

Faculty of Engineering & Technology

Electrical Circuits 1

Information :					
Course Code : EED201	Level	:	Undergraduate	Course Hours :	4.00- Hours
Department : Communication and Computer Engineering					
Description :					
Basic electrical quantities, Ohmo Law, Kirchhoffo 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: superpo	JSITION, I NEVEN	in, an	iu Norton. Steady s	late power	