

DESIGN OF MACHINE MEMBERS

V Semester: ME								
Course Code	Category	Hours / Week			Credits	Maximum Marks		
		L	T	P	C	CIA	SEE	Total
AME012	Core	3	1	-	4	30	70	100
Contact Classes: 45		Tutorial Classes: 15		Practical Classes: Nil			Total Classes: 60	
<p>COURSE OBJECTIVES: The course should enable the students to:</p> <ol style="list-style-type: none"> I. Develop an ability to apply knowledge of mathematics, science, and engineering Outcomes II. Knowledge of various design standards, safety, reliability, importance of dimensional parameters and manufacturing aspects in mechanical design. III. Understanding the concepts of stresses, theories of failure and material science to analyze, design and/or select commonly used machine components. IV. To develop an ability to identify, formulate, and solve various machine members problems <p>COURSE OUTCOMES (COs):</p> <p>CO 1: Understanding design and analysis of power transmitting elements, selection of suitable materials and manufacturing processes.</p> <p>CO 2: Analyzing the forces acting on various joints and their design.</p> <p>CO 3: To develop an ability to identify, formulate, and solve various machine members problems</p> <p>CO 4: Ability to design and analyze shafts with different geometrical features under various loading conditions.</p> <p>CO 5: Ability to analyze and design of different Springs for required application.</p> <p>COURSE LEARNING OUTCOMES (CLOs):</p> <ol style="list-style-type: none"> 1. Understand various design variables and factors in the study of machine elements. 2. Explain the steps involved in design process, BIS Codes of Steels. 3. Understand the various Theories of failure, Design for Strength and rigidity. 4. Understand theories of failures, stress concentration and fluctuating stresses. 5. Explain estimation of endurance strength. 6. Ability to design lap and butt joints in riveted joints. 7. Explain design of welded joints, effects various stresses. 8. Explain the design procedure of various joints. 9. Understand the applications and comparison of various joints. 10. Explain bolts of uniform strength. 11. Understand various stresses in keys. 12. Ability to design procedure for keys. 13. Ability to design spigot and socket joint. 14. Understand Jib and Cotter joint and design procedure. 15. Ability to design knuckle joints. 16. Explain the design of shafts for complex loads. 17. Explain the design procedures of various shaft couplings. 18. Ability to design shafts for various types of loading. 19. Compare various shaft couplings and applications. 20. Ability to Design of various shaft couplings. 21. Understand of the basic features of springs. 								

Design Of Machine Members

Raffaella Di Napoli



Design Of Machine Members:

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