

Faculty of Engineering & Technology

Electrical Circuits 1

Information :				
Course Code : EED201	Level	: Undergraduate	Course Hours :	4.00- Hours
Department : Biomedical Engineering				
Description :				
Basic electrical quantities, Ohmos Law, Kirchhoffos Laws, Resistance and source combinations, Voltage and current division, Ë Áransformation. Techniques of solving DC electric circuits: nodal and mesh analysis, source transformation. Circuit theorems: superposition, Thevenin, Norton and Maximum power transfer. AC sinusoidal sources, Time domain and phasor representation, Inductance and capacitance: Voltage and current relationships, Impedance and admittance, Voltages and currents phasor diagrams, Techniques of solving AC electric circuits: Nodal analysis, Mesh analysis, and source transformation. Theorems: superposition, Thevenin, and Norton. Steady state power analysis.				