

Faculty of Engineering & Technology

Electrical Circuits 1

| Information : | | | | | |
|--|------------------|--------|---------------------|----------------|-------------|
| Course Code : EED201 | Level | : | Undergraduate | Course Hours : | 4.00- Hours |
| Department : Communication and Computer Engineering | | | | | |
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| 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 | |