

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			
COURSE OBJECTIVES: The course should enable the students to: <ol style="list-style-type: none">I. Develop an ability to apply knowledge of mathematics, science, and engineering OutcomesII. 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 COURSE OUTCOMES (COs): CO 1: Understanding design and analysis of power transmitting elements, selection of suitable materials and manufacturing processes. CO 2: Analyzing the forces acting on various joints and their design. CO 3: To develop an ability to identify, formulate, and solve various machine members problems CO 4: Ability to design and analyze shafts with different geometrical features under various loading conditions. CO 5: Ability to analyze and design of different Springs for required application. COURSE LEARNING OUTCOMES (CLOs): <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

Richard Bailey



Design Of Machine Members:

Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Design Of Machine Members**

In a global inundated with screens and the cacophony of quick connection, the profound energy and mental resonance of verbal artistry usually disappear in to obscurity, eclipsed by the continuous assault of sound and distractions. However, located within the lyrical pages of **Design Of Machine Members**, a captivating perform of fictional elegance that impulses with natural emotions, lies an unique trip waiting to be embarked upon. Written by a virtuoso wordsmith, that exciting opus courses visitors on an emotional odyssey, gently revealing the latent possible and profound affect embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect its captivating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Design Of Machine Members Introduction

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