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| **Course Code** | | **Course Name** | **L-T-P - Credits** |
| **EE 256** | | **MEASUREMENT & INSTRUMENTATION LAB** | **0-1-2 : 2** |
| **Prerequisite: NIL Corequisite: Measurement & Instrumentation** | | | |
| **Course Objective:**  To provide practical knowledge for calibrating different measuring instruments to measure various parameters. As well, students will be able to study the working of various AC bridges for measuring capacitance and operaintg frequency. | | | |
| **Syllabus (List of Experiments)** | | | |
| 1. | Calibration of A.C. energy meter (a) direct loading, (b) Phantom loading. | | |
| 2. | Set up for measurement of power in 3-phase circuit. | | |
| 3. | Set up for calibration of AC single phase energy meter. | | |
| 4. | Set up for measurement of power using instrument transformer. | | |
| 5. | Set up for calibration of Dynamometer type wattmeter using potentiometer. | | |
| 6. | Set up for calibration of Moving Iron type ammeter and voltmeter using potentiometer. | | |
| 7. | Mesurement of Capacitance using Schering Bridge. | | |
| 8. | Mesurement of Frequency by Wien Bridge. | | |
| **Supplementary Readings:**   1. A. K. Sawhney, “A course in Electrical & Electronic Measurements & Instruments”, Dhanpat Rai and Co. Pvt. Ltd., 2015. 2. Stanley Wolf, and Richard FM Smith, “Student reference manual for electronic instrumentation laboratories” Pearson/Prentice Hall, 2004. | | | |