**LAB SCHEDULE**

**Name of the dept. : ECE class : III – I ECE-A**

**Lab name : ICA LAB year : 2015-16**

**LIST OF EXPERIMENTS**

1. Study of OP AMPs – IC 741, IC 555, IC 565, IC 566, IC 1496 – functioning, parameters and specifications.
2. OP AMP Applications – Adder, subtractor and comparator circuits.
3. Integrator and Differentiator Circuits using IC 741.
4. Active Filter Applications – LPF, HPF (first order & second order).
5. IC 741 Oscillator Circuits – Phase Shift and Wien Bridge Oscillators.
6. Function Generator using OP AMP.
7. 4 bit DAC using OP AMP.
8. IC 555 Timer – Monostable Operation Circuit.
9. IC 555 Timer – Astable Operation Circuit.
10. Schmitt Trigger Circuits – using IC 741 and IC 555.
11. IC 565 – PLL Applications.
12. Voltage Regulators – 7805, 7912.

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| Sl.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 | | 20-07-15 (A.N) | B1-B10 and Demo on lab experiments | |  | |  | |  | |  | |  |  | |  | |  | |  | |  | |  |
| 2 | | 22-07-15 (F.N) | B11-B20 and Demo on lab experiments | |  | |  | |  | |  | |  |  | |  | |  | |  | |  | |  |
| 3 | | 27-07-15 (A.N) |  | | B1,B6 | | B2,B7 | | B3,B8 | | B4,B9 | | B5,B10 |  | |  | |  | |  | |  | |  |
| 4 | | 29-07-15 (F.N) |  | | B11,B16 | | B12,B17 | | B13,B18 | | B14,B19 | | B15,B20 |  | |  | |  | |  | |  | |  |
| 5 | | 03-08-15 (A.N) |  | | B2,B7 | | B3,B8 | | B4,B9 | | B5,B10 | | B1,B6 |  | |  | |  | |  | |  | |  |
| 6 | | 05-08-15 (F.N) |  | | B12,B17 | | B13,B18 | | B14,B19 | | B15,B20 | | B11,B16 |  | |  | |  | |  | |  | |  |
| 7 | | 10-08-15 (A.N) |  | | B3,B8 | | B4,B9 | | B5,B10 | | B1,B6 | | B2,B7 |  | |  | |  | |  | |  | |  |
| 8 | | 12-08-15 (F.N) |  | | B13,B18 | | B14,B19 | | B15,B20 | | B11,B16 | | B12,B17 |  | |  | |  | |  | |  | |  |
| 9 | | 17-08-15 (A.N) |  | | B4,B9 | | B5,B10 | | B1,B6 | | B2,B7 | | B3,B8 |  | |  | |  | |  | |  | |  |
| 10 | | 19-08-15 (F.N) |  | | B14,B19 | | B15,B20 | | B11,B16 | | B12,B17 | | B13,B18 |  | |  | |  | |  | |  | |  |
| 11 | | 24-08-15 (A.N) |  | | B5,B10 | | B1,B6 | | B2,B7 | | B3,B8 | | B4,B9 |  | |  | |  | |  | |  | |  |
| 12 | | 26-08-15 (F.N) |  | | B15,B20 | | B11,B16 | | B12,B17 | | B13,B18 | | B14,B19 |  | |  | |  | |  | |  | |  |
| 13 | | 31-08-15 (A.N) |  | |  | |  | |  | |  | |  | B1,B7 | | B2,B8 | | B3,B9 | | B4,B10 | | B5,B11 | | B6,B12 |
| 14 | | 02-09-15 (F.N) |  | |  | |  | |  | |  | |  | B13,B19 | | B14,B20 | | B15,B21 | | B16,B22 | | B17,B23 | | B18,B24 |
| 15 | | 07-09-15 (A.N) |  | |  | |  | |  | |  | |  | B2,B8 | | B3,B9 | | B4,B10 | | B5,B11 | | B6,B12 | | B1,B7 |
| 16 | | 09-09-15 (F.N) |  | |  | |  | |  | |  | |  | B14,B20 | | B15,B21 | | B16,B22 | | B17,B23 | | B18,B24 | | B13,B19 |
| 17 | | 14-09-15 (A.N) |  | |  | |  | |  | |  | |  | B3,B9 | | B4,B10 | | B5,B11 | | B6,B12 | | B1,B7 | | B2,B8 |
| 18 | | 16-09-15 (F.N) |  | |  | |  | |  | |  | |  | B15,B21 | | B16,B22 | | B17,B23 | | B18,B24 | | B13,B19 | | B14,B20 |
| 19 | | 21-09-15 (A.N) |  | |  | |  | |  | |  | |  | B4,B10 | | B5,B11 | | B6,B12 | | B1,B7 | | B2,B8 | | B3,B9 |
| 20 | | 23-09-15 (F.N) |  | |  | |  | |  | |  | |  | B16,B22 | | B17,B23 | | B18,B24 | | B13,B19 | | B14,B20 | | B15,B21 |
| 21 | | 14-10-15 (A.N) |  | |  | |  | |  | |  | |  | B5,B11 | | B6,B12 | | B1,B7 | | B2,B8 | | B3,B9 | | B4,B10 |
| 22 | | 12-10-15 (F.N) |  | |  | |  | |  | |  | |  | B17,B23 | | B18,B24 | | B13,B19 | | B14,B20 | | B15,B21 | | B16,B22 |
| 23 | | 28-10-15 (A.N) |  | |  | |  | |  | |  | |  | B6,B12 | | B1,B7 | | B2,B8 | | B3,B9 | | B4,B10 | | B5,B11 |
| 24 | | 19-10-15 (F.N) |  | |  | |  | |  | |  | |  | B18,B24 | | B13,B19 | | B14,B20 | | B15,B21 | | B16,B22 | | B17,B23 |
| 25 | 09-11-15 (A.N) | | | B1-B10 Internal exam | | | | | | | | | | |  | |  | |  | |  | |  | |
| 26 | 04-11-15 (F.N) | | |  | |  | |  | |  | |  | | | B11-B20 internal exam | | | | | | | | | |

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

**B1 to B20 are batches and each batch contains 3 to 4 members**