

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E - Instrumentation and Control Engineering

(Applied Instrumentation)

Semester: II

Subject Name: APPLIED TRANSDUCERS

Sr.No	Course content
1.	Signal Conditioning for Resistive Sensors
2.	Signal Conditioning for reactance Variation Sensors
3.	Signal Conditioning for Self Generating Sensors
4.	Digital and Intelligent Sensors
5.	Sensors based on semiconductor junctions and MOSFET, Charge coupled and CMOS Image Sensors, Fiber- Optic Sensors

Note:

Course Prerequisite: - Sensor Based Measurement Systems, Resistive Sensors, Reactance Variation and Electromagnetic Sensors, Self Generating Sensors

The Practical and Term work will be based on the topics covered in the syllabus.

Reference Books:

1. Ramon Pallas-Areny and John G. Webster, Sensors and Signal Conditioning, John Wiley & Sons