Faculty of Engineering & Technology

Electrical Circuits 1

Information :

Course Code :	EED201	**Level :**	Undergraduate	**Course Hours :**	4.00- Hours

Department : Electrical Power Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Moneer Mohamed Ali Abu-Elnaga	2
Associate Professor	Waleed Eid Abd Elrahman Alhanafy	1
Lecturer	Mohamed Rizk Mohamed Elsayed Hamouda	2
Assistant Lecturer	Rania Abdelrashid Ahmed Turky	
Assistant Lecturer	Ahmed Moreab Hussien Mohamed	
Assistant Lecturer	Ahmed Moreab Hussien Mohamed	
Assistant Lecturer	Ahmed Moreab Hussien Mohamed	
Assistant Lecturer	SHEROUK SOBHI ABDELSALAM FOUDA	

Description :

Basic electrical quantities, Ohmõs Law, Kirchhoffõs Laws, Resistance and source combinations, Voltage and current division, Y-delta transformation. 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.