

**ACADEMIC AND
ADMINISTRATIVE
AUDIT REPORT**



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 - 2660 303

INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT

Academic Year:

Semester:

Name of the Course : CSE / ECE / EEE / MECH / CIVIL

Auditing Date :

1

Auditing Faculty

2

I. Quality Initiatives		
S.No	Contents	Remarks
1	Department academic Calendar	
2	GAP Identification and action taken to fill the gap	
3	CO-PO, PSO Attainment	
4	Methodology followed to improve quality of teaching learning (e.g collaborative learning, Peer-to Peer learning, etc) and sample documents	
5	Mentoring System (Bright students and weak students)	
6	Project-Rubrics, Best project, Evaluation, Industry expert review	
7	Value added course-Course module, Instructional material, Schedule, List of students, Scheme of evaluation	
8	Guest Lecture- Report	
9	NPTEL / Spoken tutorial	


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10	Industrial visit	
11	Inplant / Internship training	
12	Student participation (Co curricular / Extracurricular)	
13	Faculty Contribution (FDP/Seminar/Conference/Paper Publication in Journals/Proposals)	
14	Department Review Meeting-Cycle test analysis	
15	Research and development file	
16	Professional Society Details	
17	Students qualified in GATE	
18	Department Newsletter	
19	Department Magazine	
20	Department Budget & Expenditure Details(2018-2019)	

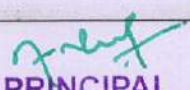
II. Feedback forms

1	Class Committee meeting	
2	Student feedback	
3	Parent feedback	
4	Program end survey	
5	Alumni feedback	
6	Employers feedback(About Alumni student)	
7	HOD feedback for Faculty	
8	Self appraisal by Faculty	
9	API	


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III. Faculty records audited:

Documents to be Reviewed			
S.No	Contents	Description	Remarks
I. Teaching Learning Process(Individual Faculty)			
1	Log Book	Theory	
		Lab	
2	Lab Documents	Master Record	
		Manual	
		Student Observation	
		Student Record	
3	Theory Course File	Course Outcome	
		Course plan including tutorial class	
		Lecture Noting	
		Instructional material	
		Assignment Questions, Scheme of evaluation, Sample copy	
		Activity	
		Content Beyond syllabus	
		Tutorial class details	
		Question paper with Key (CT1/CT2/Model)	
		Corrected Answer Script(All students)	
		Attainment calculation	
4	Lab Course File	Course outcome	
		List of experiments	
		Course Plan	
		Content beyond syllabus	
		Viva -Voce Questions with Answers	
		Rubrics	
		Model exam question paper	


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		Corrected Answer Script(All students)	
		Attainment calculation	
		Assessment Report	
		Course end survey report	
5	Google classroom	Activities, Materials uploaded	
6	Video lecturing	Topics uploaded in website	
7	Counselor Diary	Sample 5 records related to criteria-9	

Comments:

IV. General Observation:

V. Confidential Audit report (if any):

Name & Signature

Auditing Faculty

Name & Signature

Auditing Faculty

IQAC Coordinator

Principal


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MIET/IQAC/AAA/2018-2019/2

26.02.2019

CIRCULAR

We have planned to conduct Academic and Administrative Audit for this Academic Year 2018-19 (EVEN) from 04.03.2019 to 09.03.2019 by the IQAC team members. All the HODs and staff members are asked to extend their cooperation to complete the audit successfully.

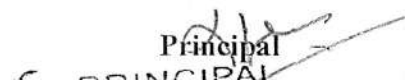
Department wise Audit Schedule

S.No	Department	Auditing date	Auditing Staff
1	Civil	04.03.2019	1.Dr.V.Rethinagiri, Assoc.Prof /Chemistry. 2.Mr.K.Ramesh, Assoc.Prof/Mech.
2	Mechanical	05.03.2019	1.Mr.E.Muthukumaran, Asst.Prof /EEE. 2.Mr.B.Sekar, Asst.Prof/Civil.
3	EEE	06.03.2019	1.Mr.T.Prabakaran, Asst.Prof/Mech. 2.Mr.S.Shanmuga Priya, Asst.Prof /CSE.
4	ECE	07.03.2019	1.Mr.M.Dhandayuthabani, Assoc.Prof/Mech. 2. Mr.G.Sathish Kumar, Asst.Prof /MBA.
5	CSE	08.03.2019	1.Ms.P.Delphine Mary, Asst.Prof /ECE. 2. Dr.V.Rethinagiri, Assoc.Prof /Chemistry.
6	MBA & DASH	09.03.2019	1.Mr.T.Prabakaran, Asst.Prof/Mech. 2.Mr.K.Ramesh, Assoc.Prof /Mech.

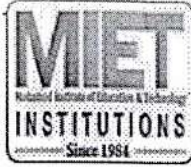

IQAC Coordinator

Copy to:

- 1) The Chairman for kind information.
- 2) HOD's-to be circulated to all faculty members.
- 3) All IQAC Committee members.
- 4) File.


