

YEARLY STATUS REPORT - 2022-2023

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 Yes

campus?

• 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

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• 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/igac.php

4. Was the Academic Calendar prepared for that year?

• if yes, whether it is uploaded in the Institutional website Web link:

http://www.mahendra.info/academic

<u>calendar.php</u>

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	A++	3.55	2023	19/07/2023	18/07/2028

Yes

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/ Depart ment/Faculty/Sch ool	Scheme	Funding Agency	Year of Award with Duration	Amount
Nil	Nil	Nil	Nil	Nil

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

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

• If yes, mention the amount

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

1. Internal Academic audit is conducted every semester to monitor the quality of academic processes. 2. External peer committee report has been reviewed and action plan was made to improve the areas of concern. The following improvements are accomplished: • Through KAPILA Scheme 19 patents were filed and published. Received partial grant of Rs. 53,000 from AICTE for published Patents. • Our college is MSME approved Host Institution for "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators". • No. of Start-up ideas approved: 03 • Total amount sanctioned for start-up ideas: 39.9 Lakhs • Participated in ATAL ranking of institutions on innovations achievements ARIIA 2022 . • IIC received 4-Star rating from MHRD - AICTE for the Year 2022 • Received Best Green Campus Award from Nature Science Foundation 2023. • Signed MoUs with namely TANCAM, L&T Mindtree, Desaot, etc for training students. 3. Three UG Programmes namely B.E. CSE, B.E ECE and B.E EEE are further accredited by NBA from 2022-2025. 4. Introduced Regulations 2022 and revised the curriculum and syllabi for all programmes. The overall percentage revision in syllabi = 27.5 %. New courses introduced = 289. 5. Extensive training is conducted for students in the areas of Aptitude, Programming and communication, soft skills. Number of students placed = 764/990.

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:

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Plan of Action	Achievements/Outcomes
Admission	89.21%
Result	97.63
Research paper published	67
Patent Published	23
Books and Books Chapter published	15
Research Seed money provided to faculty members	3.40 Lakhs
Placement	77 %

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

• Name of the statutory body

Name of the statutory body	Date of meeting(s)
Academic Council	15/05/2023

Yes

14. Was the institutional data submitted to AISHE?

• Year

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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-	Dr.C.T.Sivakumar			

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ordinator	c/Director							
• Phone No.			04288288599					
Mobile No:			944213	0662				
• IQAC e-	mail ID			sivaku	mar@	mahendr	a.or	g
3.Website address (Web link of the AQAR (Previous Academic Year)			http://mahendra.info/igac.php					
4. Was the Academic Calendar prepared for that year?			Yes					
•	hether it is uploa onal website Web		the	http:/ c_cale			ra.i	nfo/academi
5.Accreditation	Details							
Cycle	Grade	CGPA	A	Year of Accredit	Year of Accreditation		rom	Validity to
Cycle 2	A++	3.55		2023	2023 1		202	18/07/202
6.Date of Estab	lishment of IQA	AC		01/11/2012				
7.Provide the li Institution/Dep Bank/CPE of U Institution/ Dep tment/Faculty/S	artment/Facult			CSIR/DS	T/DB7		EQII	
Nil	hool Nil N		Ni	il Nil			Nil	
8.Provide detai	ls regarding the	comp	osition of	the IQA	C:			
-	ne latest notification of the IQAC l	_	•	View File	<u>e</u>			
9.No. of IQAC	meetings held d	uring 1	the year	4				
 Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 			Yes					

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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	
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Name of the statutory body

Name of the statutory body	Date of meeting(s)
Academic Council	15/05/2023
14.Was the institutional data submitted to AISHE ?	Yes

Yes

Year

Year	Date of Submission	
2022-23	15/03/2023	

15. Multidisciplinary / interdisciplinary

The Choice Based Credit System facilitates students to learn professional courses, interdisciplinary and multidisciplinary courses. 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

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professional core courses and advanced concepts in professional elective courses, which enhance their analytical and problemsolving 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, work in multidisciplinary areas, innovate and develop novel products/process. Working in inter-disciplinary/ multi-disciplinary teams, facilitate students to work on wide ranging projects, preparing reports and making 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):

Mahendra Engineering College, is offering technical education courses approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The college has advised the students to create their own Digilockers and ABC IDs. The candidates receive their Degree certificates from the affiliating university. So the university will upload degree certificates of graduates in their Digilockers to maintain Academic Bank of Credits.

