

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

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

**15.36**

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

**1087**

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 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

Availability and utilization of cutting-edge Information Technology (IT) resources and infrastructure of an organization make its product and process qualitative as well as effective. IT infrastructures have become the most important resources in Technical Educational Institutions. Realizing the significance of these, Mahendra Engineering College took initiative on a strong IT policy from 2009 onwards, starting from the User Policy, Network Policy, Desktop Policy, Server Policy, Internet Policy, have amplified in many folds. At present, the institution is having 1282 number of desktop machines connected with the network spreading over the entire campus including hostel through Single/Multi-core Fiber Optic with the redundancy and 100/1000 Mbps Co-axial cables. The institution is maintaining a managed Intranet and Hardware Firewall Policy based Internet Connection. The campus is also enabled with Secured Wi-Fi Access. The total Internet bandwidth is 350 Mbps (Leased Line with 1:1). At Data Centre, all the Servers like, Active Directory, DHCP, DNS and application servers are running along with the Routers, Firewalls and Layer L2 and L3 switches. This IT policy also applies to the resources administered by the central administrative departments such as Library, Computer Laboratories, Offices of the Institute, or hostel and guest houses wherever the network facility was provided by the institute. This policy applies to the following stake holders of Students, Faculty members, Administrative staff (Technical/non-Technical).

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/downloads/AOAR_2020-21/4_3_1.pdf">http://www.mahendra.info/downloads/AOAR_2020-21/4_3_1.pdf</a>

### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4398	1282

File Description	Documents
Upload any additional information	<a href="#">View File</a>
<b>4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus</b>	<b>A. 750 Mbps</b>
File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
<b>4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing</b>	<b>A. All four of the above</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%204/4.3.4/proof.pdf">http://www.mahendra.info/NAAC/Criterion%204/4.3.4/proof.pdf</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>
<b>4.4 - Maintenance of Campus Infrastructure</b>	
<b>4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)</b>	
<b>221.33</b>	
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.

The College has well established standard systems and procedures for maintaining the Physical, Academic and Support facilities. The Faculty members and Staff In-charge ensure various aspects of utilization and maintenance of Physical, Academic and Support facilities, Classrooms, Laboratories, Library, Computers, Hostels, Sports complex, etc.

The proper working of equipment in all Laboratories is ensured by the Lab Technicians and minor preservation such as installing, replacement of parts are carried out by them as and when needed and the same is documented in service register. Stock register is maintained in all Laboratories and audits are conducted to check the availability and working condition of the equipment every year.

#### Maintenance of Garden

In our College, we are maintaining the garden through regular watering, thinning, weeding, fertilizing, mulching, composting, and monitoring for pests. These activities promote healthy plants. The garden provides all live basic needs of plants such as water, light, nutrients, air, and a place to grow. We have wide green gardens on the campus.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/downloads/AQAR_2020-21/4_4_2_Maintenance_Policy.pdf">http://www.mahendra.info/downloads/AQAR_2020-21/4_4_2_Maintenance_Policy.pdf</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

3171

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

1063

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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="http://www.mahendra.info/NAAC/Criterion%202/2.1.1/2.1.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.1.1/2.1.1.index.pdf</a> <a href="http://www.mahendra.info/NAAC/Criterion%202/2.1.1/2.1.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%202/2.1.1/2.1.1.index.pdf</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

2288

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited 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>

## **5.2 - Student Progression**

### **5.2.1 - Number of outgoing students who got placement during the year**

**693**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### **5.2.2 - Number of outgoing students progressing to higher education**

23

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

#### 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

5

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

#### 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

3

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

In our Institution, students are actively participating in academic and administrative bodies/committees. The student representatives are involved in academic committees such as Class Committee wherein they participate and provide feedback on teaching to improve the academic system. Students actively

participate in Department Students' Association and Professional Societies. Students are also representatives in various administrative committees such as Anti-ragging Committee, Students Grievance Redressal Committee, Internal Complaints Committee (Prevention of Sexual Harassment). Students also participate in extra-curricular activities such as NSS, NCC and YRC. In continuation of these activities students are participating in several awareness programs in order to have societal awareness on rain water harvesting and plastic-free environment, etc. The outstanding performers act as mentors to other 15 students who will be the mentees to receive guidance. The mentor-mentee system of 1:15 focuses on counselling students (slow learners) and promotes the collaborative learning in academic activities and career guidance. Students also play active role in the department association activities like workshops, symposium, conference, etc. The key role of the student representative is governing the program committee, planning and execution of activities. Majority of the students are registered under various professional societies like IE(I), ICI, CSI, ISTE, EWB, IEEE and ASCE.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/downloads/AQAR_2020-21/5_3_2.pdf">http://www.mahendra.info/downloads/AQAR_2020-21/5_3_2.pdf</a>