Principal
PRINCIPAL
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Principal
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ACADEMIC AND ADMINISTRATIVE AUDIT

Date: 02.04.2019

Semester: Even

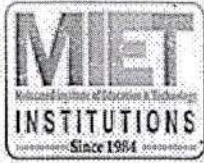
Academic Year: 2018-2019

S. No	Department	Audit Remarks	Corrective Action
1.	Civil Engineering	<ul style="list-style-type: none">• Research and Development File need to be updated• Professional Society details need to be improved• Students qualified in GATE is need to be Improve more	Research and Development file, Professional Society details updated successfully
2.	Computer Science and Engineering	<ul style="list-style-type: none">• Faculty FDP File need to be improved• Budget Expenditure need to submit	It will be planned to complete at the end of semester
3.	Electrical and Electronics Engineering	<ul style="list-style-type: none">• NPTEL certificates need to be updated• Research and Development File need to be updated• Professional Society details need to be improved	NPTEL Certificates submitted and verified. Research and Development file, Professional Society details updated successfully
4.	Electronics and Communication Engineering	<ul style="list-style-type: none">• Some of the Faculty members need to update their log books.	Theory and Laboratory log books of the respective faculty members were verified.
5.	Mechanical Engineering	<ul style="list-style-type: none">• CO-PO Mapping need to be updated in log book• Insist the faculty members to attend more number of Faculty Development programs• Research and Development File need to be updated	CO-PO Mapping updated and verified Research and Development file updated successfully

A. S. S. S. S. S.
IQAC Coordinator

[Signature]
Principal
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INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT

Academic Year: 2018-19

Semester: Even

Name of the Course : ~~CSE / ECE / EEE / MECH / CIVIL~~
 Auditing Date : 05-03-2019
 Auditing Faculty :
 1 Mr. E. Muthukumaran AP / EEE
 2 Mr. B. Sekar AP / CIVIL

I. Quality Initiatives		
S.No	Contents	Remarks
1	Department academic Calendar	Available in the department
2	GAP Identification and action taken to fill the gap	Yes - Identified
3	CO-PO, PSO Attainment	Need to update at the end of the semester
4	Methodology followed to improve quality of teaching learning (e.g collaborative learning, Peer-to Peer learning, etc) and sample documents	Peer to Peer learning followed.
5	Mentoring System (Bright students and weak students)	Mentoring System followed by all the Staff members
6	Project-Rubrics, Best project, Evaluation, Industry expert review	Need to update in the even semester project work
7	Value added course-Course module, Instructional material, Schedule, List of students, Scheme of evaluation	Yes. Value added Courses Conducted.
8	Guest Lecture- Report	Yes - Available.
9	NPTEL / Spoken tutorial	NPTEL - Followed by the Students and the staff members.

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10	Industrial visit	Planned
11	Inplant / Internship training	For the final year students Planned for their Project
12	Student participation (Co curricular / Extracurricular)	Yes Participated in the NSS and YRC club activities.
13	Faculty Contribution (FDP/Seminar/Conference/Paper Publication in Journals/Proposals)	Some of the faculty contribute for the FDP/Seminars.
14	Department Review Meeting-Cycle test, analysis.	Review meeting Conducted.
15	Research and development file	Available - Need to update update
16	Professional Society Details	Yes - file available
17	Students qualified in GATE	NO
18	Department Newsletter	Available (Ay 2017-18)
19	Department Magazine	Available (Ay 2017-18)
20	Department Budget & Expenditure Details(2018-2019)	Budget available for the Ay 2018-19. Expenditure need to update
II. Feedback forms		
1	Class Committee meeting	Yes Class Committee meeting Conducted.
2	Student feedback	Got the students feedback.
3	Parent feedback	Yes. But need to update more.
4	Program end survey	Yes. Submitted for the Ay-2017-18
5	Alumni feedback	Need to improve.
6	Employers feedback(About Alumni student)	Need to update.
7	HOD feedback for Faculty	Available in the department
8	Self appraisal by Faculty	API Submitted.
9	API	Yes - Submitted.


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III. Faculty records audited:

Documents to be Reviewed			
S.No	Contents	Description	Remarks
I. Teaching Learning Process(Individual Faculty)			
1	Log Book	Theory	Available
		Lab	Available
2	Lab Documents	Master Record	Available
		Manual	Yes - Available
		Student Observation	Yes available
		Student Record	Yes - Available
3	Theory Course File	Course Outcome	Available for 2017-18
		Course plan including tutorial class	Available
		Lecture Noting	Lecture Notes available
		Instructional material	Nil
		Assignment Questions, Scheme of evaluation, Sample copy	Yes - available
		Activity	Need to update.
		Content Beyond syllabus	Need to update.
		Tutorial class details	Yes Available
		Question paper with Key (CT1 & CT2)	Yes - Available
		Corrected Answer Script(All students)	Sample Answers Key Verdict
		Attainment calculation	NO
		Assessment Report	NO
		Course end survey report	NO
		Remedial action taken	Yes.
4	Lab Course File	Course outcome	Available
		List of experiments	Available
		Course Plan	Yes Available
		Content beyond syllabus	Yes Available
		Viva -Voce Questions with Answers	Yes - Available
		Rubrics	Yes followed
		Model exam question paper	NO

		Corrected Answer Script(All students)	Need to Submit
		Attainment calculation	Yes
		Assessment Report	Yes
		Course end survey report <i>to be updated</i>	Need to Submit.
5	Google classroom	Activities, Materials uploaded	Yes uploaded
6	Video lecturing	Topics uploaded in website <i>for update</i>	Need to update
7	Counselor Diary	Sample 5 records related to criteria-9	Yes verified.