17.Skill development:

The Mission of the College emphasizes on Industry-Institute interaction for effective training and skill development 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 enhance their skills and achieve academic excellence to meet industrial needs. 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

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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, MindTree and other companies that use AI and app development. TANCAM and DESAOT Centre of Excellence is established in 2023. The improved skill development helps to increase the employability of students.

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

In order to preserve and promote our culture and tradition, an essence of Indian Knowledge systems (Teaching in Indian Languages/ Local Languages) is envisaged in the curriculum and Syllabi. In this direction two 1-credit courses are introduced on Heritage of Tamils, Tamils and Technology, which enable students to learn about the local language, culture, tradition and heritage.

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Innovative curricula shall include courses and projects in the areas of community engagement and service, environmental education, and Value-based education that focuses on development of humanistic, ethical, constitutional, and universal human values, and also life skills;. Two 3-credit Open Electives on NSS, NCC are introduced in R-2022 to focus on seva/service and participation in community service programmes.

A 3-credit Mandatory course on Universal Human Values is introduced in R 2019 (Amended) & R 2022. Mandatory courses on Environmental Science and Constitution of India are introduced in R 2019 (Amended) & R 2022.

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.

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				
1.Programme				
1.1	29			
Number of programmes offered during the year:				
File Description	Documents			
Institutional Data in Prescribed Format	<u>View File</u>			
2.Student				
2.1	5020			
Total number of students during the year:				
File Description	Documents			
Institutional data in Prescribed format	<u>View File</u>			
2.2	1073			
Number of outgoing / final year students during the	ne year:			
File Description	Documents			
Institutional Data in Prescribed Format	<u>View File</u>			
2.3	4610			

File Description	Documents	
Institutional Data in Prescribed Format		View File
3.Academic		
3.1		796
Number of courses in all programmes during the	year:	
File Description	Documents	
Institutional Data in Prescribed Format		View File
3.2		409
Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format		View File
3.3		409
Number of sanctioned posts for the year:		
4.Institution		
4.1		1206
Number of seats earmarked for reserved categorie GOI/State Government during the year:	es as per	
4.2		109
Total number of Classrooms and Seminar halls		
4.3		1282
Total number of computers on campus for acaden	nic purposes	
4.4		1511.59
Total expenditure, excluding salary, during the year (INR in Lakhs):		
Lakhs):	(

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CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

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

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.

File Description	Documents
Upload additional information, if any	<u>View File</u>
Link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%201/1.1.1/1.1.lindex.pdf

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

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<u>View File</u>
Details of syllabus revision during the year	<u>View File</u>
Any additional information	<u>View File</u>

${\bf 1.1.3 - Number\ of\ courses\ focusing\ on\ employability/entrepreneurship/\ skill\ development\ offered\ by\ the\ Institution\ during\ the\ year}$

735

File Description	Documents
Curriculum / Syllabus of such courses	<u>View File</u>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<u>View File</u>
MoUs with relevant organizations for these courses, if any	<u>View File</u>
Any additional information	<u>View File</u>

1.2 - Academic Flexibility

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

289

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<u>View File</u>
Any additional information	<u>View File</u>
Institutional data in prescribed format (Data Template)	<u>View File</u>

${\bf 1.2.2 - Number\ of\ Programmes\ offered\ through\ Choice\ Based\ Credit\ System\ (CBCS)/Elective\ Course\ System}$

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<u>View File</u>
Any additional information	<u>View File</u>
List of Add on /Certificate programs (Data Template)	<u>View File</u>

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

The institution aims to address the cross-cutting issues which are relevant to Environment & Sustainability, Human Values & Professional Ethics and Gender by including the related courses in the curriculum. In addition to the regular courses,

Professional Ethics and Human Values:

All the first-year B.E/B.Tech students go through a 3-week induction programme that teaches them about ethics and human values, in accordance with AICTE rules and regulations. Faculty members who took part in the AICTE Universal Human Value programme handle the sessions. The college has an active National Service Scheme unit Students engage in a variety of outreach social activities that help them build relationships with their local communities and support their development and also organizes events like blood donation camps and visits to orphanages.

Gender Sensitization:

Gender related courses are an integral component of every programme offered in the college. Students are sensitized and encouraged to work towards gender equality from a cross-cultural perspective. Free counseling services are provided through a Counseling Cell. Gender sensitization camps are organized that include women's rights, human rights, child rights, gender justice and gender equality. Women empowerment cell is fully active and takes care of all gender based bias and issues in the campus.

