

MAHENDRA ENGINEERING COLLEGE,

(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY CHENNAI)

Internal Quality Assurance Cell (IQAC)



Report on Academic Audit & Action Taken (2023-2024)





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 2023-2024

(ODD & EVEN SEMESTER)

Introduction

The Academic Audit of the Departments was conducted from 12.04.2024 and 13.04.2024. 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 Engineering
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)
Department 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 2023-2024

S. No.	Date of Audit	Name of the Auditor	Departments to be Audited
1	12.04.2024	Dr.G.Appa Rao Professor - Structural Engineering Division IIT, Madras	Civil & Agri
2	12.04.2024	Dr.A.M.Kalpana Professor - Department of Computer Science GCE, Salem	CSE, IT & Cyber
3	13.04.2024	Dr.P.Parthiban Professor - Department of Production NIT, Trichy	Mech, Mechatronics & Chemical
4	13.04.2024	Dr.V.Anandakrishnan Professor - Department of Production NIT, Trichy	Aero, Aerospace & Pharma
5	12.04.2024	Dr.V.R.Vijayakumar Associate Professor - Department of ECE Anna University Regional Campus, Coimbatore	EEE, ECE & AIDS Examination Cell
6	13.04.2024	Dr.P.Vikraman Professor - Department of Management Studies Anna University Regional Campus, Coimbatore	MBA & MCA, Food
7	13.04.2024	Dr. K.Rajupillai Asst. Professor (S.Gr.) - Department of Mathematics GCT, Coimbatore	S & H

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 2023-24
 2. Courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the AY 2023-24
- F 1.2
3. Percentage of new courses introduced of the total number of courses across all programs offered during the AY 2023-24
 4. Number of verticals/Domain introduced in R2023
 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 2023-24
 2. Seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the AY 2023-24
 2. Student - Full time teacher ratio
 3. 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 (2023-24 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 (2023-24)
- 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)
- F3.2
- 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 2023-24
- 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 2023-24
2. **Highlight** Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development during AY 2023-24
- F 3.6 1. Record of Consultancy
2. Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the AY 2023-24
- 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 2023-24
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 2023-24

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

F 6.4 **Faculty Development Programmes** during the AY 2023-24 (Professional Development Programmes, Orientation / Induction

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

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

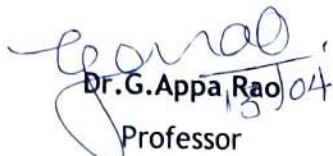
F 6.6 Feedback on Teaching Learning process. Remedial coaching class for AY 2023-24

F 7.1 Department Future plan
(Strategic plan for 2023-24)

Overall assessment and Suggestions for Improvement :

- All Audit Files were maintained properly and All IQAC formats are good and regularly updated.
- Revised action taken report and the outcomes achieved are found to be good.
- Overall observations are good.
- The files are maintained as per IQAC format.
- The files need to be consolidated and presented with summarized details.
- Quality and no. of publications need to be improved.
- Sponsored projects and consultancy work need to be increased.
- MoUs with new industry to be initiated.
- Administrative/Skill development programmes to be done for non teaching staff.
- Faculty members with Ph.D can be encouraged to register as Supervisors.
- Subjects in Emerging Technology are to be included.
- Specific domain mini projects to be improved
- Encourage the faculty members to pursue Ph.D.
- Patents need to be increased

Expert Peer Team member's signature


Dr. G. Appa Rao 04/24

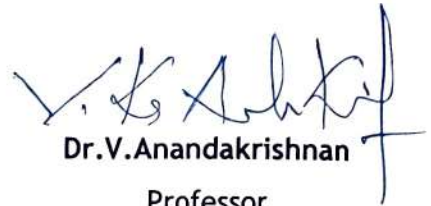
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