ASSIGNEMENT

DESIGN OF MACHINE ELEMENT (ME5003)

UNIT-1

Q.1 What is engineering design? What are the steps evolved in design?

Q.2 Explain the process of design and role of designer in designing machine?

Q.3 Explain preliminary design, detail design?

Q.4 Describe design for quality and cost?

Q.5 What is factor of safety and explain importance of this in design?

UNIT-2

Q.1 Define shaft ? What are the types shafts used in industries?

Q.2 What are the loads and stresses acting on the running shaft?

Q.3 Explain the design procedure of shaft under twisting, bending?

Q.4 Design of shaft under rigidity?

Q.5 Define keys and coupling with their types and design any one Coupling.

UNIT-3

- Q.1 Write the method of power transmission?
- Q.2 Explain design of chain drive?

Q.3 Discuss design of beit and pulley?

Q.4 What are rope drives?

Q.5 Explain design of rope drives?

UNIT-4

Q.1 What is band and block brake?

Q.2 What is internal expanding brakes?

Q.3 What is disc brake?

Q.4 What are centrifugal cluthes?

Q.5 What are the materials for friction surface?

UNIT-5

Q.1 Explain lewis equation?

Q.2 What are the application of bevel gears?

Q.3 What are the modes failure of gear?

Q.4 Explain design of straight tooth spur gear>

Q.5 What is form factor?