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

23

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	<a href="#">View File</a>

### 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

**Alumni Association plays a prime role in networking the graduates**



with the Institution. Our Institution has an active Alumni Association with the office bearers as given below: Chairman - Dr.S.Raju, Professor and Head / Information and Technology, 2. Secretary -Dr.N.Viswanathan, Professor and Head / Electronics and Communication Engineering, 3. Treasurer - Mr.S.Premkumar, Assistant Professor, Computer Science and Engineering, and Alumni members. The Alumni Association meets every year and conduct the General Body Meeting to decide important activities such as Alumni day celebration, alumni meet and alumni mentors, etc. The Mahendra alumni meet is conducted at national and international level. In the national level the alumni meets are conducted at Bangalore, Coimbatore, Chennai and various places. The students working in those regions are gathered and alumni day has been celebrated to share their experience and industrial exposure to the students. Alumni meet is also conducted at international level wherein the students working abroad gather and observe the alumni day. The Institution has initiated a novel Mahendra Alumni Interactive Lecture Series (MAILS), wherein the alumni are invited by each department to deliver special lectures to the students to enable them gain the field exposure, technical skills, employment and entrepreneurship skills. Every Department organises around 6-10 MAILS programs in a year, and also alumni mentors have been identified for every 250 students in order to guide them for their better placements and technical knowledge sharing, etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://alumni.mahendra.info/gallery.php?page=public">http://alumni.mahendra.info/gallery.php?page=public</a>

<b>5.4.2 - Alumni's financial contribution during the year</b>	<b>A. ? 15 Lakhs</b>
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File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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

The Institute is governed by the Governing Council consisting of the Chairman, Management representatives, Experts from academia, industry and the Principal. The collective leadership continuously focuses on the Vision and Mission of the Institute. Offering good quality engineering education and pursuing research with ethical values are the two key features in the vision statement as perceived by the institute leadership. The mission statement spells out the means or strategy to accomplish the vision. The Institute has well established modern infrastructure and standard academic system in place to mould the students are professionals. The College has established Centres of Excellence in many prominent and emerging areas for active industry-institute interaction to train the students for current industrial needs and also enable the faculty members to participate in research activities in emerging areas. The professional practices of the Management and academic leadership is highly useful to inculcate ethical values amongst faculty members and students.

The Governing Council meets at regular intervals and reviews the activities of the institution and provides able guidance for further improvement keeping the vision and mission, short-term and long-term goals in perspective. IQAC plays vital role in framing and implementation of academic policies to continually improve the quality of education.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.1.1/proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.1.1/proof.pdf</a>

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

The Institution functions with a decentralized governance system. The Head of the Institution is functioning effectively with the culture of participative management. He plans and decides the Academic Calendar for each semester in consultation with the HODs and Management. The Academic Calendar consists of Total no. of Working days, Holidays, Internal Test slots, Department Activities/Events, Exam fees payment dates, , FDPs, Last working day, End Semester Examination duration, Reopening date for the next semester, etc. It is circulated amongst all faculty members and students for their information and record. The Heads of the

Departments plan and decide the academic activities and assign the responsibilities to the faculty members.

The Institution encourages participation from stakeholders, which enables the faculty members and students to give their feedback and suggestions for improvement of the academic and co-curricular activities. All the academic activities are decentralized and decisions are taken based on discussion with class committee meetings, department meetings, HODs' meetings with the Principal.

