**COURSE CODE : EE1C02**

**COURSE TITLE** : **BASIC ELECTRICAL ENGINEERING LABORATORY**

**UNIVERSITY : DIBRUGARH UNIVERSITY**

**SEMESTER : FIRST SEMISTER**

**CREDIT : 1**

**L:T:P : 0:0:2**

**End sem. Examination for this course will carry 50 marks**

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| Experiments | List of experiments |
| 1 | To measure the armature and field resistance of a DC machine. |
| 2 | To calibrate a test (moving iron) ammeter and a (dynamometer) Wattmeter with respect to standard (DC PMMC) ammeter and voltmeters. |
| 3 | Verification of circuit theorems – Thevenin’s and superposition theorems (with DC sources only). |
| 4 | Measurement of current, voltage and power in R-L-C series circuit exited by single phase) AC supply. |
| 5 | Open circuit and short circuit tests on a single phase transformer. |
| 6 | Connection and starting of a three phase induction motor using direct on line (DOL) or star – delta starter. |
| 7 | Connection and measurement of power consumption of a fluorescent lamp and voltage – current characteristics of incandescent lamps. |
| 8 | Determination of open circuit characteristics (OCC) or a DC generator. |
| 9 | Two wattmeter method of measuring power in three phase circuit (resistive load only) |