

**MAHENDRA ENGINEERING COLLEGE,**

*(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY CHENNAI)*

**Internal Quality Assurance Cell (IQAC )**



## **Report on Academic Audit & Action Taken (2022-2023)**





## **MAHENDRA ENGINEERING COLLEGE**

(Autonomous)

Accredited by NAAC 'A' Grade & NBA Tier-I (WA) UG: CSE,ECE,EEE  
Mahendhirapuri, Mallasamudram, Namakkal Dt. - 637 503.



### **ACADEMIC AUDIT SCHEDULE 2022-2023**

**(ODD & EVEN SEMESTER)**

## **Introduction**

The Academic Audit of the Departments was conducted from 25.08.2023 to 29.08.2023. The purpose of the Audit is to provide the opportunity for a regular strategic overview of the Department's Teaching-Learning and all other activities. The Self Evaluation Document of the Department was presented to the Peer Committee Experts. The Expert Members received different aspects of the Document, and validated them with the supporting evidence. This report consolidates the findings of the Experts and put forth the suggestions and area of improvements possible in future.

### **Academic Audit Expert Committee members:**

**1. Dr.G.Appa Rao**

Professor, Department of Civil Engineering  
Structural Engineering Division  
IIT Madras

**2. Dr.V.Anandakrishnan,**

Professor,  
Department of Production Engineering  
NIT-Trichy

**3. Dr.P.Parthiban**

Professor,  
Department of Production Engineering  
NIT-Trichy

**4. Dr.A.M.Kalpanna**

Professor  
Department of Computer Science Engineerig  
GCE, Salem

**5. Dr.P.Vikkraman**

Associate Professor & Head  
Master of Business Administration  
Anna University regional Campus  
Coimbatore

**6. Dr.K.Rajupillai**

Asst.Prof (Sr.Grade)  
Deparetment of Maths  
GCT , Coimbatore

**7. Dr.V.R.Vijayakumar**

Associate Professor - Department of ECE  
Anna University Regional Campus, Coimbatore

### Schedule of External - Academic Audit - Academic year 2022-23

S. No.	Date of Audit	Name of the Auditor	Departments to be Audited
1	26.08.2023	<b>Dr.G.Appa Rao</b> Professor - Structural Engineering Division IIT, Madras	Civil & Agri
2	29.08.2023	<b>Dr.A.M.Kalpana</b> Professor - Department of Computer Science GCE, Salem	CSE, IT & Cyber
3	29.08.2023	<b>Dr.P.Parthiban</b> Professor - Department of Production NIT, Trichy	Mech, Mechatronics & Chemical
4	26.08.2023	<b>Dr.V.Anandakrishnan</b> Professor - Department of Production NIT, Trichy	Aero, Aerospace & Pharma
5	29.08.2023	<b>Dr.V.R.Vijayakumar</b> Associate Professor - Department of ECE Anna University Regional Campus, Coimbatore	EEE, ECE & AIDS Examination Cell
6	29.08.2023	<b>Dr.P.Vikraman</b> Professor - Department of Management Studies Anna University Regional Campus, Coimbatore	MBA & MCA, Food
7	29.08.2023	<b>Dr. K.Rajupillai</b> Asst. Professor (S.Gr.) - Department of Mathematics GCT, Coimbatore	S & H Examination Cell

**List of Files Audited:** Evaluation of each component may be done on 10 point scale (0 to 10) and mention the points awarded in appropriate column

- F1.1 Department Vision, Mission, PEOs, POs, PSOs  
**Board of Studies Minutes, Regulations, Curriculum and Syllabus for all Regulations**
1. Percentage of Programmes where syllabus revision was carried out during the AY 2022-23
  2. Courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the AY 2022-23
- F 1.2
3. Percentage of new courses introduced of the total number of courses across all programs offered during the AY 2022-23
  4. Number of verticals/Domain introduced in R2022
  5. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum
- F2.1
1. Students Admitted in AY 2022-23
  2. Seats filled against reserved categories (SC, ST,OBC, Divyangjan, etc. as per applicable reservation policy ) during the AY 2022-23
  3. Student - Full time teacher ratio
  4. Record of Teaching and Non-Teaching staff profile
- F2.3
- CO and PO for all Programmes.  
 Attainment of CO and PO are evaluated
- F2.4
- Internal Test Analysis for all classes
- F2.5
- End Semester Exam Result Analysis for all classes.  
 Out gone Pass percentage of students (2022-23 passed out )
- F2.6
- Student centric methods, such as Experiential Learning, Participative Learning, Problem Solving Methodologies, Flipped Teaching and Blended Learning are used for enhancing learning experiences (2022-23)
- F2.7
- Teachers use ICT enabled tools including online resources for effective teaching and learning process
- F2.8
- Course file (Theory and laboratory courses) *(Please verify Internal Test Note (Theory) ,Class note , Assignment) Verify at least one document per semester per year*
- F2.9
- Students' attendance  
*(Please verify the Master attendance)*
- F3.1
- Preparation and adherence of Department Academic Calendar and Teaching plans by the institution
- F3.2
- Institution provides seed money for research projects and consultancy to the teachers  
*(Please verify the proof )*
- 1.No. of Research Supervisors and Scholar details and Ph.D awarded  
*(Please verify the proof)*

