MAHENDRA ENGINEERING COLLEGE,

(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY CHENNAI)

Internal Quality Assurance Cell (IQAC)

Report on Academic Audit & Action Taken

(2021-2022)

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 2021-22
(ODD & EVEN SEMESTER)

Introduction

The Academic Audit of the Department was conducted from 28.07.2022 to 30.07.2022. The Purpose of the Audit is to provide the opportunity for a regular strategic overview of the entirety of a Department's Teaching and Learning activity. The Self Evaluation Document (SED) of the Department was presented to the Peer Committee Experts. The Expert Members investigated the different aspects of the Document, and authenticated them with the supporting evidences. This report consolidates the findings of the Experts and put forth the suggestions and area of improvements possible in the 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,**
   Associate Professor,
   Department of Production Engineering
   NIT-Trichy

3. **Dr.K.Srinivasan**
   Associate Professor,
   Department of Instrumentation and Control Engineering
   NIT-Trichy

4. **Dr.A.M.Kalpanna**
   Professor
   Department of Computer Science Engineerig
   GCE, Salem

5. **Dr.Saranya**
   Asst.Professor (Sr.Grade)
   Department of Physics
   GCE, Salem

Schedule of the Academic Audit on 28 th July 2022

1. Auditor 1 :   **Dr.A.M.Kalpanna**

   Professor

   Department of Computer Science Engineerig

   GCE, Salem

2. Auditor 2 :   **Dr.Saranya**

   Asst.Professor (Sr.Grade)

   Department of Physics

   GCE, Salem

S.No	Time	Auditor -I Departments	Auditor-II Departments
1	10.30 AM to 11.30AM	IT	English
2	11.30 AM to 01.00 PM	CSE	Maths
4	01.00 PM to 02.00 PM	Lunch	
5	02.00 PM to 03.00 PM	MBA	Physics
6	03.00 PM to 04.00 PM	Library	Chemistry
7	04.00 PM to 4.30 PM	Report writing and Closing Meeting	

Schedule of the Academic Audit on 29th July 2022

Auditor 1 :   **Dr.V.Anandakrishnan,**

Associate Professor,

Department of Production Engineering

NIT-Trichy

Auditor 2 :   **Dr.K.Srinivasan**

Associate Professor,

Department of Instrumentation and Control

Engineering

NIT-Trichy

S.No	Time	Auditor -I Departments	Auditor-II Departments
1	10.30 AM to 11.30AM	Mechatronics	EEE
2	11.30 AM to 01.00 PM	Mechanical	ECE
4	01.00 PM to 02.00 PM	Lunch	
5	02.00 PM to 03.00 PM	Mech & Auto	E & I
6	03.00 PM to 04.00 PM	Aeronautical	NSS & NCC
7	04.00 PM to 4.30 PM	Report writing and Closing Meeting	

Schedule of the Academic Audit on 30th July 2022

1.   Auditor 1 : **Dr.G.Appa Rao**

           Professor, Department of Civil Engineering

           Structural Engineering Division

           IIT Madras

S.No	Time	Auditor -I Departments
1	10.30 AM to 11.30AM	Civil
2	11.30 AM to 01.00 PM	Agri
4	01.00 PM to 02.00 PM	Lunch
5	02.00 PM to 03.00 PM	MCA
6	03.00 PM to 04.00 PM	General Amenities
7	04.00 PM to 4.30 PM	Report writing and Closing Meeting

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*

F. No	Description	Evaluation	Comments	Points
I- Curricular Aspects				
AE/F1.1	Department Vision, Mission, POs, PEO, PSOs			
AE /F 1.2	**Board of Studies Minutes, Regulations, Curriculum and Syllabus for all Regulations** 1. Percentage of Programmes where syllabus revision was carried out during the AY 2021-22			
	2. Courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the AY 2021-22			
	3. Percentage of new courses introduced of the total number of courses across all programs offered during the AY 2021-22			
	4. Elective course system has been implemented (Data for the latest completed academic year)			
	5. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum			

AE /F 1.3	Number of value-added courses for imparting transferable and life skills offered during the AY 2021-22 and students enrolled in the courses			
AE /F 1.4	Students undertaking field projects/ internships / student Projects during the AY 2021-22			
AE /F 1.5	Structured feedback for design and **review of syllabus** (semester wise /year wise) is obtained from 1) Students, 2) Teachers, 3) Employers, 4) Alumni			
II- Teaching Learning and Evaluation				
AE/F2.1	1. Students Admitted in AY 2021-22 2. Seats filled against reserved categories (SC, ST,OBC, Divyangjan, etc. as per applicable reservation policy) during the AY 2021-22 3. Student - Full time teacher ratio 4. Record of Teaching and Non-Teaching staff profile			
AE/F2.2	Students mentor file for academic and other related issues			