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	<u>View File</u>
Any additional information	<u>View File</u>

${\bf 1.3.2}$ - Number of value-added courses for imparting transferable and life skills offered during the year

31

File Description	Documents
List of value-added courses	<u>View File</u>
Brochure or any other document relating to value-added courses	<u>View File</u>
Any additional information	<u>View File</u>

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

2743

File Description	Documents
List of students enrolled	<u>View File</u>
Any additional information	<u>View File</u>

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

2506

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<u>View File</u>
Any additional information	<u>View File</u>

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is

A. All 4 of the above

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obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	http://mahendra.info/AQAR-2022-23/Criterio n%201/1.4.1/1.4.1index.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<u>View File</u>
Any additional information	<u>View File</u>

1.4.2 - The feedback system of the Institution comprises the following

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

File Description	Documents
Provide URL for stakeholders' feedback report	http://mahendra.info/AQAR-2022-23/Criterio n%201/1.4.2/1.4.2index.pdf
Any additional information	<u>View File</u>

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

1403

File Description	Documents
Any additional information	<u>View File</u>
Institutional data in prescribed format	<u>View File</u>

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)

File Description	Documents
Any additional information	<u>View File</u>
Number of seats filled against seats reserved (Data Template)	<u>View File</u>

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 cocurricular 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.Motivating the students to apply for meritorious awards in professional bodies like Indian Society for Technical Education, Institution of Engineers (India), Institute of Electrical and Electronics Engineers (IEEE), etc.Students are encouraged to take part in the event named "Pentafest" which comprises Techo fest, Sports fest, Cultural fest, Achievers fest, and Pongal vizha and the top scores in academics and various events are awarded with cash prizes and medals.Professional training on C, C++, Java, AutoCAD, Solid works,

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://mahendra.info/AQAR-2022-23/Criterio n%202/2.2.1/2.2.1index.pdf

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2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
29/04/2024	4658	409

File Description	Documents
Upload any additional information	<u>View File</u>

2.3 - Teaching- Learning Process

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

The Institute continuously develops the following student centric methods to enhance the learning abilities and complement the classroom teaching:

1.Experiential Learning

Experiential learning is an engaged learning where students "learn by doing." Well-designed, supervised, and evaluated experiential learning programs can stimulate academic research by promoting career development, leadership, and other professional and intellectual skills of the students. Students participate physically, intellectually, and creatively.

Experiential learning activities can include, (i) Project work: It is an essential component, and all students participate and learn. (ii) Field / Industrial Visits: Students actively participate and get exposed to the culture of industrial practices. (iii) Participation in competition at various levels: Students are encouraged to take part in national and international competitions to exhibit their skills and learn real- world events, (iv) Special Lectures: Special/Invited lectures by renowned professionals from industry and academia are organised to enable students learn beyond curriculum, (v) Laboratory sessions: The program curriculum includes two to three laboratory courses, where students perform experiments and learn by practice.

File Description	Documents
Upload any additional information	<u>View File</u>
Link for additional Information	http://mahendra.info/AQAR-2022-23/Criterio n%202/2.3.1/2.3.1index.pdf

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	http://www.mahendra.info/AQAR-2022-23/Crit erion%202/2.3.2/2.3.2index.pdf
Upload any additional information	<u>View File</u>

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

2.3.3.1 - Number of mentors

356

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

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, Prerequisites, Outcomes, Textbooks, references, etc. The faculty member also prepare lecture plan/teaching plan/session plan and implement accordingly.

The Institution practices participation from stakeholders. Class committee is constituted for each class at the beginning of every semester 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.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<u>View File</u>

2.4 - Teacher Profile and Quality

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

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<u>View File</u>
List of the faculty members authenticated by the Head of HEI	<u>View File</u>
Any additional information	<u>View File</u>

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

77

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	<u>View File</u>
Any additional information	<u>View File</u>

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

6.1

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<u>View File</u>
Any additional information	<u>View File</u>

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

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<u>View File</u>
Any additional information	<u>View File</u>

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

59

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<u>View File</u>
Upload any additional information	<u>View File</u>

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.Preparing examination schedules for theory examinations, assigning invigilators, .

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File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%202/2.5.3/2.5.3index.pdf

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 yearDisplayed in all Classrooms, Laboratories and Notice boardsAlso, the Vision, Mission, PSOs and PEOs are made available onInstitute 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)	<u>View File</u>
Upload any additional information	<u>View File</u>
Link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%202/2.6.1/2.6.lindex.pdf

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

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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	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%202/2.6.2/2.6.2index.pdf

2.6.3 - Pass Percentage of students

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

1063

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<u>View File</u>
Upload any additional information	<u>View File</u>
Paste link for the annual report	http://www.mahendra.info/AQAR-2022-23/Crit erion%202/2.6.3/2.6.3index.pdf

2.7 - Student Satisfaction Survey

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

http://www.mahendra.info/AQAR-2022-23/Criterion%202/2.7.1/2.7.1ind

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

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, MSME Government of India .

