



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Tamaram, Makavarapalem, Visakhapatnam-531113

DEPARTMENT OF MECHANICAL ENGINEERING

DATE: 30-03-2024

**RECOMMENDATIONS/SUGGESTIONS OF THE TEACHER FOR CURRICULUM
DEVELOPMENT FOR THE YEAR 2023-24**

S. No	Subject Name	Recommendations/Suggestions for Curriculum Development
1	Operational Research	Latest optimization techniques suggested to be added in syllabus
2	Advanced Materials	Provide knowledge based industrial oriented sessions on assembly, joining and repair of high performance composite structures suggested to be added in syllabus
3	Heat Transfer	Develop numerical models to address relevant Heat transfer challenges in different sectors suggested to be added in syllabus
4	Machine tools Metallurgy & Materials science	Calibration methods: Artefact effect, Global methods, Parametric methods suggested to be added in syllabus
5	Strength of Materials	Lame's theorem should implement in practically suggested to added in syllabus
6	Robotics	Understand the construction of forward kinematics, Inverse kinematic and trajectory solutions for a multi degree of freedom Robots suggested to be added in syllabus
7	Kinematics of machinery	Suspension and compliances theoretical background and practical measuring schemes
8	Production Technology	Advanced casting techniques is suggested to be added in syllabus
9	Design of Machine MembersS	Design procedure of composite materials structures is suggested to be added in syllabus
10	Automobile Engineering	Primary development of advanced vehicles is suggested to be added in syllabus

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