

ADITYA ENGINEERING COLLEGE

An Autonomous Institution

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Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Program Name : M.Tech. in Thermal Engineering

Syllabus Revision for the Academic Year 2017-2018

S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	172TE1T01	Optimization Techniques & Applications	0
2	I	172TE1T02	Advanced Thermodynamics	0
3	I	172TE1T03	Advanced Heat & Mass Transfer	0
4	I	172TE1T04	Advanced Fluid Mechanics	0
5	I	172TE1E01	Gas Dynamics	0
6	I	172TE1E02	Refrigeration & Cryogenics	20
7	I	172TE1E03	Renewable Energy Technologies	0
8	I	172TE1E04	Theory and Technologies of Fuel Cells	0
9	I	172TE1E05	Advanced IC Engines	0
10	I	172TE1E06	Solar Energy Technology	20
11	I	172TE1E07	Turbo Machines	0
12	I	172TE1E08	Alternative Fuels Technologies	0
13	I	172TE1L01	Thermal Engineering Lab	0
14	II	172TE2T05	Fuels, Combustion & Environment	0
15	II	172TE2T06	Energy Management	0
16	II	172TE2T08	Finite Element Method	0
17	II	172TE2T07	Computational Fluid Dynamics	0

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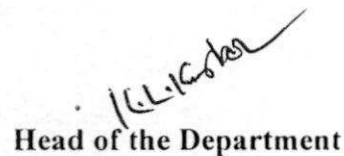
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
18	II	172TE2E09	Materials Technology	0
19	II	172TE2E10	Convective Heat Transfer	0
20	II	172TE2E11	Thermal and Nuclear Power Plants	0
21	II	172TE2E12	Advanced Automobile Engineering	0
22	II	172TE2E13	Thermal Measurements and Process Controls	0
23	II	172TE2E14	Cryogenic Engineering	0
24	II	172TE2E15	Jet Propulsion and Rocketry	0
25	II	172TE2E16	Equipment Design for Thermal Systems	0
26	II	172TE2L02	Thermal Systems Design Lab	0
27	III	163204A	Comprehensive Viva-Voce	0
28	III	163204B	Seminar – I	0
29	III	163204C	Project Work Part - I	0
30	IV	164204A	Seminar – II	0
31	IV	164204B	Project Work Part - II	0
Total number of courses in the academic year 2017-2018				31
Number of courses having revision in syllabus content $\geq 20\%$ in the academic year 2017-2018				2
Percentage of syllabus revision carried out in the academic year 2017-2018 = $(2/31) \times 100$				= 6



Program Coordinator



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Head of the Department

Head of the Department
Department of Mechanical Engineering
Aditya Engineering College (A)
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Department of Mechanical Engineering

Date: 01-06-2017

Minutes of the I Meeting of BOS Scheduled on 29/05/2017

The I meeting of the BOS of ME was held on 29/05/2017 at 10.00 AM. Mr. K.L. Kishore, Chairperson presided over the meeting.

Agenda 1.1: Welcome address by Chairperson-BOS

Mr. K.L. Kishore, BOS Chairperson invited the distinguished members of BOS to the I BOS Meeting.

Agenda 1.2: Discussion and ratification of the vision and mission of the department and Program Educational Objectives (PEOs). Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the programs under the department

The members of BOS discussed and ratified of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.

Agenda 1.3: Discussion on proposed AR17 program structures of B.Tech (ME) and M.Tech (TE) and ratification of the same.

BOS members approved B.Tech and M.Tech course structure and ratified the same.

After long discussions with the BOS members on the course structure of B.Tech, the following suggestions are made:

- Suggested to include Green Engineering Systems as an elective in VII and the same is approved.
- Suggested to include basics of cryogenics in Refrigeration & Air conditioning subject for VI semester.
- Suggested to include determination of fuel properties as an additional experiment in thermal engineering lab-I for IV semester.
- Suggested to include special curves and conversion of orthographic to isometric projection in III semester
- Suggested to include theory of machines laboratory in V semester and machine tools laboratory in VI semester and the same is approved.

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- Suggested to include comparison of belt drives with other power transmitting devices like chains and gears, in elements of mechanical engineering in I semester for Petroleum Technology branch and the same is approved.
- Suggested to include mechanical engineering topics in place of strength of materials in elements of mechanical engineering I semester for Civil Engineering branch and the same is approved.
- Suggested to increase the number of open elective compared to focus more on the upcoming technologies.
- The percentage of courses revised in the academic year 2017-2018 for B.Tech (ME) is 11.68 % and M.Tech (TE) Program is 6%. The list of courses revised in the academic year 2017-18 is enclosed as Annexure-I .

Agenda 1.4: Discussion on proposed AR17 B.Tech (ME), M.Tech (TE) Programmes I&II semesters syllabus and ratification of the same.