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 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.

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

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

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)

3.62

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<u>View File</u>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<u>View File</u>
List of teachers receiving grant and details of grant received	<u>View File</u>
Any additional information	<u>View File</u>

${\bf 3.1.3}$ - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

49

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

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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)

64.505

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<u>View File</u>
List of projects and grant details	<u>View File</u>
Any additional information	<u>View File</u>

3.2.2 - Number of teachers having research projects during the year

19

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://mahendra.info/AQAR-2022-23/Criterio n%203/3.2.2/3.2.2index.pdf
List of research projects during the year	<u>View File</u>

3.2.3 - Number of teachers recognised as research guides

20

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<u>View File</u>
Institutional data in Prescribed format	<u>View File</u>

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

File Description	Documents
Supporting document from Funding Agencies	<u>View File</u>
Paste link to funding agencies' website	http://www.mahendra.info/AQAR-2022-23/Crit erion%203/3.2.4/3.2.4index.pdf
Any additional information	<u>View File</u>

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.

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 Engineering of the college are recognized research centres of Anna University. Through these centres of research 7 scholars have successfully completed their Ph.D. degrees and currently 99 scholars are pursuing their research leading to Ph.D. degree.

Our College has around 8 Centres of Excellence and an EDC, and has created a good ecosystem for creativity, innovation, new product development, and to promote entrepreneurship activities. 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.

MSME- Incubator Center at Mahendra approved Host-Institution for "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators". Host-Institutions (HI) can explore the new innovative ideas from the Incubatee of various sectors which may be entrepreneurs or students from the any streams.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/research.php

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

60

File Description	Documents
Report of the events	<u>View File</u>
List of workshops/seminars conducted during the year	<u>View File</u>
Any additional information	<u>View File</u>

3.4 - Research Publications and Awards

ıe

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	<u>View File</u>
Any additional information	<u>View File</u>

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

File Description	Documents
URL to the research page on HEI website	http://www.mahendra.info/research.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<u>View File</u>
Any additional information	<u>View File</u>

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

0.15

File Description	Documents
List of research papers by title, author, department, and year of publication	<u>View File</u>
Any additional information	<u>View File</u>

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

61

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%203/3.4.4/3.4.4index.pdf

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

${\bf 3.4.5.1}$ - Total number of Citations in Scopus during the year

693

File Description	Documents
Any additional information	<u>View File</u>
Bibliometrics of the publications during the year	<u>View File</u>

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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

21

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<u>View File</u>
Any additional information	<u>View File</u>

3.5 - Consultancy

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

24.05

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<u>View File</u>
List of consultants and revenue generated by them	<u>View File</u>
Any additional information	<u>View File</u>

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

3.62 Lakhs

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<u>View File</u>
List of training programmes, teachers and staff trained for undertaking consultancy	<u>View File</u>
List of facilities and staff available for undertaking consultancy	<u>View File</u>
Any additional information	<u>View File</u>

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 strongly believes that "Serving the people is Serving the Society". Thus, the Institution has adopted 2 Villages in the neighborhood community. 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 clubs/committees. 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. It plays an important role in providing opportunities to the Faculty members and students to serve the society and learn the leadership and organizing skills.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/nss.php

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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

5

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

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)

41

File Description	Documents
Reports of the events organized	<u>View File</u>
Any additional information	<u>View File</u>

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

1837

File Description	Documents
Reports of the events	<u>View File</u>
Any additional information	<u>View File</u>

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

File Description	Documents
Copies of documents highlighting collaboration	<u>View File</u>
Any additional information	<u>View File</u>

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)

15

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<u>View File</u>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<u>View File</u>
Any additional information	<u>View File</u>

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.

Classrooms and Seminar Halls

TheInstitution has well-equipped with modern facilities and learning resources to achieve academic excellence, which pertains to its vision and mission. The Institution has totally 109 well-furnished, well- ventilated, and spacious classrooms with Wi-Fi connectivity. It includes 78 ICT Classrooms with 20 Smart Boards and 58 LCD projectors for conducting theory classes. The total built-up area of classrooms is 87113 sq. ft. The College has 7 spacious, Air-Conditioned Seminar Halls. These Halls are used for conducting Seminars, Workshops, Training and Meeting for the students and the faculty members of the College.

