Industrial Electronics



Lab Contents

Department of Industrial Engineering,

University of Engineering and Technology Taxila

**List of Lab Experiments**

**University of Engineering and Technology, Taxila**

Department of Industrial Engineering

Industrial Electronics (EE-301)

4th Semester Session 2K13

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| **Sr. No.** | **Lab Descriptions** |
| 1 | TO STUDY LAB EQUIPMENT. |
| 2 | TO VERIFY OHM’S LAW IN SERIES AND PARALLEL RESISTIVE NETWORK. |
| 3 | TO VERIFY KIRCHHOFF’S CURRENT LAW (KCL) AND KIRCHHOFF’S VOLTAGE LAW (KVL). |
| 4 | VERIFY NODE AND MESH ANALYSIS. |
| 5 | TO VERIFY POWER SUPPLIED IS EQUAL TO POWER DISSIPATED IN RESISTIVE NETWORK. |
| 6 | TO VERIFY THEVENIN’S THEORY FOR RESISTIVE NETWORK. |
| 7 | TO VERIFY NORTON’S THEOREM FOR RESISTIVE NETWORK. |
| 8 | TO VERIFY MAXIMUM POWER TRANSFER THEOREM FOR RESISTIVE NETWORK. |
| 9 | TO VERIFY SUPERPOSITION THEOREM FOR RESISTIVE NETWORK. |
| 10 | TO VERIFY RECIPROCITY THEOREM RESISTIVE NETWORKS. |
| 11 | TO STUDY THE BEHAVIOR OF RC CIRCUIT |
| 12 | TO STUDY THE BEHAVIOR OF RC CIRCUIT USING OSCILOSCOPE. |
| 13 | INTRODUCTION TO PSPICE. |
| 14 | RESPONSE OF RC AND RL CICUITS USING PSPICE. |