Department of Electrical and Electronics Engineering

Ability Enhancement Course
Scilab / MATLAB for Electrical and Electronic Measurements (BEEL456B)

Cycle of Experiments

Cycle-1

1. Design and Analysis of measurement of Resistance using Wheatstone and Kelvins double bridge.
2. Design and Analysis of measurement of Capacitance using Schering and De-Sauty's Bridges.
3. Design and Analysis of measurement of Inductance using Maxwells and Anderson Bridges.
4. Design and Analysis of measurement of Frequency using Wien's Bridge.
5. Design and Analysis of measurement of Real Power, Reactive and Power Factor in Three Phase Circuits.
6. Design and Analysis of measurement of Energy in Three Phase Circuits.

Cycle-2

1. Design and Analysis of measurement of Flux and Flux density.
2. Testing and Analysis of Current Transformer using Silsbees Deflection Method.
3. Testing and Analysis of Voltage Transformer using Silsbees Deflection Method.
4. Design and Analysis of True RMS Reading Volt Meters.
5. Design and Analysis of Integrating and Successive approximation type Digital Volt Meters.
6. Design and Analysis of Q Meter.