Laboratories:

All laboratories are well equipped with latest equipment to facilitate the experiential learning and research in the campus. These laboratories are established as per AICTE and Anna University norms. There are totally 63 excellent domain-specific laboratories with the built-up area of 73925 sq.ft. These Labs are utilized for conducting practical classes as per the requirements of the curriculum.

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Centralized Library and Information Centre:

The College has a Centralized Library & Information Centre with the built-up area of 17029 Sq.ft. It has well-stacked resources for the students and faculty members with seating capacity of 250 persons. There is a separate Digital Library with 25 desktop computers that enable the stakeholders' easy access to IEEE, DELNET, NDLI, NPTEL and other open access databases with high-speed internet access at the speed of 155 Mbps.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	<pre>chrome-extension://efaidnbmnnnibpcajpcglcl efindmkaj/http://www.mahendra.info/AQAR-20 22-23/Criterion%204/4.1.1/4.1.1index.pdf</pre>

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. The College gives utmost importance to create a balanced atmosphere of academic, cultural and sports activities for the overall personality development of its students. These activities help students to develop in all domains of life such as cognitive, emotional, social, moral, cultural and aesthetic. The institution provides the following facilities to enhance students community by all means. Our College encourages students to participate in cultural activities. Music Club, Dance Club, Recreation Club and Spic Macay Club energize the students to bring out their talents and perform in various cultural activities. The Faculty Incharge of the respective Clubs provides systematic guidance and direction to the students in order to develop their all-around talents and make them good citizens.

The institution has a separate, spacious, well-ventilated Yoga Centre to practice Yoga and Meditation by both the Students and the Faculty members. It empowers the regular doers Physically, Emotionally, Mentally and Spiritually. Awareness programmes are also conducted periodically by inviting Yoga Mentors to face health issues, cope with stress, attain emotional balance, develop good interpersonal skills, and excel at academics

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File Description	Documents
Geotagged pictures	<u>View File</u>
Upload any additional information	<u>View File</u>
Paste link for additional information	http://mahendra.info/AQAR-2022-23/Criterio n%204/4.1.2/4.1.2index.pdf

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

115

File Description	Documents
Upload any additional information	<u>View File</u>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<u>View File</u>

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

493.46

File Description	Documents
Upload audited utilization statements	<u>View File</u>
Details of Expenditure, excluding salary, during the years	<u>View File</u>
Any additional information	<u>View File</u>

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.

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The Library has a huge collection of over 112668 volumes of Books(Text, Reference and Rare Books), 288 National & International Journals, E-Journals - 2000+, E-Books-3000+, 9 Newspapers, 4963 Project Documents, 1114 Back Volumes and 6036 CDs/DVDs in the field of Management, Science, Engineering and Technology.

- 1. 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.
- 2. 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.
- 3. Auto due reminder to users through E-mail (Issue, Return and Renewal of books and over dues)

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%204/4.2.1/4.2.lindex.pdf

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	<u>View File</u>
Upload any additional information	<u>View File</u>

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

14.87

File Description	Documents
Audited statements of accounts	<u>View File</u>
Any additional information	<u>View File</u>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<u>View File</u>

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

1015

File Description	Documents
Upload details of library usage by teachers and students	<u>View File</u>
Any additional information	<u>View File</u>

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, hostel and guest houses wherever the network facility was provided

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%204/4.3.1/4.3.1index.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4658	1282

File Description	Documents
Upload any additional information	<u>View File</u>

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

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<u>View File</u>
Upload any additional information	<u>View File</u>

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

A. All four of the above

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://mahendra.info/AQAR-2022-23/Criterio n%204/4.3.4/4.3.4index.pdf
List of facilities for e-content development (Data Template)	<u>View File</u>

4.4 - Maintenance of Campus Infrastructure

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

602.42

File Description	Documents
Audited statements of accounts	<u>View File</u>
Upload any additional information	<u>View File</u>

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.

Mahendra Engineering College has a well-established and systematic procedure for maintaining its physical, academic and other support facilities. The College has Maintenance Committee that administers the maintenance of buildings, classrooms and laboratories. The Maintenance committee is headed by a Supervisor. Classrooms, Faculty rooms, Seminar halls and Laboratories, etc., are cleaned and maintained regularly by supporting staff. The periodical maintenance of Generator, Air Conditioners, CCTV cameras and Water Purifiers is done. The College has trained inhouse electricians and plumbers. Lab Assistants under the supervision of the System Administrator maintain the efficiency of the College computers and peripherals. The Computer data centreand its support staff maintain the ICT facilities including computers and servers. The annual maintenance includes the installation of required software, antivirus and upgradation. To minimize e-waste, electronic gadgets like projectors, computers, printers, photocopiers are serviced and reused. Campus Wi-Fi is maintained by the Data Centre. campus maintenance is monitored through surveillance Cameras. Proper inspection is done and verification of stock takes place at the end of every year. Library maintenance is made periodically to keep Library clean and arrange the returned books in their respective sections. Housekeeping team meticulously maintains hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Wash rooms are well maintained. Dustbins are placed in every floor. The Green shrub of the campus is well maintained by gardeners.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%204/4.4.2/4.4.2index.pdf