Comments:

All the documents has been verified and some of the documents should update.

IV. General Observation:

Need to update some documents such as video lecturing, course end survey report, Content Beyond Syllabus & Activity report.

V. Confidential Audit report (if any):

Yes - Good.





Name & Signature

Name & Signature

Auditing Faculty
(Mr. E. Muthukumaran)

Auditing Faculty
(Mr. B. Sekar)


IQAC Coordinator (Dept. Coordinator)


Principal
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A. Sathish
IQAC Coordinator

is informed to the concerned HoD, to update the general observation noted in IQAC auditing for improvement.

A. Sathish
(IQAC Coordinator)


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INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT

Academic Year: 2018 - 2019 Semester: EVEN

Name of the Course : CSE / ECE / ~~EEE~~ / MECH / CIVIL ✓

Auditing Date : 04 - 03 - 2019

Auditing Faculty :
1 Dr. V. Rethinagiri Prof / Chemistry,
2 R. Ramesh Asso. prof / Mech.

I. Quality Initiatives		
S.No	Contents	Remarks
1	Department academic Calendar	Displayed in Notice Board.
2	GAP Identification and action taken to fill the gap	Yes identified & fill the gap by conducting add on course.
3	CO-PO, PSO Attainment	Yes available
4	Methodology followed to improve quality of teaching learning (e.g collaborative learning, Peer-to Peer learning, etc) and sample documents	Contemporary
5	Mentoring System (Bright students and weak students)	Yes available
6	Project-Rubrics, Best project, Evaluation, Industry expert review	Yes available for Design project & main project.
7	Value added course-Course module, Instructional material, Schedule, List of students, Scheme of evaluation	Yes available & verified.
8	Guest Lecture- Report	Yes available
9	NPTEL / Spoken tutorial	Need to update


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10	Industrial visit	Yes available
11	Inplant / Internship training	Yes available - very few
12	Student participation (Co curricular / Extracurricular)	Yes available (Sports Seminars)
13	Faculty Contribution (FDP/Seminar/Conference/Paper Publication in Journals/Proposals)	Yes available (FDP, paper publication, conference)
14	Department Review Meeting-Cycle test analysis	Conducted & Maintained in file. available.
15	Research and development file	Need to update
16	Professional Society Details	Need to improve
17	Students qualified in GATE	Need to improve more
18	Department Newsletter	NA
19	Department Magazine	NA
20	Department Budget & Expenditure Details(2018-2019)	Yes available.

TO Update

II. Feedback forms

1	Class Committee meeting	Yes available
2	Student feedback	Yes available
3	Parent feedback	Need to update
4	Program end survey	NA
5	Alumni feedback	NA
6	Employers feedback(About Alumni student)	Available
7	HOD feedback for Faculty	Available
8	Self appraisal by Faculty	Available
9	API	Available

[Signature]
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III. Faculty records audited:

Documents to be Reviewed			
S.No	Contents	Description	Remarks
I. Teaching Learning Process(Individual Faculty)			
1	Log Book	Theory	Yes available
		Lab	Yes available
2	Lab Documents	Master Record	Yes Available
		Manual	Yes available
		Student Observation	Available
		Student Record	Available & Verified
3	Theory Course File	Course Outcome	Available
		Course plan including tutorial class	Available in log book
		Lecture Noting	Available ^{Hand Copy} Log
		Instructional material	Available
		Assignment Questions, Scheme of evaluation, Sample copy	Available for ^{ct1} _{ct2}
		Activity	Need to update
		Content Beyond syllabus	Available ^{nd.}
		Tutorial class details	Need to update
		Question paper with Key (CT1/CT2/Model)	Available
		Corrected Answer Script(All students)	Available
		Attainment calculation	NA
		Assessment Report	Need to update
		Course end survey report	NA
4	Lab Course File	Course outcome	Available
		List of experiments	Available
		Course Plan	Yes available
		Content beyond syllabus	Yes available
		Viva -Voce Questions with Answers	Not available
		Rubrics	NA
		Model exam question paper	Available.

(Signature)

		Corrected Answer Script(All students)	Yes
		Attainment calculation	NA ✓
		Assessment Report	NA ✓
		Course end survey report	NA ✓
5	Google classroom	Activities, Materials uploaded	Available
6	Video lecturing	Topics uploaded in website	NA
7	Counselor Diary	Sample 5 records related to criteria-9	Available

Comments:

IV. General Observation:

tutorial class, parent feed back, RxD file has to be updated.
 Assistant

V. Confidential Audit report (if any):

V. Subbaraj
 Name & Signature

Auditing Faculty

Dr. V. Retinagiri

A. Subbaraj
 IQAC Coordinator

K. Ramesh
 Name & Signature

Auditing Faculty

K. Ramesh
 Associate Professor
 Principal

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K. Ramesh
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INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT

