



Techno India NJR Institute of Technology

Academic Administration of Techno NJR Institute

Syllabus Deployment

Name of Faculty : Mrs. Nisha Patel Subject Code: 6ME4-23
Subject : Machine Design Practice – II
Department : Mechanical Engineering Sem: VI
Total No. of Labs Planned: 9

COURSE OUTCOMES:

At the end of this course students will be able to:

- CO1: Design mechanical components under fatigue loading.
- CO2: Design helical compression, tension and torsional springs.
- CO3: Design of bolts subjected to variable stresses.
- CO4: Design of spur, bevel and helical gears.

S. No.	SESSIONAL WORK
1	Fatigue loading.
2	Helical compression, tension and torsional springs design.
3	Curved Beams.
4	Preloaded bolts and bolts subjected to variable stresses.
5	Belt, Rope and Chain drive system.
6	Gear Design.
7	Sliding contact bearing design
8	Anti-friction bearing selection
9	Design of assembly (mechanical systems) using various BIS codes/data • book

TEXT/REFERENCE BOOKS

1. MACHINE DESIGN BY V B BHANDARI TMH PUBLICATION
2. MECHANICAL ENGINEERING DESIGN BY SHIGLEY, JOSEPH E, TMH PUB.