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Mechanical Design/Machine Element Design /Design of Machinery

Course Syllabus:

***Introduction To Mechanical Design**

***Power Screw;**

Introduction, Terminology and Standard / Force and Torque / Power and Efficiency / Self - Locking Screw

***Fasteners;**

Types of threaded Fastener / Load Analysis of Bolts and Nuts / Design Bolts and Nut for Different Types of Loading / Gasketed Joints / Riveted Fasteners.

***Rolling-Element Bearings;**

Introduction / Terminology, Classification, and Designation / Bearing Life/ Selection of Rolling Element Bearings.

***Belts;**

Introduction, Terminology, Classification, and Designation / Belts: Flat, Round, V-, and Toothed Belts / Design of Flat Belt and V-Belt Pulley.

***Shafts and Associated Parts;**

Introduction / Design of Straight Shafts / Shaft Failures / Keys, Pins, and Spline / Couplings and Universal Joints.

***Gears;**

Types of gear/ Gear Trains / Transmitted Load.

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