

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

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

Name of the Course: Design of Machine Elements

Course Code: ME 303

At the end of the course student is able to

CO	Outcome	POs	PSOs
C351.1	<b>Classify</b> different types of springs and their applications, and to <b>design</b> the springs for static and fluctuating loads according to working environment.	1,2,3 ,4,5, 12	2
C351.2	<b>Distinguish</b> different types of gears and to design spur, helical, bevel and worm gears under strength and wear considerations.	1,2,3 ,5	-
C351.3	Identify different types of tooth failures with their remedial measures and design spur and helical gears under dynamic considerations for suitable applications.	1,2,3 ,4,5	-
C351.4	<b>Understand</b> the principles of hydrostatic and hydrodynamic lubrication, and <b>estimate</b> the load carrying capacity of bearings for axial and thrust loads, subjected to static and cyclic loads.	1,2,3 ,4,7	1,2
C351.5	<b>Practice</b> design of IC engine components like pistons, crank shafts, connecting rod and flywheels subjected to both mechanical and thermal loads.	1,2,3 ,4,7, 12	1,2
C351.6	<b>Differentiate</b> between curvature and straight beams and apply the design principles for the crane hooks, C-clamp and machine frames.	1,2,3 ,5	-