AE/F2.3	PO and CO for all Programmes. Attainment of PO and CO are evaluated			
AE/F2.4	Internal Test Analysis for all classes			
AE/F2.5	End Semester Exam Result Analysis for all classes. Out gone Pass percentage of students (2021-22 passed out)			
AE/F2.6	Feedback on Teaching Learning process . Remedial coaching class for AY 2021-22			
AE/F2.7	Course file (Theory and laboratory courses) *(Please verify Internal Test Note (Theory) ,Class note , Assignment)*			
AE/F2.8	Students' attendance *(Please verify the Master attendance)*			
III-Research , Innovation and Extension				
AE/F3.1	1.Institution provides seed money for research projects and consultancy to the teachers *(Please verify the proof)*			
AE/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 2021-22			
AE/F3.3	Major / Minor / Other research projects (Please verify *Ongoing, Completed and Submitted details*)			
AE/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 *(Please verify the documents)*			
AE/F3.5	*1.* Department programmes organized AY 2021-22 2. *Highlight N*umber of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), entrepreneurship and skills development			
AE/F 3.6	1. Record of Consultancy 2. Total amount spent on developing facilities, training teachers and staff for undertaking consultancy during the AY 2021-22			

AE/F3.7	*Record of MOU Files (Please verify the activities)*			

AE/F3.8	Extension Activities
	  1. NSS students list
	  2. NCC students list
	  3. Club activities
	  4. Subject related extension activity
	  5. Societal activity			

IV-Infrastructure and Learning resource				
AE/F 4.1	Department Budget *(Please verify 2021-22 Budget)*			
AE/F 4.2	ICT – enabled facilities such as smart class, LMS, etc.			
AE/F 4.3	E-Content developed by the faculties			
V-Student Support and Progression				
AE/F 5.1	1. Students' Bio-Data 2. Students benefited by scholarships and freeships provided by the Government and Management during the AY 2021-22			
AE/F 5.2	Department Class committee meeting			
AE/F 5.3	Student Participation (Co-Curricular & Extra Curricular) *(Please verify Number of participation)*Awards and prizes earned by the students			

AE/F5.4	***Students list attending Capacity development and skills enhancement activities*** Placement training , Yoga and Recent Technologies			
AE/F 5.5	Placement, Higher Studies and Entrepreneurship *(Please verify No of placement, Higher studies GATE,GRE, TOEFL, etc., score, and Entrepreneur list)*			
AE/F 5.6	Alumni Interaction *(Please verify Alumni Lecture and Alumni mentoring support)*			
VI- Governance , Leadership and Management				
AE/F 6.1	Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year *(please verify eh documents)*			
AE/F 6.2	Record of Staff Meeting			
AE/F 6.3	Number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff during AY 2021-22			

AE/F 6.4	Average percentage of teachers undergoing online/ face-to-face **Faculty Development Programmes** during the AY2021-22 (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.,)				
VII- Institutional Values and Best practices					
AE/F 7.1	Department Future plan *(Strategic plan for 2022-23)*				

1. Overall assessment :

- All Audit Files were maintained properly.

- Research and Development activities are appreciable

- Student's participation in Value Added Courses , Internship and Field projects are appreciable

- Students are given good training and placements and it may further be improved.

- Centre of Excellence activities are improved and appreciable.

- IIC related activities are appreciable.

- Basic amenities and infrastructures in the college is very good

- More Academicians and Industry Experts visited college for knowledge transfer

- Alumni meeting is conducted regularly and many Alumnus are supported for knowledge transfer

- All the departments conducted technical programmes effectively.

- All IQAC formats are good and regularly updated.

- Curriculum and Syllabus revision done through all stake holders feedback

2. Suggestions for Improvement :

- Providing seed money for innovative research work may be increased.

- Faculties with Ph.D can be encouraged to register as supervisors.

- More startup idea must be encourage among the students

- Students can be motivated to participate in Project and coding competitions.

- Faculty members may be motivated to publish more research papers in Indexed Journals.

- More workshops can be organized for students to motivate them to become entrepreneurs.

- Students may be motivated to prepare for higher studies and Competitive Exams .

- Students are motivated to start star-up Company.

- Curriculum maybe expanded by including recent technology like IoT, Digital and sustainable Engineering.
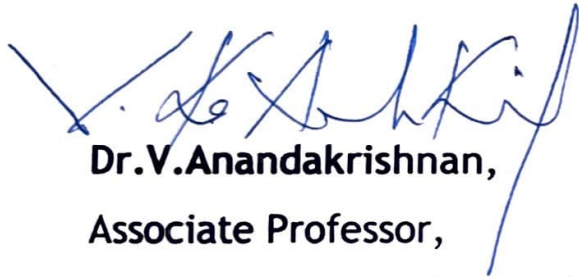
Note : Corrective Action Plan of individual department is attached .

Expert Peer Team members signature

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