The Boards of Studies in each Department prepares the curriculum and syllabi for the UG and PG programmes. It is approved in the Academic Council meeting. The policy decisions are taken in the Governing Council meeting. The Finance Committee meeting and Result Passing Board meetings are conducted periodically. The meeting of other non-statutory Committees such as Anti-ragging Committee, Discipline Committee, Grievance Redressal Committee, Internal Complaints Committee are conducted periodically, wherein the representatives of students and faculty members are present and give feedback and opinions.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.1.2/Proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.1.2/Proof.pdf</a>

## 6.2 - Strategy Development and Deployment

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

The Institutional strategic/perspective plan is described below:

(i) Starting new courses in emerging areas and Admission of Students:

The Institute with a strategic plan starts new courses in emerging and futuristic technological areas. Admission plays vital role for the growth of every College. Admission rules and regulations are articulated as per the Tamilnadu State Government and Directorate of Technical Education in respect of Single Window Counselling and

Management quota seats.

(ii) Industry-Institute Interaction / Collaboration:

The Mission of the College emphasizes on Industry-Institute interaction for effective training of students for successful placement, adoption of innovative and current practices in the industry.

(iii) CBCS and Innovative Teaching-Learning

The College has implemented the Choice Based Credit System in all Programmes based upon the AICTE model curriculum and recent trends in industry to enable graduates for successful placement and to pursue higher education, entrepreneurship, etc.

The following initiatives are taken to enhance the quality of education:

- Faculty Development Programmes are organized by the Departments and Faculty members are encouraged to pursue NPTEL courses in their subject-specific areas to enhance teaching-learning.
- Introduction of innovative Add-on/Value Added and Certificate Courses for both students and faculty members

(iv) Research and Development

During last five academic years, faculties has contributed research publication in National and International Journals, Also, their findings were presented in International and National Conference / Seminars.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/downloads/AQAR_2020-21/6_2_1.pdf">http://www.mahendra.info/downloads/AQAR_2020-21/6_2_1.pdf</a>
Upload any additional information	<a href="#">View File</a>

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.

Mahendra Engineering College has an established system for administration and academic activities. The statutory bodies such as Governing body, Academic Council, Finance Committee and Board of Studies for every department are constituted with eminent personalities as per UGC guidelines. All these bodies meet regularly and deliberate on policy, academic, financial, curriculum and related matters. The minutes of the meetings and outcome is shared with the HODs, faculty members and other members for information and execution.

Several non-statutory committees as per UGC/AICTE guidelines are constituted and there is a good representation from faculty members and students in such committees to ensure participation, transparency and easy flow of information at all levels.

The College maintains the desired faculty-student ratio as per IACTE norms and recruits faculty members and non-teaching staff on regular basis. Appointment orders are issued to those who are recruited and as and when they join, they are given awareness on their duties and responsibilities, procedures, service rules, etc.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.2.2/6.2.2index 1.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.2.2/6.2.2index 1.pdf</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.2.2/proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.2.2/proof.pdf</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) Document	<a href="#">View File</a>
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	<a href="#">View File</a>

### 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

The College has good welfare measures for teaching and non-teaching staff and students as described below:

#### For Teaching Staff:

- Free transport facilities.
- Waiver of fees for teachers' children in the Institution.
- Medical leave and Maternity leave.
- Supporting for education of children of the teachers in the group institutions.
- Marriage gifts with the sanction of one week leave
- Sponsoring for attending conference, workshops and FDPs for career progression
- Incentive for publication of papers / research articles, patents, books.
- Rewards, Medals for producing University Ranks.
- Cash awards for academic excellence.
- Special Study Leave (SSL) to pursue higher education.
- Subsidized canteen fares.
- Group Insurance.
- Online NPTEL course fee reimbursement for career progression.

#### For Non-Teaching Staff:

- Educational support to the children of the staff.
- Marriage gifts with the sanction of one week leave.
- Medical leave / maternity leave.
- Free transport facilities.
- Special Study Leave (SSL) for higher studies.
- Incentive for attending orientation programmes, workshops

and conferences.

- Incentive for vehicle utilization or transport allowance.
- Incentive for dress materials for housekeeping staff.
- Subsidized canteen fare.
- Group Insurance.