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

3236

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<u>View File</u>
Upload any additional information	<u>View File</u>

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

1179

File Description	Documents
Upload any additional information	<u>View File</u>
Institutional data in prescribed format	<u>View File</u>

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and

A. All of the above

Communication Skills Life Skills (Yoga,
Physical fitness, Health and Hygiene)
Awareness of Trends in Technology

File Description	Documents
Link to Institutional website	http://www.mahendra.info/AQAR-2022-23/Crit erion%205/5.1.3/5.1.3index.pdf
Details of capability development and schemes	<u>View File</u>
Any additional information	<u>View File</u>

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

2494

File Description	Documents
Any additional information	<u>View File</u>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<u>View File</u>

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

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

5.2 - Student Progression

${\bf 5.2.1}$ - Number of outgoing students who got placement during the year

764

File Description	Documents
Self-attested list of students placed	<u>View File</u>
Upload any additional information	<u>View File</u>

5.2.2 - Number of outgoing students progressing to higher education

19

File Description	Documents
Upload supporting data for students/alumni	<u>View File</u>
Details of students who went for higher education	<u>View File</u>
Any additional information	<u>View File</u>

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

12

File Description	Documents
Upload supporting data for students/alumni	<u>View File</u>
Any additional information	<u>View File</u>

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

33

File Description	Documents
e-copies of award letters and certificates	<u>View File</u>
Any additional information	<u>View File</u>

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 participatein Department Students' Association and Professional Societies. Students are also representatives invarious administrative committees such as Anti-ragging Committee, Students Grievance RedressalCommittee, Internal Complaints Committee (Prevention of Sexual Harassment). Students also participatein 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 harvestingand plastic-free environment, etc. In addition students actively participate and organize many clubactivities, viz., Green Club, Communication and Literary Club, Design Club and Societal activities to explore and emphasize their field of interest. In Macro clubs student secretaries organize activities ondifferent themes. The outstanding performers act as mentors to other 15 students who will be the menteesto receive guidance. The mentormentee system of 1:15 focuses on counselling students (slow learners) and promotes the collaborative learning in academic activities and career guidance

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File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%205/5.3.2/5.3.2index.pdf

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

12

File Description	Documents
Report of the event	<u>View File</u>
List of sports and cultural events / competitions organised per year	<u>View File</u>
Upload any additional information	<u>View File</u>

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 hasan 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 Scienceand Engineering, and Alumni members. The Alumni Association meets every year and conduct theGeneral 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 thenational level the alumni meets are conducted at Bangalore, Coimbatore, Chennai and various places. Thestudents working in those regions are gathered and alumni day has been celebrated to share their experience and industrial exposure to the students. 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 thenational level the alumni meets are conducted at Bangalore, Coimbatore, Chennai and various places.

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File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%205/5.4.1/5.4.1index.pdf

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	<u>View File</u>

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

Vision

To be an internationally recognized Institute for engineering education and research with ethical values.

Mission

- To ensure the effective use of resources to mould the students as professionals and entrepreneurs
- To enhance the industry institute interaction for innovative technology practice
- To encourage the faculty members and students for advanced research
- To inculcate ethical values among the faculty members and students

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

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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.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.1.1/6.1.1index.pdf

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. Every Department prepares the subject allocation, Time-Table, purchase and maintenance of equipment and consumables, plans Innovative teaching techniques and best practices, organizes FDPs, IOT courses, conferences, symposia, guest lectures and workshops, and sign MoUs with industries for industrial visits, in-plant trainings, internships and placement.

File Description	Documents
Upload strategic plan and deployment documents on the website	<u>View File</u>
Upload any additional information	View File
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.1.2/6.1.2index.pdf

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. There shall also be a merit-based, lateral admission of students having Diploma qualification to the second year of all programmes at the College in accordance with the Government rules applicable for such courses. The College website, prospectus and the curriculum handbook provide relevant information about the institution and the programmes being offered.

