***In the name of Allah, Most Gracious, Most Merciful.***

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**

**Electrical Engineering Department**

**EE204 LAB-152 Syllabus**

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| **Week** | **Experiments** |
| 1.17 Jan. | No Lab |
| 2.24 Jan. | **Exp. 1:** Lab safety rules and Introduction to Multisim |
| 3.31 Jan. | **Exp. 2:** Resistors and Ohm’s Law |
| 4.7 Feb. | **Exp. 3:** Kirchhoff’s Laws |
| 5.  14 Feb. | No Lab |
| 6.  21 Feb. | **Exp. 4:** Current & Voltage Divider |
| 7.  28 Feb. | **Exp. 5:** Superposition, Thevinin & Norton Theorems |
| 8.  6 Mar. | **Exp. 6:** Thevinin / Norton Theorems and Maximum Power Transfer |
| Mid Term Break | |
| 9.  20 Mar. | **Exp. 7:** The Oscilloscope and Function Generator |
| 10.  27 Mar. | Experimental Test |
| 11  3 Apr. | No Lab |
| 12  10 Apr. | **Exp. 8:** Frequency Domain Analysis |
| 13  17 Apr. | **Exp. 9:** Max. Power Transfer |
| 14  24 Apr. | **Exp. 10:** Average and RMS Values |
| 15  1 May. | Final Lab |

## **Grade Distribution:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Lab Reports | Prelab Reports | Quizzes | Experimental Test | Final Lab | Total |
| 4 | 2 | 3 | 3 | 8 | 20 |