For Students:

- Government Scholarships,
- Management Scholarships.
- Free Transport facilities to SC/ST Students,
- Free food and Hostel facilities to SC/ST Students.
- Cash awards for University Rank Holders, Semester Toppers.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.3.1/The%20Institution%20has%20effective%20welfare%20measures.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.3.1/The%20Institution%20has%20effective%20welfare%20measures.pdf</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**

248

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

15

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	<a href="#">View File</a>

#### **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.)**

260

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### **6.4 - Financial Management and Resource Mobilization**

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

Mahendra Educational Trust has qualified Chartered Accountants (Internal Auditors) to supervise the Internal Audit functions and ensure that all the procedures and guidelines set by the Board of Governance and Management are strictly adhered to while carrying out the transactions. The Chartered Accountants also ensure that the recording of transactions are carried out in the ERP and participate in the purchase procedure/approval initiated by the respective HOD/ Dean of the faculty. Apart from the above Mahendra Educational Trust has two External Internal Auditors for carrying out the procedural, transactional and compliance Audit and submit their reports. They submit either Quarterly or Half Yearly Audit reports with their observations and highlighting the corrective measures that need to be taken to ensure proper financial transactions and management. In addition the Finance Committee meeting is conducted regularly, which look into yearly budget allocation, utilization funds, expenditure, etc.



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.4.1/6.4.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.4.1/6.4.1.index.pdf</a>

#### 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	<a href="#">View File</a>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

The major source of mobilization of fund is the fee from students. The other sources include the grants received from Govt. and other organizations for research and consultancy activities. Revenue is also generated from conducting Govt., exams and by extending testing services to nearby industries, and offering values added courses and training to the students. The funds generated are optimally utilized to meet the recurring, non-recurring, maintenance and related expenditure during every financial year.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.4.3/Institutional%20strategies%20for%20mobilisation%20of%20funds%20and%20the%20optimal%20utilisation%20of%20resources.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.4.3/Institutional%20strategies%20for%20mobilisation%20of%20funds%20and%20the%20optimal%20utilisation%20of%20resources.pdf</a>

#### 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)

IQAC has contributed significantly to institutionalize quality procedures and assurance strategies, which has brought incremental improvements in the following areas.

(a) Academics: (i) Students pass(%) : UG : 90.43 % PG : 98.54 %

(ii) Graduation Index : 91.30 %

(iii) Placement : UG : 91.94 % PG : 96.29 %

(b) Research: (i) Publications: 131 (Journals) (ii) Conferences: 112 (Conferences)

(iii) Patents: 14

(iv) Research grants received: 57 Lakhs

IIC organized ----- programmes in the themes of Creativity, Design, Ideation, Research, Start-up, Entrepreneurship, etc. Our Institute's Innovation Cell (IIC) is ranked by MHRD-AICTE by 4-star rating for innovation and entrepreneurship activities and ranked in ARIIA Band 'B' (Ranks 26-50) by MHRD-AICTE during 2020 and ranked in ARIIA Band 'EXCELLENT', during 2021 in the category of Self-Financing Institutions.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.5.1/proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.5.1/proof.pdf</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 plays a vital role in quality assurance and continuous improvement. IAQC, through regular Internal Quality Audit, reviews the teaching-learning process, adherence to procedures, updating documents, etc. Three Class Committee meetings are conducted during every semester to get feedback from faculty members and

student representatives to review and improve teaching-learning. Feedback from the students is also obtained during every semester. It is collected and consolidated by Class Advisers, analyzed and any corrective action needed is taken by the concerned HOD/Department. Also faculty performance appraisal using AICTE 360 degree appraisal format is introduced for overall improvement.

IQAC also conducts an External Audit by External Peer Team, once in a year, which reviews the academic activities, progress, improvement, and suggests measures for sustenance or further improvement.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.5.2/proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.5.2/proof.pdf</a>

**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	<a href="http://www.mahendra.info/NAAC/Criterion%206/6.5.3/proof.pdf">http://www.mahendra.info/NAAC/Criterion%206/6.5.3/proof.pdf</a>
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	<a href="#">View File</a>

## **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

Mahendra Engineering College strives to provide an equal opportunity that encourages women members' overall professional and personal advancement. The Institute constantly strives to ensure that women from all walks of life on the campus are treated with respect and dignity. It is committed to making the environment safe and congenial for female students, staff. Mahendra Engineering College has established a "Women Empowerment Cell" (WEC) on October 31, 2017. The cell mandates programmes aimed at sensitizing the community towards gender equity and related issues. The cell's goal is to raise awareness about rights and responsibilities, as well as to provide a forum for discussion and deliberation on a variety of issues ranging from opportunities to empowerment. The goal of WEC is to bring about the advancement, development, and empowerment of women.