(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 Curriculum

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facilitates conducting Employability enhancement courses, communication, soft-skills training and domain-specific training using Centres of Excellence so as to help students acquire necessary skills leading to better employment opportunities. The Choice Based Credit System also facilitates selection of flexible and wide range of professional and open electives as per

File Description	Documents
Strategic Plan and deployment documents on the website	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.2.1/index.pdf
Upload any additional information	<u>View File</u>

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 goodrepresentation 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 AICTE 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	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.2.2/6.2.2index_1.pdf
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/statutory_committ ee.php

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

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	<u>View File</u>
Screen shots of user interfaces	<u>View File</u>
Details of implementation of e- governance in areas of operation	<u>View File</u>
Any additional information	<u>View File</u>

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 nonteaching 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 leaveSponsoring 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 Teahing Sstaff

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.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.3.1/index.pdf

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

236

File Description	Documents
Upload any additional information	<u>View File</u>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<u>View File</u>

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

14

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<u>View File</u>
Upload any additional information	<u>View File</u>

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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.)

245

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

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	<u>View File</u>
Paste link for additional information	http://mahendra.info/AQAR-2022-23/Criterio n%206/6.4.1/6.4.1index.pdf

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)

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nil

File Description	Documents
Annual statements of accounts	<u>View File</u>
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<u>View File</u>
Any additional information	<u>View File</u>

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	<u>View File</u>
Paste link for additional Information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.4.3/6.4.3index.pdf

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 1. Curriculum design and implementation 2. Teaching Learning process - Outcome Based Education (OBE) 3. Research Publications and Patents 4. Training and Placement The IQAC is continuously ensuring various quality assurance steps at all levels of the institution functioning. It promotes the implementation of the Best Practices which suites to

the Institution as well as Department through the active participation of all Stakeholders in Quality Enhancement Process. Our institution have been organizing seminars, workshops, Guest lectures, symposium, and conferences at State, National, and International levels on various topics. Mahendra Alumni Lecture Series (MAILS) programmes were our past alumni interacts with our future alumni's which helps to gain more knowledge about the present scenario and the area to be focused.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.5.1/6.5.1index.pdf

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.

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File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.5.2/6.5.2index.pdf

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	http://www.mahendra.info/AQAR-2022-23/Crit erion%206/6.5.3/6.5.3index.pdf
Upload e-copies of accreditations and certification	<u>View File</u>
Upload details of quality assurance initiatives of the institution	<u>View File</u>
Upload any additional information	<u>View File</u>

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

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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. WEC seeks to mould the young women on campus to achieve milestones of success in their lives. Aiming at the intellectual and social upliftment of the students, the cell facilitates women's empowerment through seminars, guest lectures, awareness programs, and other welfare activities.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional Information	http://mahendra.info/AQAR-2022-23/Criterio n%207/7.1.1/7.1.1index.pdf

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	<u>View File</u>
Any other relevant information	<u>View File</u>

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 localvendors 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

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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	<u>View File</u>
Geotagged photographs of the facilities	<u>View File</u>
Any other relevant information	<u>View File</u>

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	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.5 - Green campus initiatives include

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

- A. Any 4 or All of the above
- 1. Restricted entry of automobiles
- 2. Use of bicycles/ Battery-powered vehicles
- 3. Pedestrian-friendly pathways
- 4. Ban on use of plastic
- 5. Landscaping

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File Description	Documents
Geotagged photos / videos of the facilities	<u>View File</u>
Various policy documents / decisions circulated for implementation	<u>View File</u>
Any other relevant documents	<u>View File</u>

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

- 7.1.6.1 The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:
- ${\tt A.\ Any\ 4}$ or all of the above

- 1. Green audit
- 2. Energy audit
- 3. Environment audit
- **4.** Clean and green campus recognitions/awards
- **5. Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<u>View File</u>
Certification by the auditing agency	<u>View File</u>
Certificates of the awards received	<u>View File</u>
Any other relevant information	<u>View File</u>

- 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,
- A. Any 4 or all of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	<u>View File</u>
Policy documents and brochures on the support to be provided	<u>View File</u>
Details of the software procured for providing assistance	<u>View File</u>
Any other relevant information	<u>View File</u>

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 to promote a professional climate and congenial environment. In order to promote good interaction and a mix of students from different backgrounds, several clubs, NSS, NCC, RRC, and sports activities are organized, and students are encouraged to participate actively. The NSS unit of our college regularly organizes a plantation programme to encourage students to participate and make the campus more eco-friendly. Trees increase the oxygen level in the environment and make the campus green and airy. The NSS unit also organized a plastic-free awareness rally to make the environment clean and sustainable. Aside from students, many members of the general public took part in the plastic-free awareness rally around the village for personal reasons. Different sports and cultural activities organized inside the college promote harmony with each other.

