

MAHENDRA ENGINEERING COLLEGE,

(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY CHENNAI)

Internal Quality Assurance Cell (IQAC)



**Report on Academic Audit & Action Taken
(2020-2021)**





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 2020-21 (ODD & EVEN SEMESTER)

Introduction

The Academic Audit of the Department was conducted from 28.12.2021 to 31.12.2021. 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.Anandkrishnan,**
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



MAHENDRA ENGINEERING COLLEGE

(Autonomous)

Accredited by NAAC 'K' Grade & NBA Tier-I (NA) UG- CSE, ECE, EEE
Mahendrapuri, Mallasamudram, Namakkal Dt. - 637 503.



INTERNAL QUALITY ASSURANCE CELL

08.12.2021

External Peer Team visit and Audit Schedule for the Academic year 2020-21.

S. No.	Name of the Auditor	Address	Departments to be Audited	Date of Audit
1	Dr.G.Appa Rao	Professor Structural Engineering Division Department of Civil Engineering, IIT, Madras	Civil, Agri, & MCA	28.12.2021 to 31.12.2021
2	Dr.V.Anandakrishnan	Associate Professor Department of Production Engineering, NIT, Trichy	Aero, MAE, Mech & MCTS	
3	Dr. K. Srinivasan	Associate Professor, Department of Instrumentation and Control Engineering, NIT, Trichy	PCE, EEE & EIE	
4	Dr.A.M.Kalpanan	Professor Department of Computer Science, GCE, Salem	CSE & IT	
5	Dr. Saranya	Asst. Professor (S.Gr.) Department of Physics, GCE, Salem	S & H & MBA	


Director IQAC




Chairman IQAC 08/12/2021

Schedule of the Academic Audit on 28th December 2021

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 30th December 2021

Auditor 1 : Dr.V.Anandkrishnan,
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 31st December 2021

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:

S.No	F. No	Description
I - Curricular Aspects		
1	AE/F1.1	Department Vision, Mission, PEO, PSOs
2	AE/F1.2	Department Objective, Goal, Annual Department Plan (2020-21) and Action taken, Calendar AY 2020-21
3	AE/F1.3	Department SWOT analysis
4	AE/F1.4	Field Project Internship and Inplant training and industrial visits
5	AE/F1.5	Board of Studies Minutes, Regulations, Curriculum and Syllabus for all Regulations (R2019)
6	AE/F1.6	Feedback on curriculum enrichment (<i>Feedback from all stakeholders</i>)
7	AE/F1.7	Curriculum enrichment in 2019 Regulations (Employability, EDC, Skill Development)
8	AE/F1.8	SWAYAM-NPTEL and Any online certification courses (<i>Please verify certificates for students and faculties</i>)
9	AE/F1.9	Value Added Courses and ICoT (<i>Please verify students certificate in value added course</i>)
10	AE/F2.1	Students strength and Faculty Students Ratio (<i>as per NBA format</i>)
11	AE/F2.2	Record of Teaching and Non-Teaching staff profile
12	AE/F2.3	ICT Innovative Teaching Learning Process (<i>Please specify the methods</i>)
13	AE/F2.4	Students mentoring file and action taken (<i>Please verify the document and comment</i>)

14	AE/F2.5	Students complaints grievances about examinations - QPM <i>(Please verify action taken)</i>
15	AE/2.6	CO-PO mapping and CO attainment <i>(Please verify the attainment for all years with proof)</i>
16	AE/F2.7	Student Satisfaction Survey (SSS) on overall institutional performance <i>(Please verify the feed back)</i>
17	AE/F2.8	Students achievement in examination <i>(Please verify students secured more than 8.5 CGPA)</i>
18	AE/F2.9	Internal Test Analysis <i>(Both Theory and Practical courses)</i>
19	AE/F2.10	End Semester Exam Result Analysis
20	AE/F2.11	Feedback on Teaching Learning process
21	AE/F2.12	Remedial coaching class for AY 2020-21
22	AE/F2.13	Course file (Theory and laboratory courses) <i>(Please verify Internal Test Note (Theory) ,Class note , Assignment)</i>
23	AE/F2.14	All Lab Maintenance, Stock Register, Stock Verification Record and Calibration details
24	AE/F2.15	Lab Manual, Records, Observation and Time Table <i>(Please verify 2 Nos. /subject /class for all the practical courses)</i>
25	AE/F2.16	Students' attendance <i>(Please verify the Master attendance)</i>
26	2.17	Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government)

III-Research , Innovation and Extension		
27	AE/F3.1	Institution provides seed money for research projects and consultancy to the teachers <i>(Please verify the proof)</i>
28	AE/F3.2	No. of Research Supervisors and Scholar details and Ph.D awarded <i>(Please verify the proof)</i>
29	AE/F3.3	Major / Minor / Other research projects and proposal <i>(Please verify Ongoing, Completed and Submitted details)</i>
30	AE/F3.4	Research paper publications (International / National Journal and Conference) <i>(Please verify No. of Publication and Quality of publication)</i>
31	AE/F 3.5	Books, chapters and Conference Proceedings published by faculty <i>(Please verify the documents)</i>
32	AE/F 3.6	Department faculties programme participations <i>(Please verify number of participations with proof)</i>
33	AE/F3.7	Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year <i>(Please verify numbers with proof)</i>
34	AE/F3.8	Record of Consultancy
35	AE/F3.9	<i>Record of MOU and Linkages with institutions/industries for internship, on-the- job training, project work</i> <i>(Please verify the activities)</i>
36	AE/F3.10	Extension Activities 1. NSS students list 2. NCC students list 3. Club activities

