

MVSR Engineering College, Nadergul.
Department of Mechanical Engineering
COURSE OUTCOMES

Class: B.E.III Year II Sem (Mech. Engg.)

Name of the Course: **MACHINE DESIGN**

Course Code: ME 351

At the end of the course student is able to

S.No.	Course outcome	PO's mapped
ME351.1	Classify different types of springs and their applications, and how to analyze the springs for static and fluctuating loads according to working environment.	PO1, PO2, PO3, PO7
ME351.2	Distinguish different types of gears and materials used for making gears, and how to design spur, helical, bevel and worm gears under strength and wear considerations.	PO1, PO2, PO3, PO4, PO5, PO6
ME351.3	Know different types of tooth failures with their remedial measures and estimate complete design of suitable gear drive based on the application.	PO1, PO2, PO3, PO5, PO6, PS01
ME351.4	Understand the principle of hydrostatic lubrication and hydrodynamic lubrication, and estimate the load carrying capacity of bearings for axial and thrust loads, also correlate load –life relationship for static and cyclic loads.	PO1, PO2, PO3, PO4, PO7
ME351.5	List out the various components and materials used in IC Engine. Also, various types of pistons, crank shafts and flywheels and how to design those components under mechanical and thermal loads.	PO1, PO2, PO3, PO4, PO7, PS02
ME351.6	Compare and contrast curvature bending and straight bending. And, know the values of radius of curvature of neutral axis and centroidal axis for various commonly used crosssections in curved beams. Also, understand design procedure for the crane hooks, C-clamp and machine frames.	PO1, PO2 PO3,