Academic Year: 2018-19

Semester: Even

Name of the Course : CSE / ~~ECE~~ / ~~EEE~~ / MECH / CIVIL

Auditing Date : 8/3/19

Auditing Faculty : 1 Ms. P. Delphine Mary
2 Dr. V. Rethinagiri

I. Quality Initiatives		
S.No	Contents	Remarks
1	Department academic Calendar	Yes, Available
2	GAP Identification and action taken to fill the gap	Yes - Identified
3	CO-PO, PSO Attainment	Yes - Verified
4	Methodology followed to improve quality of teaching learning (e.g collaborative learning, Peer-to Peer learning, etc) and sample documents	Yes - Peer-to-Peer learning
5	Mentoring System (Bright students and weak students)	Mentoring System followed. Document Verified.
6	Project-Rubrics, Best project, Evaluation, Industry expert review	For the Project work Project-Rubrics followed for the evaluation
7	Value added course-Course module, Instructional material, Schedule, List of students, Scheme of evaluation	Yes - Value added Program conducted in the department.
8	Guest Lecture- Report	Yes. Verified
9	NPTEL / Spoken tutorial	NPTEL - Certificates Verified.

P. Delphine Mary
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10	Industrial visit -	Yes - Verified.
11	Inplant / Internship training	Yes - Inplant training arranged
12	Student participation (Co curricular / Extracurricular)	Students Participated in the Sports day
13	Faculty Contribution (FDP/Seminar/Conference/Paper Publication in Journals/Proposals)	Some of the faculty attended the FDP and Conference.
14	Department Review Meeting-Cycle test analysis	Yes - Internal assessment exam review conducted.
15	Research and development file	Yes - verified.
16	Professional Society Details	Yes - Verified.
17	Students qualified in GATE	NO.
18	Department Newsletter	Yes - verified.
19	Department Magazine	Yes - verified.
20	Department Budget & Expenditure Details(2018-2019)	Budget allocation - verified Expenditure need to submit To UPA
II. Feedback forms		
1	Class Committee meeting	Yes - available
2	Student feedback	Yes - available
3	Parent feedback	-
4	Program end survey	Yes - Available
5	Alumni feedback	Need to update.
6	Employers feedback(About Alumni student)	Need to update.
7	HOD feedback for Faculty	Yes - Available
8	Self appraisal by Faculty	Yes - Available
9	API	API forms available for the Previous semester

III. Faculty records audited:

Documents to be Reviewed			
S.No	Contents	Description	Remarks
I. Teaching Learning Process(Individual Faculty)			
1	Log Book	Theory	Yes - Available
		Lab	Yes - Available
2	Lab Documents	Master Record	Yes - Available
		Manual	Yes - Verified
		Student Observation	Verified.
		Student Record	Verified
3	Theory Course File	Course Outcome	Yes - Available
		Course plan including tutorial class	Yes - Available
		Lecture Noting	Yes - Available
		Instructional material	Yes - Available
		Assignment Questions, Scheme of evaluation, Sample copy	Available
		Activity	Need to complete
		Content Beyond syllabus	Yes - Verified
		Tutorial class details	Verified for the subjects.
		Question paper with Key (CT1/CT2/Model)	Yes - Available
		Corrected Answer Script(All students)	Yes - Verified
		Attainment calculation	Need to complete
		Assessment Report	Need to update
		Course end survey report	Not applicable
Remedial action taken	Yes.		
4	Lab Course File	Course outcome	Yes - available
		List of experiments	Yes - available
		Course Plan	Yes - available
		Content beyond syllabus	Yes - available
		Viva -Voce Questions with Answers	Yes - available
		Rubrics	Rubrics followed
		Model exam question paper	Yes - Verified

		Corrected Answer Script(All students)	Yes-verified
		Attainment calculation	Yes- need to update
		Assessment Report	Yes-verified
		Course end survey report	Yes-verified
5	Google classroom	Activities, Materials uploaded	Verified.
6	Video lecturing	Topics uploaded in website	Verified
7	Counselor Diary	Sample 5 records related to criteria-9	Verified.

Comments:

Alumni feed back need to update

IV. General Observation:

Attainment & Assessment calculation to be updated.

Conveyed the findings to the department Head for remedial action.


V. Confidential Audit report (if any):


Name & Signature

Auditing Faculty

P. Delphine Mary

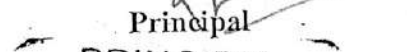
(Assistant
IQAC Coordinator)


Name & Signature

Auditing Faculty

(Dr. V. Rethinrajini)


IQAC Coordinator


Principal
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INTERNAL QUALITY ASSURANCE CELL (IQAC)

ACADEMIC AND ADMINISTRATIVE AUDIT

Academic Year: 2018-19

Semester: Even

Name of the Course : ~~CSE / ECE / EEE / MECH / CIVIL~~

Auditing Date : 6/3/19

Auditing Faculty : 1 Mr. T. PRABAKARAN
2 Ms. S. SHANMUGAPRIYA

I. Quality Initiatives		
S.No	Contents	Remarks
1	Department academic Calendar	Yes available & Verified
2	GAP Identification and action taken to fill the gap	Yes gap was identified and the add on course was conducted based on that
3	CO-PO, PSO Attainment	Yes available & Verified.
4	Methodology followed to improve quality of teaching learning (e.g collaborative learning, Peer-to Peer learning, etc) and sample documents	File was available and need to update
5	Mentoring System (Bright students and weak students)	Yes available and Verified.
6	Project-Rubrics, Best project, Evaluation, Industry expert review	Yes available and Verified.
7	Value added course-Course module, Instructional material, Schedule, List of students, Scheme of evaluation	Yes file available and verified -
8	Guest Lecture- Report	File was Verified.
9	NPTEL / Spoken tutorial	File available & need to update

