



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

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Department of Mechanical Engineering

Date: 30-09-2021

Minutes of the VII meeting of BOS scheduled on 28-09-2021

The VII meeting of the BOS of ME was held virtually on 28-09-2021 at 9.30 AM through Microsoft Teams. Prof Bh. Vara Prasad, Chairperson presided over the meeting.

Agenda 7.1: Welcome address by Chair Person-BOS

Prof Bh. Vara Prasad, BOS Chairperson invited the distinguished members of BOS to the VII BOS Meeting.

Agenda 7.2: Discussion and ratification of the Vision and Mission of 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 7.3: Ratification of minutes of the previous Board of Studies meeting

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 10/10/2021.

Agenda 7.4: Discussion on proposed AR19 B.Tech Program – VI, VII & VIII semesters syllabus and ratification of the same.

The members of BOS suggested the following changes to the proposed AR 19 VI, VII and VIII Semester B.Tech:

- In the Course “Metal Cutting and Machine tools”- Suggested to remove topic “Jigs & Fixtures”
- In the Course “Design of Machine Members-II” - Suggested to add topics “Hydrostatic Bearing Design” in Unit-I, “Design of Power Screws” in Unit-III. Also advised to add “Machine Design Data Book” by V.Bhandari as one of the text books.

- In the Course “Robotics” (Professional Elective as well as Open Elective) - Suggested to replace the title of the topic “Motion Analysis” with “Mapping and Transforms” in Unit-III. Also suggested to replace the title of the topic “Transformations” with “Differential motion and Dynamics” in Unit-IV. Also, few references suggested such as “Robotics, controls, sensing, vision and intelligence by K.S.Fu, C.S.G.Lee, R.Gonzalez, TMH” and “Introduction to Robotics by S.K.Saha, TMH”
- In the Course “Mechatronics” - Suggested to add topic ‘Introduction to Electric Vehicles’ in Unit-I. Suggested to elaborate the topic “Control valves” in Unit-III. Also suggested to add the topic “Digital Communications” and Module “BMS & Body Control” in Unit-V.
- In the Course “Refrigeration & Air conditioning” - Suggested to add textbook “Refrigeration & Air conditioning by Arora and Domkundwar, Dhanpat Rai Co.”
- In the Course “Additive Manufacturing” - Suggested to add Case study in Unit-V.
- In the Course “Finite Element Methods”- Suggested to add a topic “Beams” in Unit-V under “Dynamic Analysis”. Also suggested to add Author name “Cook et al.” as 3rd Reference book.
- In the Course “Alternative Fuels” - Suggested to add “Biomass” topic in Unit – V.
- In the Course “Design for Manufacturing” - Suggested to add textbook “Assembly Automation and Product Design by Boothroyd, Taylor & Francis Publication.”
- In the Course “Lean Manufacturing” - Suggested to add “7 Pillars” in Unit-IV.
- In the Course “Heat Transfer Lab” - Suggested to add “Heat Transfer Data Book by C.P.Kothandaraman”. Also suggested to add “Heat Transfer Data book allowed” as a note in Heat Transfer Course also.
- In the Course “Power Plant Engineering” - Suggested to add topic “Power Plant Economics”.
- Suggested to replace the course “Design of Transmission Systems” (Professional Elective-V) with “Product Design and Development”.
- In the Course “Flexible Manufacturing Systems” - Suggested to add topics “Supply Chain & Logistics, 3P concepts”.
- In the Course “Manufacturing Methods in Precision Engineering ” - Suggested to add the topic “Precision Machine Elements, I.E, Guide Ways, Rolling

Elements” in Unit-III and a text book “Principles of Precision Engineering by H.Nakazawa by Oxford Science Publication.”

- In the Course “Optimization Techniques” - Suggested to condense all earlier 5 units into 3 units and advised to introduce non-traditional optimization techniques as 2 units. Also suggested to add “Genetic Algorithm or Fuzzy Concepts” in Unit-IV.

Agenda 7.5: Discussion on proposed AR20 B.Tech(ME) Program structures and ratification of the same.

Suggested to reduce the number of tracks in Professional Elective.

Agenda 7.6: Discussion on proposed AR20 B.Tech Program – III & IV semesters syllabus and ratification of the same.

The members of BOS suggested the following changes to the proposed AR 20 III & IV Semester B.Tech:

- In the Course “Thermodynamics” - Suggested to add “Steam Tables & Mollier Diagram by R.S.Khurmi & J.K.Gupta” as Textbook.
- In the Course “Fluid Mechanics and Hydraulic Machines Lab” - Suggested to add text book “Fluid Mechanics and Hydraulic Machines by R.K.Bansal”.
- In the Course “Metallurgy and Materials Science” - Suggested to add topic “Selection of Materials for Various Industrial Applications”.

Agenda 7.7: Discussion on proposed AR20 Honors and Minor Degree courses and ratification of the same.

- Suggested to include courses in minor which is not included as a course in other department syllabus.
- Suggested to create a pool of Subjects which is not in the Professional Electives to gain a Honor Degree

Agenda 7.8: Discussion on proposed AR20 Honors and Minor Degree courses syllabus and ratification of the same.

- Members of BOS ratified the syllabus of Honor degree -IV semester.

Agenda 7.9: Discussion on the value-added courses offered for students and ratification of the same.

- The BOS members approved the list of value-added courses offered to students.

Agenda 7.10: Discussion on the percentage of syllabus revision done in the AR19 B.Tech(ME) programme and ratification of the same.

- The BOS members approved the syllabus revisions done in AR20 B.Tech (ME) program based on the attainment and the feedback of the course exit survey.

Agenda 7.11: Discussion on Analysis of Results

- The BOS chairperson presented odd and even semester pass percentage for the A.Y.2020-2021. The BOS members noted the same and appreciated the faculty for obtaining 95.98% in VIII semester.

Agenda 7.12: Discussion on Analysis of Students Feedback & Action Taken Report

- BOS Chairperson expressed that the student feedback & action taken report process was initiated at end of each semester. In academic year 2020-2021 the average student feedback of the faculty for odd semester is 78.24% respectively.

Agenda 7.13: Any other item with the approval of Chairman.

- NIL

Agenda 7.14: Scheduling of next Board of Studies meeting.

- The next BOS meeting is tentatively scheduled in the month of April 2022.

Agenda 7.15: Vote of Thanks

Prof Bh. Vara Prasad, BOS Chairperson presented the Vote of thanks.


BOS Chairperson

Head of the Department
Department of Mechanical Engineering
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