

Subject: Mechanical Measurement and Control [MMC]

Assignment No: 04

- Q.1] Sketch the functional block diagram of generalised measurement system and describe the function of each element. Give suitable example indicating clearly all the functional element.
- Q.2] Write a short note on...
- a) Hysteresis b) Drift c) Threshold d) Dead zone.
- Q.3] Explain various types of errors encountered in Measurements.
- Q.4] Differentiate between Reproducibility and Repeatability of instruments.

Assignment No: 05

- Q.1] Explain with neat sketch working principle of Nozzle Flapper Transducer.
- Q.2] Explain elastic pressure transducer.
- Q.3] why temperature compensation is necessary in strain measurement? Also explain various methods used for temperature compensation.
- Q.4] Write a short note on piezoelectric accelerometer.

Assignment No: 06

- Q.1] Explain with neat sketch any one high pressure measurement method.
- Q.2] Explain working principle of Hot wire Anemometer.
- Q.3] Explain Working principle of the thermocouple.
- Q.4] Explain any one temperature measuring device for low and High temperature measurement.