

## EEE 101/EEE 101W BASIC ELECTRICAL AND ELECTRONIC CIRCUITS

| Contents  | Reference   | Comment   |
|---|---|---|
| Voltage, Current, Power, Energy, Dependent and Independent Sources, Ohm's Law, Series/Parallel Circuits, Voltage and Current Division, KVL, KCL, Mesh analysis, Nodal Analysis, Thevenin's Theorem, Norton's Theorem, Maximum Power Transfer Theorem. | <b>Chapter: 4-Chapter-9</b><br><br>Introductory Circuit Analysis–<br>Robert L. Boylestad  | Numerical Problems related to dependent sources and start-delta conversion are not required.  |
| Sinusoidal Wave form  | <b>Chapter: 13</b><br>Introductory Circuit Analysis–<br>Robert L. Boylestad   |   |
| Diodes  | <b>Chapter: 1</b><br>(Articles: 1.6,1.7,1.9)<br><br><b>Chapter:2</b><br>(Articles:2.1-2.9)<br><br>Electronic Devices and Circuit Theory–Robert L. Boylestad and Louis Nashelsky         | Articles 1.1-1.5 are basic discussions about n-type and p-type materials, as well as donors and acceptors. Go through those if you are not clear on the concepts.<br><br>Practice all the examples and exercises related to the articles mentioned. |
| Logic Gates and Logic Circuits,   | <b>Chapter:3</b><br><b>Chapter: 4</b><br>(Articles:4.1-4.4, 4.7 )<br><b>Chapter: 5</b><br>(Articles: 5.1-5.4,5.10)<br><br>Digital Principles and Logic Design<br>By: A. Saha & N. Manna |   |

