**LAB SCHEDULE**

**Name of the dept. : ECE class : II – I , ECE-B**

**Lab name : N&ET Lab year : 2017-18**

**LIST OF EXPERIMENTS**

1. Serial and Parallel Resonance – Timing, Resonant frequency, Bandwidth and Qfactor determination for RLC network.
2. Time response of first order RC/RL network for periodic non-sinusoidal inputs – time constant and steady state error determination.
3. Two port network parameters Z-Y Parameters
4. Verification of Superposition and Reciprocity theorems.
5. Verification of Maximum Power transfer theorem.
6. Verification of Thevenin’s and Norton’s theorems.
7. Magnetization characteristics of D.C. Shunt generator. Determination of critical field resistance & critical speed.
8. Swinburne’s Test on DC shunt machine (Predetermination of efficiency of a given DC Shunt machine working as motor and generator).
9. Brake test on DC shunt motor. Determination of performance characteristics.
10. OC & SC tests on Single-phase transformer (Predetermination of efficiency and regulation at given power factors and determination of equivalent circuit).
11. Brake test on 3-phase Induction motor (performance characteristics).
12. Regulation of alternator by synchronous impedance method.

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| S.No | Date & Session | Ex.1 | Ex.2 | Ex.3 | Ex.4 | Ex.5 | Ex.6 | Ex.7 | Ex.8 | Ex.9 | Ex.10 | Ex.11 | Ex.12 |
| 1 | 01/07/17 | B1,B2 | B3,B4 | B5,B6 | B7,B8 | B9,B10 | B11,B12 |  |  |  |  |  |  |
| 2 | 04/07/17 | B13,B14 | B15,B16 | B17,B18 | B19,B20 | B21,B22 | B23,B24 |  |  |  |  |  |  |
| 3 | 08/07/17 | B3,B4 | B5,B6 | B7,B8 | B9,B10 | B11,B12 | B1,B2 |  |  |  |  |  |  |
| 4 | 11/07/17 | B15,B16 | B17,B18 | B19,B20 | B21,B22 | B23,B24 | B13,B14 |  |  |  |  |  |  |
| 5 | 15/07/17 | B5,B6 | B7,B8 | B9,B10 | B11,B12 | B1,B2 | B3,B4 |  |  |  |  |  |  |
| 6 | 18/07/17 | B17,B18 | B19,B20 | B21,B22 | B23,B24 | B13,B14 | B15,B16 |  |  |  |  |  |  |
| 7 | 29/07/17 | B7,B8 | B9,B10 | B11,B12 | B1,B2 | B3,B4 | B5,B6 |  |  |  |  |  |  |
| 8 | 25/07/17 | B19,B20 | B21,B22 | B23,B24 | B13,B14 | B15,B16 | B17,B18 |  |  |  |  |  |  |
| 9 | 05/08/17 | B9,B10 | B11,B12 | B1,B2 | B3,B4 | B5,B6 | B7,B8 |  |  |  |  |  |  |
| 10 | 01/08/17 | B21,B22 | B23,B24 | B13,B14 | B15,B16 | B17,B18 | B19,B20 |  |  |  |  |  |  |
| 11 | 19/08/17 | B11,B12 | B1,B2 | B3,B4 | B5,B6 | B7,B8 | B9,B10 |  |  |  |  |  |  |
| 12 | 07/08/17 | B23,B24 | B13,B14 | B15,B16 | B17,B18 | B19,B20 | B21,B22 |  |  |  |  |  |  |
| 13 | 16/09/17 |  |  |  |  |  |  | B1,B2 | B3,B4 | B5,B6 | B7,B8 | B9,B10 | B11,B12 |
| 14 | 22/08/17 |  |  |  |  |  |  | B13,B14 | B15,B16 | B17,B18 | B19,B20 | B21,B22 | B23,B24 |
| 15 | 23/09/17 |  |  |  |  |  |  | B3,B4 | B5,B6 | B7,B8 | B9,B10 | B11,B12 | B1,B2 |
| 16 | 05/09/17 |  |  |  |  |  |  | B15,B16 | B17,B18 | B19,B20 | B21,B22 | B23,B24 | B13,B14 |
| 17 | 07/10/17 |  |  |  |  |  |  | B5,B6 | B7,B8 | B9,B10 | B11,B12 | B1,B2 | B3,B4 |
| 18 | 12/09/17 |  |  |  |  |  |  | B17,B18 | B19,B20 | B21,B22 | B23,B24 | B13,B14 | B15,B16 |
| 19 | 10/10/17 |  |  |  |  |  |  | B7,B8 | B9,B10 | B11,B12 | B1,B2 | B3,B4 | B5,B6 |
| 20 | 19/09/17 |  |  |  |  |  |  | B19,B20 | B21,B22 | B23,B24 | B13,B14 | B15,B16 | B17,B18 |
| 21 | 13/10/17 |  |  |  |  |  |  | B9,B10 | B11,B12 | B1,B2 | B3,B4 | B5,B6 | B7,B8 |
| 22 | 26/09/17 |  |  |  |  |  |  | B21,B22 | B23,B24 | B13,B14 | B15,B16 | B17,B18 | B19,B20 |
| 23 | 24/10/17 |  |  |  |  |  |  | B11,B12 | B1,B2 | B3,B4 | B5,B6 | B7,B8 | B9,B10 |
| 24 | 17/10/17 |  |  |  |  |  |  | B23,B24 | B13,B14 | B15,B16 | B17,B18 | B19,B20 | B21,B22 |

**Note: Session Indicates 3 (or) 4 Periods**

**B1 to B24 are batches and each batch contains 2 or3members**