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

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

The college organizes an induction programme for the first-year students wherein they are sensitized about the importance of engineering education, goals, careers, life skills, universal human values, etc. Every year, an awareness programme for newly recruited faculty members is organized to educate them on the importance of engineering education, their duties and responsibilities, obligations, and so on. To instill ethical, moral, social, and universal values, important courses such as Professional Ethics and Human Values, Universal Human Values, and the Constitution of India have been introduced as mandatory courses for all programmes of engineering to enable students to acquire the essence of human values such as gender equity, fraternity, harmony, right understanding, complementarily, constitutional obligations, fundamental rights, duties, and responsibilities of citizens, ethical human conduct, trustworthiness, and mutual cooperation, etc. More than 10 faculty members, including the principal, participated in the 5-day workshop on universal human values organized by AICTE during 2020-21 and benefited 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 the Constitution of India, and some of them teach the mandatory audit course, Constitution of India, to all UG students. Also, the college has prepared a HR policy, which describes the duties and responsibilities of faculty members and staff at various levels.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<u>View File</u>
Any other relevant information	<u>View File</u>

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

A. All of the above

students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	<u>View File</u>
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	<u>View File</u>
Any other relevant information	<u>View File</u>

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, 2023

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

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

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yoga activities and women empowerment cell organizes a small workshop on Yoga and its significance to students and Faculty Members.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<u>View File</u>
Geotagged photographs of some of the events	<u>View File</u>
Any other relevant information	<u>View File</u>

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

Objective:

Converting Biodegradable Waste into Organic Manure Composting the waste creates a product that can be used to improve soil nutrients and help promote crop yield organically.

Practice:

Every-day the sanitary workers, sweepers, student-volunteers, NCC representatives and staff volunteers are engaged to collect the biomass materials in their workspace area and collectively dump into the pit. After dumping the biomass into the pit, it was watered to make convenient for digestion process. Once pit is completely filled, it allowed for complete degradation to compost-stage. The subsequent pits are operated as per sequential order. These activities help to keep our-campus clean and green.

Evidence:

The manure is applied to cropping fields, shade net cultivation and ornamental flower pots to avoid the chemical fertilizer utilization. The crops grown under this manure are completely organic and nutrient enriched vegetables, which are good for health. These organic-vegetables are utilized for cooking in both the Hostels(Boys and Girls) and conduct food carnival in our College.

Outcome:

Organic manure has multiple benefits due to the balanced supply of nutrients, including micronutrients, increased soil nutrient availability due to increased soil microbial activity, the decomposition of harmful elements, soil structure improvements and root development, and increased soil water availability.

File Description	Documents
Best practices in the Institutional website	http://mahendra.info/AQAR-2022-23/Criterio n%207/7.2/7.2index.pdf
Any other relevant information	http://mahendra.info/AQAR-2022-23/Criterio n%207/7.2/7.2index.pdf

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)

Mahendra Educational Trust was established in 1978 by Shri.M.G.Bharathkumar, a renowned educationist and a philanthropist with a noble intent of educating the underprivileged rural community in Namakkal district. In fact during early 1970s there were very few educational institutions in and around Namakkal district and many rural students did not have access to basic education. The Chairman and Secretary who were originally teachers understood the great need to provide education for rural students and thus started Mahendra Matriculation School under the aegis of Mahendra Educational Trust. Subsequently the Trust established more educational institutions to cater to the needs of Namakkal and nearby districts. So with the benevolent measures from the Trust and commitment of the Trustees to help uplift the rural masses, many students from remote villages got access to education. The Chairman and the Secretary dedicated to provide a disciplined, value-based and quality education with parental care, moulding the students and teachers to be sociallyresponsible citizens

File Description	Documents
Appropriate link in the institutional website	http://mahendra.info/AQAR-2022-23/Criterio n%207/7.3/7.3index.pdf
Any other relevant information	<u>View File</u>

7.3.2 - Plan of action for the next academic year

- To increase intake in AI&DS from 60 to 120 seats.
- Each department has to plan academic activities as per Academic calendar and improve Teaching-Learning process.
- To conduct Internal Academic audit during each semester and External Peer Committee visit in even semester.
- To implement innovative teaching methods such as Flipped Teaching, Blended learning using smart boards with ICT facilities.
- To provide seed money to students and faculty to carry out innovative projects.
- To encourage faculty members to file patents and enhance paper publications in reputed journals and provide incentives.
- To improve the training activities for students including training for foreign languages such as Japanese language training for High end placement.
- To apply for renewal of autonomous status.