

# Annamacharya Institute of Technology & Sciences

(AUTONOMOUS)

New Boyanapalli, Rajampet – 516126

## DEPARTMENT OF MECHANICAL ENGINEERING

### Minutes of 13<sup>th</sup> BOS Meeting held on 26.08.2021

- The 13<sup>th</sup> Board of Studies was held in the department of mechanical engineering on 26.08.2021 at 11:30 AM.
- Agenda for individual meeting of Board of studies.
  1. To approve R20 – ME – B. Tech – III, IV, V, VI, VII & VIII Semesters detailed syllabi.
  2. Any other item with the permission of the chair
- **Members Attended:**
  - **Chair Person: Dr. A. Hemantha Kumar**, Professor & Head, Dept. of Mechanical Engineering, AITS, Rajampet
  - **Academic Experts: Dr. G. Jaya Chandra Reddy**, Professor & Head, Mechanical Engineering Dept., Y.S.R Engineering College of Yogi Vemana University, Proddatur
  - **Academic Experts: Dr. N. Venkaiah**, Assoc. Professor of Mechanical Engineering, Dean of Students Affairs, Indian Institute of Technology Tirupati, Tirupati.
  - **University Nominee: Dr. M. Ravi Sankar**, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Tirupati, Tirupati.
  - **Industry Expert: Mr. P. Balasankar**, Automotive Engineer, Chennai.
  - **Internal Members:**
    - i. **Dr. P. V. Sanjeev Kumar**, Associate Professor, Dept. of Mechanical Engineering, AITS, Rajampet.
    - ii. **Dr. B. Venkatesh**, Associate Professor, Dept. of Mechanical Engineering, AITS, Rajampet.
    - iii. **Mr. G. Suresh Babu**, Assistant Professor, Dept. of Mechanical Engineering, AITS, Rajampet.

### As per Agenda the following discussions happened:

1. R20\_ME\_Course Structure clearly displayed and explained from Semester III to Semester VIII for all categories of professional core, professional elective, open elective and skill oriented courses.
2. As per APSCHE recommendation explained about incorporating 'five' 'Skill Courses' newly for 10 credits from Semester III to Semester VII.
  - a. Auto CAD & Refrigeration and Air Conditioning – ME Domain
  - b. Python Programming & Java Programming – Job Oriented CSE Domain
  - c. Professional Communication – Job Oriented
3. Received recommendations for ME – R20 regulations on below subjects:
  - i. Courses 'Theory of Machines' and 'Manufacturing Processes' from Semester III and Semester IV should be swapped for equal distribution of courses with respect to stream wise.
  - ii. Course title should be 'Theory of Machines' not 'Theory of Machinery'.

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- iii. Course – Mechanics of Solids from Semester III received modifications in the syllabus for Unit 2 and 3.
- iv. Course – Manufacturing Processes from Semester IV, modifications are suggested for unit titles 3, 4 & 5.
- v. Course – Recommended to have title as ‘Machine Drawing Lab’.
- vi. Course – Theory of Machines – course title modification suggestions are discussed and recommended to change in syllabus content for all 5 units, as this becomes a new subject by combining ‘kinematics of machinery’ and ‘dynamics of machinery’.
- vii. Course – Design of Machine Elements – I, discussions are made on the syllabus content and suggestions are made on Unit 1, 3 & 5.
- viii. Course – Machine Tools, course title modifications are suggested and syllabus content modifications are suggested on unit 1, 3 & 4.
- ix. Course – ‘Optimization Techniques through MATLAB’ is the course title and received to have title as ‘Optimization Techniques’ because MATLAB is one of the media for optimization, so title should be generic.
- x. Course - Design of Machine Elements – II, Suggestion received on syllabus content with unit 1, 2, 3 & 5.
- xi. Course - Design and Transmission Systems – suggested to change title as ‘Design of Transmission Systems’ and recommended to have changes in syllabus units 1, 3 & 5.
- xii. Course - Automobile Engineering – suggestions received on units 2 & 3 for incorporating electric vehicle power trains topic in transmission system.
- xiii. Course – Unconventional Machining Process – suggested changing course title as ‘Modern Machining Processes’.
- xiv. Course – Suggested to have only one course among ‘Rapid Prototyping’ and ‘Additive Manufacturing’ as per syllabus content.
- xv. Course – ‘Un Conventional Machining Process’ is suggested to include with modern machining methods and title can be modified as ‘Modern Machining Processes’.

### Minutes of Meeting / Action Taken:

1. Approved for incorporating five skilled courses, Auto CAD, Refrigeration and Air Conditioning, Python Programming, Java Programming and Professional Communication recommended by APSCHE.
2. As per recommendations received from BOS members and with incorporating them the ME-R20-Course Structure is approved for Semester III to Semester VIII.
3. As BOS members recommended, courses ‘Theory of Machines’ and ‘Manufacturing Processes’ from Semester III and Semester IV are swapped.
4. Course – Mechanics of Solids form Semester III all the modifications are reviewed, approved and incorporated for Unit 2 and 3.
5. Course – Manufacturing Processes from Semester IV, modifications suggested are approved and incorporated for unit titles 3, 4 & 5.
6. Course – title is approved and changed as ‘Machine Drawing Lab’.



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7. Course – ‘Theory of Machines’ course title is modified as recommended by BOS members and syllabus content too modified and incorporated as per suggestions on all units.
8. Course – Design of Machine Elements – I, as per suggestions received on Unit 1, 3 & 5 syllabus content is modified and approved.
9. Course – Machine Tools title is modified as ‘Machining Processes’ as recommended by BOS members and the content changes as recommended are incorporated in unit 1, 3 & 4.
10. Course – ‘Optimization Techniques through MATLAB’ is the course title modified as ‘Optimization Techniques’ and incorporated as course title.
11. Course - Design of Machine Elements – II, as per suggestions made on syllabus content with units 1, 2, 3 & 5 are incorporated and approved.
12. Course – ‘Design of Transmission System’ title is incorporated as suggested from title as ‘Design and Transmission System’ and the syllabus modification on Units 1, 3 & 5 are incorporated and approved.
13. Course – Automobile Engineering – suggestions are incorporated and approved.
14. Course – ‘Modern Machining Processes’ title is modified for course with title ‘Unconventional Machining Process’.
15. Course – ‘Additive Manufacturing’ is approved and incorporated in course structure.
16. Course – ‘Modern Machining Processes’ is modified from ‘Un Conventional Machining Process’ and incorporated in the course structure.

Encl:

1. Attendance of BOS Meeting
2. Google drive links of meeting videos

• <https://drive.google.com/drive/folders/1g37rcnjcVvMrCSC6qmoNIYZ2jk1Sh9sk?usp=sharing>

HOD  
Head of the Department  
Mechanical Engineering  
Annamacharya Institute of Technology & Sciences  
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