2. Teachers awarded national / international fellowship for advanced studies/research during AY 2022-23
- F3.3 Major / Minor / Other research projects (Please verify *Ongoing, Completed and Submitted details*)
- F3.4 1. Research paper publications International / National Journal and Conference ) (*Please verify No. of Publication and Quality of publication*)  
2. Books and chapters published by faculty  
3. Patent filed/Published/Granted
- F3.5 1. Department programmes organized AY 2022-23  
2. **Highlight** Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development during AY 2022-23
- F 3.6 1. Record of Consultancy  
2. Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the AY 2022-23
- F3.7 Record of MOU and CoE Files (Please verify the activities)
- F3.8 Students Innovative Projects
- F3.9 Extension Activities  
1. NSS students list  
2. NCC students list  
3. Club activities  
4. Subject related extension activity  
5. Societal activity
- F3.10 Faculty Awards (Awards received from Professional Bodies and Engineering Society )
- F 4.1 Laboratory Maintenance Record, Calibration file
- F 4.2 ICT – enabled facilities such as smart class, LMS, etc.
- F 4.3 E-Content and You Tube developed by the faculties
- F 5.1 1. Students' Bio-Data  
2. Students benefited by scholarships and freeships provided by the Government and Management during the AY 2022-23  
Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.
- F 5.2 Department Class committee meeting  
Department Bos  
Any other committee

Student Participation (Co-Curricular & Extra Curricular)

*(Please verify Number of participation)*

F 5.3 Awards and prizes earned by the students

2. Department Achievers List

F5.4 ***Students list attending Capacity development and skills enhancement activities***

Placement training , Yoga and Recent Technologies

Placement, Higher Studies and Entrepreneurship

F 5.5 *(Please verify No of placement, Higher studies GATE,GRE, TOEFL, etc., score, and Entrepreneur list)*

Alumni Interaction

F 5.6 *(Please verify Alumni Lecture and Alumni mentoring support)*

F 6.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year *(please verify the documents)*

F 6.2 Record of Staff Meeting

F 6.3 Number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff during AY 2022-23

Average percentage of teachers undergoing online/ face-to-face

F 6.4 **Faculty Development Programmes** during the AY2022-23 (Professional Development Programmes, Orientation / Induction

Programmes, Refresher Course, Short Term Course etc.,)

F 6.5 Department Budget  
*(Please verify 2023-24 Budget )*

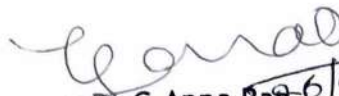
F 6.6 Feedback on Teaching Learning process. Remedial coaching class for AY 2022-23

F 7.1 Department Future plan  
*(Strategic plan for 2022-23)*

## **Overall assessment and Suggestions for Improvement :**

- All Audit Files were maintained properly and All IQAC formats are good and regularly updated.
- Research and Publications activities are appreciable
- Students' participation in Internship and Field Visits are appreciable
- Students' are given good training and placements and it may further be improved.
- New Centre of Excellences Aerial Drobnics, TANCAM, DESAOT are established in the Academic year 2022-23.
- Basic amenities and infrastructures in the college is very good
- More Academic and Industry Experts visited college to deliver Guest Lecture , Special Lecture etc.,
- Alumni meeting is conducted regularly and many Alumni are visiting college for Mahendra Alumni Interactive Lecture Series (MAILS ).
- All the departments conducted technical programmes , Professional Society activities .
- Curriculum and Syllabus revision done through all stakeholders' feedback and good number of new courses are introduced.
- Providing seed money for innovative research has resulted in increased publications.
- Faculty members with Ph.D can be encouraged to register as Supervisors.
- Students may be motivated to prepare for GATE and Competitive Exams .
- More funded project proposals may be submitted in future.
- Students skill development programme by Industry may improved
- Result and Placement records are excellent.
- Alumni Interaction and membership may be improved
- Students must be trained to solve open problem available in google database
- Improve IPR Activities
- Encourage the faculty members to have pursue Ph.D.
- More startup idea must be encourage among the students
- Students can be motivated to participate in Project and coding competitions.
- More workshops can be organized for students to motivate them to become entrepreneurs.

Expert Peer Team member's signature

  
Dr. G. Appa Rao 6/08/2023  
Professor


Department of Civil Engineering  
Structural Engineering Division  
IIT Madras

  
Dr. A.M. Kalpanan 29.8.2023

Professor  
Department of Computer Science  
Government College of Engineering  
Salem

  
Dr. P. Parthiban 29/8/2023

Professor  
Department of Production Engineering  
NIT, Trichy

  
Dr. V. Anandakrishnan 26/8/23

Professor  
Department of Production Engineering  
NIT, Trichy


  
Dr. V.R. Vijayakumar 29/8/23

Professor  
Department of ECE  
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Dr. P. Vikraman 29/8/23

Professor  
Department of Management Studies  
Anna University Regional Campus,  
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DR. P. VIKRAMAN  
Regular Professor HAO  
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Dr. K. Rajupillai 29/8/23

Asst. Professor (S.Gr.)  
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