A. S. J.
PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.

10	Industrial visit	File available & Verified
11	Implant / Internship training	Need to collect ^{the} certificate
12	Student participation (Co curricular / Extracurricular)	File available but need to update
13	Faculty Contribution (FDP/Seminar/Conference/Paper Publication in Journals/Proposals)	Yes available and Verified.
14	Department Review Meeting-Cycle test analysis	Yes available and Verified.
15	Research and development file	Available & Verified
16	Professional Society Details	Available & Verified
17	Students qualified in GATE	NO
18	Department Newsletter	Available & Verified
19	Department Magazine	Available & Verified
20	Department Budget & Expenditure Details(2018-2019)	Available & Verified

II. Feedback forms

1	Class Committee meeting	Meeting was conducted.
2	Student feedback	Feedback forms available
3	Parent feedback	Parent feedback forms were available.
4	Program end survey	Verified.
5	Alumni feedback	NIL
6	Employers feedback(About Alumni student)	NIL
7	HOD feedback for Faculty	Available.
8	Self appraisal by Faculty	Available.
9	API	Available and its Verified.

III. Faculty records audited:

Documents to be Reviewed			
S.No	Contents	Description	Remarks
I. Teaching Learning Process(Individual Faculty)			
1	Log Book	Theory	Available
		Lab	Available
2	Lab Documents	Master Record	Available & Verified
		Manual	Available & Verified
		Student Observation	Available & Verified
		Student Record	Available & Verified
3	Theory Course File	Course Outcome	Available
		Course plan including tutorial class	Tutorial class was not present
		Lecture Noting	Not available
		Instructional material	Available (Soft copy)
		Assignment Questions, Scheme of evaluation, Sample copy	Available
		Activity	Not Available
		Content Beyond syllabus	Available but there is no proof.
		Tutorial class details	Time table missing.
		Question paper with Key (CT1/CT2/Model)	Available
		Corrected Answer Script(All students)	Available
		Attainment calculation	Need to update
		Assessment Report	Available
		Course end survey report	Available
Remedial action taken	-		
4	Lab Course File	Course outcome	Available
		List of experiments	Available
		Course Plan	Available
		Content beyond syllabus	-
		Viva -Voce Questions with Answers	Available
		Rubrics	Available
		Model exam question paper	Available

		Corrected Answer Script(All students)	Available
		Attainment calculation	Need to update
		Assessment Report	Not Available
		Course end survey report	Not available
5	Google classroom	Activities, Materials uploaded	Available
6	Video lecturing	Topics uploaded in website	Available
7	Counselor Diary	Sample 5 records related to criteria-9	Available

Comments:

IV. General Observation:

Partorial class to be included. Need Attainment calculation. The observation was informed to HOD/COE for suitable action.

V. Confidential Audit report (if any):

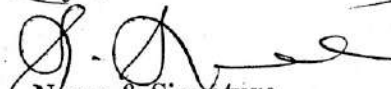


Name & Signature

Auditing Faculty

[Mr. T. PRABAKARAN]

A. Shanmuga Priya
 IQAC Co-ordinator



Name & Signature

Auditing Faculty

[MS. S. SHANMUGA PRIYA]

A. Shanmuga Priya
 IQAC Coordinator

A. Shanmuga Priya
 PRINCIPAL
 MIET ENGINEERING COLLEGE
 GUNDUR, TIRUCHIRAPALLI - 620 007.

A. Shanmuga Priya
 PRINCIPAL
 M.I.E.T. ENGINEERING COLLEGE
 GUNDUR, TIRUCHIRAPPALLI-620 007.

THEORY

ATTENDANCE AND ASSESSMENT RECORD

(To be maintained by the Faculty Member)

PROGRAMME : B.E / MECH

COURSE CODE & TITLE : ME8595-THERMAL ENGINEERING - II

YEAR / SEMESTER : 2019-20 THIRD YEAR / V

ACADEMIC YEAR : 2019-20

NAME OF THE FACULTY : M.DHANDAYUTHABANI

DESIGNATION & DEPARTMENT : ASSOC. PROF & MECH

VISION AND MISSION

INSTITUTION VISION

To be a Centre of excellence in technical Education through technical, Ethical and Professional skills for meeting the diverse needs of the Society in Particular Muslim minority Community and the nation.

INSTITUTION MISSION

- * To impart Quality Education, Training and Research in the fields of Engineering and Technology.
- * To provide a conducive learning environment that enables the students to achieve Professional and Personal growth.
- * To expose the contemporary issues of Society, ethical Practices and to create environmental awareness.
- * To provide the required infrastructural facilities for developing the Professional and innovative skills.