		4. Subject related extension activity 5. Societal activity
37	AE/F3.11	Department programmes organized <i>(Please verify number of programmes organized with proof)</i>
38	AE/F3.12	Details of Startups and IPR filing <i>Please verify status filed, published and awarded)</i>
39	AE/F3.13	Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices <i>(Please verify the numbers)</i>
IV-Infrastructure and Learning resource		
40	AE/F 4.1	Department Budget <i>(Please verify 2020-21Budget)</i>
41	AE/F 4.2	List of Laboratories, List of Equipments and List of Equipments with more than 5 Lakhs and Additional Laboratories and augmented facilities
42	AE/F 4.3	Department Library <i>(book list, students and faculty reference record, specimen copy entry)</i>
43	AE/F 4.4	E-content developed by teachers <i>(Please verify samples)</i>
V-Student Support and Progression		
44	AE/F 5.1	Students' Bio-Data
45	AE/F 5.2	Department Class committee meeting

46	AE/F 5.3	Student Participation (Co-Curricular & Extra Curricular) <i>(Please verify Number of participation)</i> Awards and prizes earned by the students
47	AE/F 5.4	Placement, Higher Studies and Entrepreneurship <i>(Please verify No of placement, Higher studies GATE,GRE, TOEFL, etc., score, and Entrepreneur list)</i>
48	AE/F 5,5	Career Guidance Programme <i>(Soft skill Training, bridge course, Yoga, M-Trace files)</i>
49	AE/F 5.6	Alumni Interaction <i>(Please verify Alumni Lecture and Alumni mentoring support)</i>
50	AE/F 5.7	Record of Grievance Redressal Cell /Anti ragging Cell <i>(please verify the documents and action taken)</i>
51	AE/F 5.8	Students involvement in various committees <i>(Please verify the documents)</i>
VI- Governance , Leadership and Management		
52	AE/F 6.1	Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year <i>(please verify eh documents)</i>
53	AE/F 6.2	Record of Staff Meeting
54	AE/F 6.3	Last year department academic audit report (2019-20) and action taken
55	AE/F 6.4	No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

56	AE/F 6.5	Details of professional development / administrative training programmes organized by the Institution for teaching and non-teaching staff during the year
VII- Institutional Values and Best practices		
57	AE/F 7.1	Department News letter (2020-21) and Hard copy of AQAR (2019-20)
58	AE/F 7.2	Professional Society Activities
59	AE/F 7.3	Record of Centre of Excellence and report for the academic year 2020-21
60	AE/F 7.4	Department Future plan <i>(Strategic plan for 2021-22)</i>
61	AE/F 7.5	Gender Equity <i>(Number of gender equity promotion programmes organized by the department)</i>
62	AE/F 7.6	Initiatives taken by the Institution to make the campus eco-friendly <i>(at least one)</i>

1. Overall assessment :

- Files were maintained properly.
- Faculties are well motivated and aligned with institute goals.
- Faculties and students awards received are appreciable.
- Student's participation in co-curricular activities are appreciable.
- Students and faculty members details maintained in software are good.
- IIC related activities are appreciable.
- All faculty members actively participated in the audit.
- Fundamental rules and regulations followed by the college management and department staff members are very good
- Basic amenities and infrastructures in the college is very good
- Students are given good training and placements and it may further be improved.
- More faculty centric and student centric events are conducted. All events objectives are good and can be enhanced
- More Academicians and Industry Experts visited college for knowledge transfer
- Alumni meeting is conducted regularly.
- All the departments conducted technical programmes effectively.
- All IQAC formats are good and regularly updated.
- Center of Excellence activities are good

2. Suggestions for Improvement :

- Providing seed money for innovative research work may be increased.
- 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.
- More faculties and students may be motivated to register for NPTEL and SWAYAM course.
- Students may be motivated to prepare for higher studies.
- More students are to be trained for core companies and Competitive exams.
- Encourage faculties for more patents
- Centre of Excellence activities can improve.
- Faculties are motivated to publish Books, chapters.
- Faculties are motivated to apply R&D proposals in thrust areas.
- Students are motivated to start star-up Company.
- Curriculum maybe expanded by including recent technology like IoT, Digital and sustainable Engineering.
- Career guidance maybe improved.
- Faculties with Ph.D can be encouraged to register as supervisors.

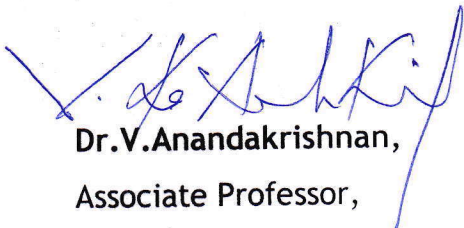
- Mathematics department can initiate class for reasoning, speed maths, etc., for competitive examinations.
- Faculties are motivated to participate more FDPs.

Note : Corrective Action Plan of individual department is attached .

Expert Peer Team members signature



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 Structural Engineering Division
 IIT Madras



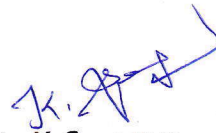
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