

ECU 401 Electronic Instrumentation
Monsoon 2012

Instructor: Dr. Praveen Sankaran, email: psankaran@nitc.ac.in, Office hours: open, ECE Block II, RM 301.

Textbook:

1. Joseph Carr, "Elements of Electronic Instrumentation and Measurement", 3rd edition, Pearson Education.
2. Helfrick, Cooper, "Modern Electronic Instrumentation and Measurement Techniques", PHI.
3. Henry W.Ott, "Noise Reduction Techniques in Electronic Systems", 2nd Ed; John Wiley & Sons, 1988.

Grading Policy:

Exam 1	25%
Exam 2	25%
Exam 3	50%

Letter Grading: Absolute

Topics for first test: Chapters 1 - 5.

1. Averages, dB scales, Gain
2. Error, validity, accuracy, precision etc.
3. dc and ac meters, measurement of current, voltage and power.
4. Bridge circuits and applications.
5. Potentiometers.