DEPARTMENT VISION

Establish a globally recognised school of excellence in the field of Mechanical Engineering.

DEPARTMENT VISION

- * Impart quality education in mechanical Engineering through effective teaching-learning techniques.
- * Provide necessary infrastructure and facilities for the students Personal and Professional growth
- * Expose to specialised mechanical Engineering domains to harness evolving technologies.
- * Create awareness in ethical Practices followed internationally.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1	TO Prepare the students to apply their skills of basic sciences, engineering design, modeling, manufacturing, thermal science and management to real-life problems in industries.
PEO 2	TO motivate the students to effectively participate in multidisciplinary projects for the development of our society.
PEO 3	TO create awareness among the students in the fields of research and development in mechanical Engineering and other allied fields.
PEO 4	

PROGRAMME OUT COMES (POs)

PO 1	Engineering Knowledge
PO 2	Problem analysis
PO 3	Design / development of solutions
PO 4	Conduct investigations of complex problems
PO 5	Modern tool usage
PO 6	The engineer and society
PO 7	Environment and sustainability
PO 8	Ethics
PO 9	Individual and team work.
PO 10	Communication
PO 11	Project management and finance
PO 12	Life-Long Learning.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1	Ability to apply the concepts of mechanical engineering fields to design mechanical systems and processes.
PSO 2	Ability to demonstrate professional and entrepreneurial skills to meet the industrial requirements.
PSO 3	

OBJECTIVES:

- To apply the thermodynamic concepts for Nozzles, Boilers, Turbines, and Refrigeration & Air Conditioning Systems.
- To understand the concept of utilising residual heat in thermal systems.

UNIT I STEAM NOZZLE

9

Types and Shapes of nozzles, Flow of steam through nozzles, Critical pressure ratio, Variation of mass flow rate with pressure ratio. Effect of friction. Metastable flow.

UNIT II BOILERS

9

Types and comparison. Mountings and Accessories. Fuels - Solid, Liquid and Gas. Performance calculations, Boiler trial.

UNIT III STEAM TURBINES

9

Types, Impulse and reaction principles, Velocity diagrams, Work done and efficiency – optimal operating conditions. Multi-staging, compounding and governing.

UNIT IV COGENERATION AND RESIDUAL HEAT RECOVERY

9

Cogeneration Principles, Cycle Analysis, Applications, Source and utilisation of residual heat. Heat pipes, Heat pumps, Recuperative and Regenerative heat exchangers. Economic Aspects.

UNIT V REFRIGERATION AND AIR – CONDITIONING

9

Vapour compression refrigeration cycle, Effect of Superheat and Sub-cooling, Performance calculations, Working principle of air cycle, vapour absorption system, and Thermoelectric refrigeration. Air conditioning systems, concept of RSHF, GSHF and ESHF, Cooling load calculations. Cooling towers – concept and types.

TOTAL:45 PERIODS**OUTCOMES:**

Upon the completion of this course the students will be able to

- CO1 Solve problems in Steam Nozzle
 CO2 Explain the functioning and features of different types of Boilers and auxiliaries and calculate performance parameters.
 CO3 Explain the flow in steam turbines, draw velocity diagrams for steam turbines and solve problems.
 CO4 Summarize the concept of Cogeneration, Working features of Heat pumps and Heat exchangers
 CO5 Solve problems using refrigerant table / charts and psychrometric charts

TEXT BOOKS:

- Kothandaraman, C.P., Domkundwar .S and Domkundwar A.V., "A course in Thermal Engineering", Dhanpat Rai & Sons, 2016.
- Mahesh. M. Rathore, "Thermal Engineering", 1st Edition, Tata Mc Graw Hill Publications, 2010.

REFERENCES:

- Arora .C.P., "Refrigeration and Air Conditioning", Tata Mc Graw Hill, 2008
- Ballaney. P.L. " Thermal Engineering", Khanna publishers, 24th Edition 2012
- Charles H Butler : "Cogeneration" McGraw Hill, 1984.
- Donald Q. Kern, " Process Heat Transfer", Tata Mc Graw Hill, 2001.
- Sydney Reiter "Industrial and Commercial Heat Recovery Systems" Van Nostrand Reinholds, 1985.

Website : WWW . ama .univ . edu .

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COURSE INFORMATION SHEET

Programme : B.E		Regulation : 2017
Course Code & Title ME 8595 - THERMAL ENGG - II		Academic Year : 2019-20
Year / Semester : III / V	Section: A	Course Instructor : M. DAANDAY UTHABANI
Course area / Domain : THERMAL		Categorization of Courses:
Contact Hours : 06	No of Credit : 03	

Prerequisites if any

Course code	Course Name	Description	Semester
1 ME8391	ENGG. THERMODYNAMICS	Basic concepts and relations.	III
2 ME8493	THERMAL ENGINEERING - I	Application of T.D concepts in I.C engine.	IV

Course Objectives:

<p>To apply the thermodynamics concepts for nozzles, Boilers, Turbines, and RAC Systems.</p> <p>To understand the concept of utilising residual heat in thermal systems.</p>
--

Course Outcomes:

