



Techno India NJR Institute of Technology

Academic Administration of Techno NJR Institute

Syllabus Deployment

Name of Faculty : Mrs. Nisha Patel Subject Code: 3ME4-23
Subject : Basic Mechanical Engineering Lab
Department : Mechanical Engineering SEM: III
Total No. of Lectures Planned: 11

COURSE OUTCOMES:

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

- CO1: Do hands on assembling and disassembling of SI & CI Engine.
- CO2: Do hands on assembling and disassembling of bicycle & sewing machine.
- CO3: Understand working principles & classification of boilers and their accessories.
- CO4: Understand working principles & classification of pumps.

Lab No.	Topic
1	Introduction to BME LAB
2	videos and computer simulations and observational study of air-conditioners
3	Assembly and disassembly of Compressor
4	Assembly and disassembly of IC Engine
5	Assembly and disassembly of machine-tools
6	Assembly and disassembly of bicycle
7	Assembly and disassembly of sewing machine
8	Videos and computer simulations and observational study of Boiler
9	Videos and computer simulations and observational study of Pump
10	Videos and computer simulations and observational study of Turbine
11	INDUSTRIAL VISIT

TEXT/REFERENCE BOOKS

1. ELEMENTS OF MECHANICAL ENGINEERING – M. L. MATHUR, F. S. MEHTA AND R. P. TIWARI, JAIN BROTHERS, NEW DELHI.