



GURGAON INSTITUTE OF TECHNOLOGY & MANAGEMENT

COURSE PLAN

Name o Teacher: VINOD KUMAR	
Department: Mechanical	Session: 2017-18
Branch/Semester: ME/ 1 st	Subject Name & Code: BME(ME: 101-F)

Books Referred:

Text Books :

1. BME – D.S KUMAR,

Reference Books :

1. BME – D.S KUMAR .
2. Teacher's notes, Blog and sites.

Lecture	Topics to be Covered
1.	Introduction of power transmission.
2.	Power transmission devices/ drives. Classification of belt and chain drives.
3.	Types of different gears and their functional difference.
4.	Classification of clutches, their adoptions and various function as per need.
5.	Introduction of stress, strain and types, poisson's ratio.
6.	Stresses and strains in simple and compound bars under axial load.
7.	Stresses and strains in simple and compound bars under flexure and torsional load.
8.	Stress and strain Diagram, Hook's law. Relationship between elastic-constants.
9.	Introduction to manufacturing system.
10.	Fundamentals of NC & CNC.
11.	Advantages and classification of NC and CNC and comparision.
12.	Introduction on thermodynamics.
13.	Concept of Internal Energy, Entropy and Enthalpy.
14.	Introduction of Steam, its properties and steam generator.
15.	Formation of steam at constant pressure, thermodynamic properties of steam.
16.	Use of steam tables, Measuring of dryness fraction by calorimeters as per syllabus.