S.No.	Description	Bloom's Taxonomy (BT) Knowledge level
1	Solve Problems in Steam nozzle	BT2
2	Explain the functioning and features of different types of Boilers.	BT2
3	Explain the flow in steam turbines draw velocity diagrams for Steam Turbine	BT3
4	Summarize the concept of cogeneration Working features of Heat Pump.	BT3
5	Solve Problems using refrigeration table / chart.	BT2

CO - PO AND CO-PSO MAPPING

Course Outcome	Programme Outcomes (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO - 1	H	H	M	H									H	M	
CO - 2	H	M	M	H	M				M				H	H	
CO - 3	M	H	H	H		M							H	M	
CO - 4	H	H	H	H	M						H		H	H	
CO - 5	H	H	H	M		M					H		H	H	

L - Low Contribution M - Medium Contribution H - High Contribution

Delivery / Instructional Methodologies (Tick ✓)

<input checked="" type="checkbox"/> Chalk & Talk	<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Web Resources	<input checked="" type="checkbox"/> Charts
<input type="checkbox"/> Multi Media	<input type="checkbox"/> Group learning	<input type="checkbox"/> Add-On-Courses	<input type="checkbox"/> Others

Assessment Methodologies - Direct (Tick ✓)

<input checked="" type="checkbox"/> Assignments	<input type="checkbox"/> Seminar Presentation	<input checked="" type="checkbox"/> Tests/Model Exams	<input checked="" type="checkbox"/> University Examination
<input type="checkbox"/> Lab Practices	<input type="checkbox"/> Viva	<input type="checkbox"/> Mini / Major Projects	<input type="checkbox"/> Certifications
<input type="checkbox"/> Add-On Courses	<input type="checkbox"/> Case study/ problems	<input type="checkbox"/> Documented observation and analysis of behaviour or performance	<input type="checkbox"/> Others

Assessment Methodologies - Indirect (Tick ✓)

<input checked="" type="checkbox"/> Course End Survey	<input type="checkbox"/> Alumni Survey
<input type="checkbox"/> Graduate Exit Survey	<input type="checkbox"/> Others

TIME-TABLE


Programme: B.E

Year / Semester : III / V

Subject : THERMAL ENGINEERING - II

Day / Hours / Time	I	II	Tea Break	III	IV	Lunch Break	V	VI	VII	
	09.15 - 10.05	10.05 - 10.55		11.15 - 12.05	12.05 - 12.55		02.00 - 02.50	02.50 - 03.40	03.40 - 04.30	
Monday					TE-II A					
Tuesday	TE-II A									
Wednesday									TE-II A	
Thursday							TE-II A			
Friday				← TE-II A →						

Date of Reopening	12.06.2019.
Test - 1	01.08.2019
Test - 2	12.9.19 to 20.9.19
Model Exam	
Last Working Day	
University Exam Date(s)	


 SIGNATURE OF THE FACULTY


 HOD

COURSE PLAN

II-Unit - BOILERS

S.No.	Topics to be covered	BT Level	COs	Mode of Delivery	Planned Date	Period	Completed Date	Reason for Deviation (if any)	Staff Sign
1	Introduction about boilers	BT2	CO2	BB	28/6/19	3, 4	03/7/19	CL on 26/6/19 and 27/6/19	
2	Types of Boilers	BT2	CO2	BB	29/6/19	1	8/7/19 09/7/19		
3	Comparison between Boilers	BT2	CO2	BB	5/7/19	3, 4	10/7/19	Due to NBA work	
4	Mounting and Accessories of boilers	BT2	CO2	BB	8/7/19	4	15/7/19 16/7/19	-	
5	Fuels used in boilers - solid, liquid and gas.	BT2	CO2	BB	9/7/19	1	7/7/19	-	
6	Performance Calculations of Boiler	BT2	CO2	BB	10/7/19 11/7/19	7 5	19/7/19 20/7/19	→ (Tutorial)	
7	Performance Calculations of boiler	BT2	CO2	BB	12/7/19	3, 4	24/7/19 25/7/19	-	
8	Performance Calculations of boilers.	BT2	CO2	BB	13/7/19 15/7/19	4	26/7/19	-	
9	Boiler trial.				16/7/19	1	27/7/19	-	

Hours allotted as per the syllabus : 09

Hours Planned to complete the Unit : 13

Hours taken to complete the unit : 13

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COURSE PLAN

I-Unit- STEAM NOZZLE

S.No.	Topics to be covered	BT Level	COs	Mode of Delivery	Planned Date	Period	Completed Date	Reason for Deviation (if any)	Staff Sign
1	Introduction about steam nozzles Basic Thermal Concepts in nozzles.	BT2	CO1	BB	12.6.19	7	12/6/19	—	
2	Types and shapes of nozzles.		CO1	BB	13/6/19	5	13/6/19	—	
3	Flow of Steam through nozzles Properties of steam.		CO1	BB	14/6/19	3,4	14/6/19	—	
4	Critical Pressure ratio and the Variation of mass flow rate with Pressure ratio.		CO1	BB	17/6/19	4	17/6/19	—	
5	Effect of friction and nozzle efficiency. Metastable flow.		CO1	BB	18/6/19	1	18/6/19	—	
6	Problems in nozzle.		CO1	BB	19/6/19	7	19/6/19	—	
7	Problems in nozzle		CO1	BB	20/6/19	3,4	20/6/19	—	
8	Problems in nozzle		CO1	BB	24/6/19	7	25/6/19	CL on 24/6	
9	Problems in nozzle.		CO1	BB	25/6/19	1	25/6/19	—	
			CO1	BB	26/7/19	7	26/6/19	—	
			CO1	BB	27/6/19	5	01/7/19	CL on 25/6 and 27/6	
					27/6/19	5	02/7/19	CL on 26/6 27/6/19	