BOS members approved B.Tech (ME) and M.Tech (TE) I&II semesters syllabus and ratified the same.

Agenda 1.5: Ratification of the proposed model question papers for the sessional and external examinations of AR17 B.Tech (ME) and M.Tech (TE) programs

The members of BOS have approved the model question papers for the sessional and external examinations for the pattern and the same is approved.

Agenda 1.6: Finalization of Experts from reputed institutions for setting question paper and valuation of answer scripts.

The members of BOS accepted the list consisting of the names of reputed autonomous institutions for setting question paper and valuation of answer scripts.

Agenda 1.7: Analysis of Results

The BOS chairperson presented the odd and even semesters pass percentage for the academic year 2016 - 2017. The BOS members noted the same.

Agenda 1.8: Analysis of Students Feedback & Action Taken Report

BOS Chairperson expressed that the student feedback & action taken report process initiated at end of each semester.

Agenda 1.9: Analysis of stakeholder's feedback on Curriculum

BOS Chairperson presented the analysis report of stakeholder's feedback on Curriculum. The BOS members noted the same and the action taken report is enclosed in Annexure II.

Agenda 1.10: Any other item with the approval of Chairperson.

- Suggested to reduce Employability skills credits from 4 to 2.
- Suggested to increase credits for Main Project.
- Suggested to increase the number of course which improvise the student employability skills.

Agenda 1.11: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of November 2017.

Agenda 1.12: Vote of Thanks

Mr. K.L. Kishore, BOS Chairperson presented the Vote of thanks.


BOS Chairperson

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Annexure-I

List of Courses Revised in the Academic Year 2017-18

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ME)	I	171HS1T01	English-I
2	B. Tech (ME)	I	171BS1T01	Mathematics-I
3	B. Tech (ME)	I	171HS1T02	Environmental Studies
4	B. Tech (ME)	I	171BS1T03	Engineering Chemistry
5	B. Tech (ME)	I	171BS1L01	Engineering Chemistry Lab
6	B. Tech (ME)	I	171ES1L01	Computer Programming Lab
7	B. Tech (ME)	II	171HS2T03	English-II
8	B. Tech (ME)	II	171BS2T06	Mathematics-III
9	B. Tech (ME)	II	171HS2L02	English Communication Skills Lab-II
10	M. Tech (TE)	II	172TE1E02	Refrigeration & Cryogenics
11	M. Tech (TE)	II	172TE2E06	Solar Energy Technology

K.L. K
BOS Chairperson

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Annexure II

Action Taken Report on Stakeholders Feedback in the Academic Year 2017-18

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	1.8	Better to introduce skill oriented courses so that student may get extra skill.	As suggested from the employer, value added courses will be initiated.
2	1.3	It is better to have electives in relation with the technological advancements.	Basics of cryogenics is included in the elective course Refrigeration & Air conditioning (VI Semester).
3		It is better to introduce 2D and 3D wireframe modelling using industry software's.	Special curves and conversion of orthographic to isometric projection is included in the course CAEDP.
4	1.9	Requested to modify the question paper pattern.	As per the discussion with the experts, the suggestions will be implemented.
5		Provide campus trainings on aptitude and reasoning.	Employability skill I, II, III & IV courses are included in AR 17.
6		It is better to introduce vibration subject in the curriculum to have knowledge on it and its effects.	The course Mechanical Vibrations is included in V semester as Professional Elective.
7	1.3	Students should have knowledge on sustainable design, life cycle cost and pollution prevention on environment.	Green Engineering Systems is included as an elective in VII semester
8	1.9	Collaboration and team work must be employed to students to have brain storm sessions on the research and industry ready during the group discussions and JIT during the placement.	Student division has been made as a group consisting of 5 - 6 members with seminars and GD's to enhance students ability towards research.

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9		Better the student get enough exposure to company and its implementations.	More industrial visits included.
10	1.8	It is better to reduce number of subjects in the final year so that student may concentrate on placement.	VIII semester subjects are decreased to 2 courses along with project.
11		Better to introduce the self-study courses.	MOOCS initiated into the curriculum.
12		Better to remove dress code from last semester.	Discussions made with principal and dean academics, necessary action will be prevailed.
13	1.9	Student participation is required for the project to be completed successfully.	As per suggestions, projects are encouraged for students and various industry visits will be planned.
14	1.3	Better to provide more electives.	As per the suggestions, more PE's and OE's will be introduced.
15	1.9	It is better to change the question paper pattern in the semester examination.	As suggested and discussion with experts, to overcome the deficiency new question paper will be formulated for the final semester examination.
16	1.8	Better to provide more technical sessions, webinars on advanced topics.	As suggested, industrial orientation sessions from industry experts and global engineers will be initiated.

K. Lakshmi
BOS Chairperson

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