#### Objectives

1. To create awareness about women's rights and to empower the female students and staff.
2. To promote a respectful ethnicity and gender equality for female students and staff.
3. To hold orientation programs, seminars, and workshops to educate women about the opportunities and tools available for their safety in society.
4. To create a conducive environment for women to share their problems.
5. To conduct awareness programmes on preventive measures for female health issues.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="http://www.mahendra.info/NAAC/Criterion%207/7.1.1/7.1.1.index.pdf">http://www.mahendra.info/NAAC/Criterion%207/7.1.1/7.1.1.index.pdf</a>

**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**

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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)

The waste is typically generated by all of the college's routine day-to-day activities. It includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The supervisor in each block ensures that the waste on each floor is collected at regular intervals. The cleaning workers in each block and floor collect, clean, segregate, and compile the waste in the dustbins provided at each floor. The floor dustbins are emptied and taken to the dumping yard provided by the college. The college has local vendors who collect the waste from the designated place, segregate it, recycle it, and dispose of it. There are two types of liquid waste generated by the college. 1. Sewage waste, 2. Laboratory, laundry, and cafeteria effluent waste is treated at waste water treatment plants, and the water is used for plants and trees. The electronic wastes of flip-flops, memory chips, motherboards, compact discs, cartridges, etc. generated by computers, radios, TV, Phones, Printers, Fax and photocopiers are recycled properly. Instead of buying a new machine, the buyback option is taken for technology upgrades. The e-waste generated from hardware that cannot be reused or recycled is being disposed of centrally through local vendors. The institution has a waste water treatment plant, and the same will be utilised in the gardens.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**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**

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

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

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

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

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

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

**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>A. Any 4 or all of the above</b></p>										
<table border="1"> <thead> <tr> <th data-bbox="86 689 539 757">File Description</th> <th data-bbox="539 689 1439 757">Documents</th> </tr> </thead> <tbody> <tr> <td data-bbox="86 757 539 898">Reports on environment and energy audits submitted by the auditing agency</td> <td data-bbox="539 757 1439 898" style="text-align: center;"><a href="#">View File</a></td> </tr> <tr> <td data-bbox="86 898 539 1003">Certification by the auditing agency</td> <td data-bbox="539 898 1439 1003" style="text-align: center;"><a href="#">View File</a></td> </tr> <tr> <td data-bbox="86 1003 539 1108">Certificates of the awards received</td> <td data-bbox="539 1003 1439 1108" style="text-align: center;"><a href="#">View File</a></td> </tr> <tr> <td data-bbox="86 1108 539 1169">Any other relevant information</td> <td data-bbox="539 1108 1439 1169" style="text-align: center;"><a href="#">View File</a></td> </tr> </tbody> </table>		File Description	Documents	Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>	Certification by the auditing agency	<a href="#">View File</a>	Certificates of the awards received	<a href="#">View File</a>	Any other relevant information	<a href="#">View File</a>
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Any other relevant information	<a href="#">View File</a>										
<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>A. Any 4 or all of the above</b></p>										

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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).

Our College admits students from various parts of the nation, belonging to various cultures, regions, religions, linguistic communities and socio-economic backgrounds and has thus created an inclusive environment in terms of diversity, outreach, equality, fairness, tolerance and harmony. The Vision and Mission of the Institute focus on ethical values, harmony, universal human values, etc. All are treated equally with dignity and to promote professional climate and congenial environment. In order to promote good interaction and mix of students from different diversities, several Clubs, NSS, NCC, RRC, Sports activities are organised and students are encouraged to participate actively.