Hours allotted as per the syllabus : 12
 Hours Planned to complete the Unit : 12
 Hours taken to complete the unit : 14

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Sl. No.	ROLL NO.	NAME OF THE STUDENT	MONTH	JUNE											July	
			DATE	12	13	14	17	18	19	20	25	26	01			
			HOUR	7	5	3,4	4	1	7	5	1	7	4			
1	E1172001	Abdul Ajees. S	62	/	/	/	/	/	/	/	/	/	/	/	/	/
2	02	Abdul AZEES. M	62	a	a	/	/	/	/	/	/	/	a	/	/	/
3	03	Abdulbagath. B	22	a	a	a	/	/	/	/	/	/	/	/	/	/
4	07	Abdul Rahman. A	11	/	/	/	/	/	/	/	/	/	/	/	/	/
5	08	Abubaker Siddik. P	36	a	a	a	/	/	a	/	/	/	/	/	/	/
6	09	Ahamed Meeran Sha. S	33	/	a	a	/	/	/	/	/	/	/	/	/	/
7	10	Ahamed Subair. K	20	a	a	a	a	/	/	/	/	/	/	/	/	/
8	11	Akash. R	38	a	a	a	/	/	/	/	/	/	/	/	/	/
9	13	Akbar Ali. A	05	a	a	a	/	a	a	a	/	/	/	/	/	/
10	15	Anbarasan. A	06	a	a	a	/	a	/	a	a	a	a	a	a	a
11	16	Antony Bright Sun. P	45	a	a	a	/	/	/	/	a	/	a	/	a	/
12	17	Antony Praveen. J	06	a	a	a	a	a	a	a	a	/	/	/	/	/
13	20	Arulkabiriyal. M	63	/	/	/	/	/	/	/	/	/	/	/	/	/
14	21	Arun Kumar. V	54	a	a	a	a	/	/	/	/	/	/	/	/	/
15	22	Arun Kumar. S	15	/	a	a	/	/	/	/	/	/	a	a	/	/
16	23	Arun Kumar. M	18	a	a	a	a	a	/	/	/	/	/	/	/	/
17	24	Bala Murugan. J	39	a	a	a	/	/	/	/	/	/	/	/	/	/
18	25	Basheer Ahamed. A	AB	a	a	a	a	a	a	a	a	a	a	a	a	a
19	26	Benedict. A	51	46	a	a	/	/	/	/	/	/	/	/	/	/
20	27	Bharath. R	05	a	a	a	a	a	a	a	a	/	/	a	/	/
21	28	Bharathi. N	14	a	a	a	/	/	/	/	/	/	/	/	/	/
22	29	Boopathi. B	AB	a	a	a	a	a	a	a	a	a	a	a	a	a
23	30	chandran. C	40	a	a	a	/	a	/	a	/	/	/	/	/	/
24	31	christober. P	34	a	a	/	/	/	/	/	/	/	/	/	/	/
25	32	Deepan. V	43	a	a	/	/	/	/	a	/	/	/	/	/	/
26	33	Devagar. U	28	a	a	a	/	/	a	/	/	/	/	/	/	/
27	34	Dhinesh. P.K	31	/	/	/	/	/	/	/	/	/	/	/	/	/
28	35	Ezaz Ahamed. A	05	a	a	a	a	/	/	/	/	/	a	/	/	/
29	37	Faizudeen. H	42	a	a	a	/	/	/	/	/	/	/	/	/	/
30	38	Felix Prabhakar. M	32	/	/	/	/	/	/	/	/	/	/	/	/	/
31	39	Haja Kamaludeen. G	09	a	a	a	a	/	/	/	/	/	a	a	/	/
32	40	Haris. J	61	46	/	/	/	/	/	/	/	/	/	/	/	/
33	41	Harish Kumar. R	09	a	a	a	/	/	a	/	/	/	/	a	/	/
34	42	Ijas Ahamed. S	AB	a	a	a	a	a	a	a	a	a	a	a	a	a
35	44	Jabbar Ali. A	45	a	a	a	/	/	/	/	/	/	/	/	/	/
36	45	Jafar Sharif. R	00	a	a	a	/	/	/	/	/	/	/	/	/	/
37	46	Jafar Sait. A	38	a	a	a	/	/	/	/	/	/	/	/	/	/
38	47	Jakir Hussain. A	85	/	/	/	/	/	/	/	/	/	/	/	/	/
39	48	Jamaludheen. S	05	a	a	a	/	/	/	/	/	/	a	a	a	a
40	49	Jaya Seelan. S	02	a	a	a	a	a	a	a	a	a	a	a	a	a