

Course Number and Name												
BEE6L2 & Measurement and Instrumentation Laboratory												
Credits and Contact Hours												
2 & 45												
Course Coordinator's Name												
Mr.Vijayaragavan												
Text Books and References												
Text Books: Lab Manual												
Course Description												
To acquire skills on using different measuring devices and mathematical modeling of machines and use of control system components.												
Prerequisites						Co-requisites						
Nil						Measurement and Instrumentation						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: To Understand the operation of DC and AC bridges CO2: To Calibrate the different types of meters and special type of instruments												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	L
CO1	H	H	L	L	H	M	M	L	L	L	L	L
CO2	H	H	L	L	M	M	M	L	L	L	L	L

List of Topics Covered

LIST OF EXPERIMENT:

1. Study of temperature measurement Transducer (thermocouple).
2. Study of displacement and pressure transducer (LVDT).
3. AC Bridges.
4. DC bridges .
5. Instrumentation amplifiers.
6. Linerization using microprocessors.
7. A/D and D/A converters .
8. Hysteresis loss measure using CRO.
9. Torque and angle measurement.
- 10 .Calibration of single phase energy meter.
11. Calibration of three phase energy meter.
12. Measurement of three phase power and power factor