- The NSS unit of our College regularly organizes Plantation programme to encourage students to participate and to make the campus more eco-friendly. Trees increase oxygen level in environment, and make the campus green and airy.
- The NSS unit also organized Plastic free awareness rally to make the environment clean and sustainable. In addition to students many public participated on their own interest in the plastic free awareness rally around the village.
- Awareness created among the public against unnecessary honking, working with the Govt. authorities to enforce the prevailing rules and also bring about new regulation based on the model of other "Honk Free Cities" in the world.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>



7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The College organizes Induction programme for the First year students wherein they are sensitized about importance of engineering education, goals, career, life skills, Universal Human Values, etc. An awareness programme for the newly recruited faculty members is organized during every year to sensitize the faculty members on the importance of Engineering education, their duties and responsibilities, obligations, etc.

Important courses such as Professional Ethics and Human Values, Universal Human Values, Constitution of India have been introduced as mandatory courses for all programmes of engineering to enable students acquire the essence of Human Values, Gender Equity, Fraternity, Harmony, Right Understanding, Complementariness, Constitutional obligations, fundamental rights, duties and responsibilities of citizens, ethical human conduct, trustworthiness and mutual cooperation, etc. More than 25 faculty members including the Principal participated in the 5-day workshop on Universal Human Values organized by AICTE during 2020-21 and benefitted from the essence of human values, ethics, rights, duties, harmony, etc. Many of these faculty members teach the Universal Human Values course to all UG students. In addition they have understood the importance of Constitution of India and some of them teach the mandatory audit course, Constitution of India to all UG students.

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	<a href="#">View File</a>

**7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts 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**

A. All of the above

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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

The institution imparts the feelings of patriotisms in students and staff members by celebrating the republic Day the date on which the Constitution of India came into effect on 26 January 1950 replacing the Government of India Act (1935) as the governing document of India and thus, turning the nation into a newly formed republic. Our institution celebrates the Republic Day every year.

International Women's Day is a time to reflect on progress made, to call for change and to celebrate acts of courage and determination by ordinary women, who have played an extraordinary role in the history of their countries and communities. Our college is also celebrated International Women's Day on 8 March, 2022.

Spreading growth, development and peace throughout the world. Making the people aware of physical and mental illnesses and providing solutions through yoga. It also aims to develop a habit of meditation for peace of mind, self-awareness which is necessary to survive in a stress free environment. Our college encourages yoga activities and women empowerment cell organizes a small workshop on Yoga and its significance to students and Faculty Members.

Independence Day marks the end of British rule in 1947 and the establishment of a free and independent Indian nation. It is also marks the anniversary of the partition of the subcontinent into two countries, India and Pakistan, which occurred at midnight on August 14-15, 1947. Our College celebrated this auspicious day

with a great enthusiasm and proudness on 15th August 2022. the institution is also celebrating other memorable days.

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	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

## 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

<http://www.mahendra.info/iqac.php>

File Description	Documents
Best practices in the Institutional website	<a href="http://www.mahendra.info/iqac.php">http://www.mahendra.info/iqac.php</a>
Any other relevant information	<a href="http://www.mahendra.info/iqac.php">http://www.mahendra.info/iqac.php</a>

## 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 vision of our College is to be an internationally recognized institute for engineering education and research with ethical values. So the primary objective of the Institution is the pursuit of Academic Excellence, Research and Placements. The technical knowledge gained by the students is complimented by imbibing interpersonal skills and spirit of entrepreneurship that makes them competitive enough to face the global challenges and emerge as achievers. To achieve this, the College has focused on the distinctive area of establishing various Centres of Excellence in collaboration with prominent industries, through which students achieve their academic excellence to meet industrial standards.

File Description	Documents
Appropriate link in the institutional website	<a href="http://www.mahendra.info/centres.php">http://www.mahendra.info/centres.php</a>
Any other relevant information	<a href="#">View File</a>

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

The College has planned the following activities for the next academic year:

- To sign more MoUs and enhance tie-up with premier academic institutions and local industries for enhanced exposure to students and faculty members.
- To organize workshops and conferences by collaborating with Industries/Organisations.
- To organize Alumni meet in order to create Alumni centres in important cities in India and Abroad.

To enhance training for students to improve their communication, aptitude and

- technical skills for improved placement.
- To establish Virtual laboratories for some practical labs.
- To promote more number of IIC activities to improve ARIIA ranking and achieve NIRF ranking.
- To organize an International Conference.
- To enhance collaboration with more foreign universities
- To apply for NAAC accreditation in cycle 2.
- To plan for NBA accreditation for other eligible Programmes.