Module Title:	Computerised Measurement Systems
Academic year:	2009 2010
Credit Value:	7
Pre- requisites:	None
Assessment:	End of semester exams (50%) Laboratory reports and practical exam (35%) Mid semester continuous assessment (15%).
Aims	This module aims to provide the student with: A knowledge of the vocabulary used in describing signal characteristics. A knowledge and appreciation of different sensor types and sensor applications. Practical skills in computer interfacing and connecting sensors to a PC. A knowledge of several digital communication protocols used in industry.
Module Content	Elements of a measurement system Computerised Measurement Systems Sensors/ transducers Data Communications
Intended Learning Outcomes: (September 2007)	The student will be able to: Describe the structure and operation of components for measurement of flow, level, temperature, pressure, and density. Compare the techniques for measuring flow, level, temperature, pressure, density, and light intensity and be able to evaluate the advantages and disadvantages of each technique. Explain the installation, maintenance and calibration of these components. Characterize and construct simple computerized measurement systems. Summarize the main types of communication systems used for industrial and scientific instrumentation.
