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| Course Number and Name | | | | | | | | | | | | |
| BEE3L5&Electron Devices Laboratory | | | | | | | | | | | | |
| Credits and Contact Hours | | | | | | | | | | | | |
| 2 & 45 | | | | | | | | | | | | |
| Course Coordinator's Name | | | | | | | | | | | | |
| Mr.Vijayaragavan | | | | | | | | | | | | |
| Text Books and References | | | | | | | | | | | | |
| Text Books: | | | | | | | | | | | | |
| 1. DEPARTMENT LABORATORY MANUAL | | | | | | | | | | | | |
| Course Description | | | | | | | | | | | | |
| This laboratory course will give a thorough knowledge about the basics of circuit analysis. | | | | | | | | | | | | |
| Prerequisites | | | | | | Co-requisites | | | | | | |
| Nil | | | | | | Electron Devices | | | | | | |
| required, elective, or selected elective (as per Table 5-1) | | | | | | | | | | | | |
| Required | | | | | | | | | | | | |
| Course Outcomes (COs) | | | | | | | | | | | | |
| CO1: To provide practical experience with electrical circuits and verifying circuit theorems. CO2: To enable the students to understand the behavior of semiconductor device based on experimentation | | | | | | | | | | | | |
| Student Outcomes (SOs) from Criterion 3 covered by this Course | | | | | | | | | | | | |
| COs/SOs | a | b | c | d | e | f | g | h | i | j | k | l |
| CO1 | H | H | L | L | H | M | M | L | L | L | L | L |
| CO2 | H | H | L | L | M | M | M | L | L | L | L | L |
| List of Topics Covered | | | | | | | | | | | | |
| I LIST OF EXPERIMENTS FOR ELECTRICAL ENGINEERING LAB | | | | | | | | | | | | |
| <ol style="list-style-type: none"> 1. Vérification of superposition theorem 2. Vérification of reciprocitytheorem 3. Verification of the Thevinin's and Norton's theorem 4. Verification of Maximum power transfer theorem 5. Power Measurement by three Ammeter and three voltmeter method 6. Power measurement by two wattmeter method 7. Characteristics of Semiconductor diode and Zener diode 8. Characteristics of a NPN Transistor under common emitter , common collector and common base configurations 9. Characteristics of JFET(Draw the equivalent circuit) 10. Characteristics of UJT and generation of saw tooth waveforms 11. Study of CRO 12. Phase Angle Measurement using CRO | | | | | | | | | | | | |