

ME2304 ENGINEERING METROLOGY AND MEASUREMENTS

Metrology is the science of measurement. Metrology includes all theoretical and practical aspects of measurement. Metrology is defined as "the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology."

OBJECTIVES

- To understand the basic principles of measurements
- To learn the various linear and angular measuring equipments, their principle of operation and applications.
- To learn about various methods of measuring Mechanical parameters
- To gain some fundamental knowledge about metrology and measurements and Definition of internationally accepted unit of measurement.
- Realisation of the units of measurement in practice

TEXT BOOKS:

1. Jain R.K., "Engineering Metrology", Khanna Publishers, 2005
2. Alan S. Morris, "The Essence of Measurement", Prentice Hall of India, 1997

REFERENCES

1. Gupta S.C, "Engineering Metrology", Dhanpat rai Publications, 2005
2. Jayal A.K, "Instrumentation and Mechanical Measurements", Galgotia Publications 2000
3. Beckwith, Marangoni, Lienhard, "Mechanical Measurements", Pearson Education, 2006.
4. Donald Deckman, "Industrial Instrumentation", Wiley Eastern, 1985.

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