**LAB SCHEDULE**

**Name of the dept. : ECE Class : III – I , ECE-B**

**Lab name : ICA LAB Year : 2014-15**

**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. IC 555 Timer – Monostable Operation Circuit.

8. IC 555 Timer – Astable Operation Circuit.

9. Schmitt Trigger Circuits – using IC 741 and IC 555.

10. Voltage Regulator using IC 723

11.Voltage Regulators –7805, 7809, 7912

12.4 bit DAC using OP AMP.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No | Date | 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 | 25/8/14 | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  |  |  |  |  |  |  |
| 2 | 27/8/14 | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  |  |  |  |  |  |  |
| 3 | 8/9/14 |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  |  |  |  |  |  |
| 4 | 3/9/14 |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  |  |  |  |  |  |
| 5 | 15/9/14 | B5,B10 |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 |  |  |  |  |  |  |
| 6 | 10/9/14 | B15,B20 |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 |  |  |  |  |  |  |
| 7 | 22/9/14 | B4,B9 | B5,B10 |  | B1,B6 | B2,B7 | B3,B8 |  |  |  |  |  |  |
| 8 | 17/9/14 | B14,B19 | B15,B20 |  | B11,B16 | B12,B17 | B13,B18 |  |  |  |  |  |  |
| 9 | 6/10/14 | B3,B8 | B4,B9 | B5,B10 |  | B1,B6 | B2,B7 |  |  |  |  |  |  |
| 10 | 24/9/14 | B13,B18 | B14,B19 | B15,B20 |  | B11,B16 | B12,B17 |  |  |  |  |  |  |
| 11 | 20/10/14 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  | B1,B6 |  |  |  |  |  |  |
| 12 | 8/10/14 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  | B11,B16 |  |  |  |  |  |  |
| 13 | 27/10/14 |  |  |  |  |  |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  |
| 14 | 15/10/14 |  |  |  |  |  |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  |
| 15 | 17/11/14 |  |  |  |  |  |  |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |
| 16 | 22/10/14 |  |  |  |  |  |  |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |
| 17 | 26/11/14 |  |  |  |  |  |  | B5,B10 |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 |
| 18 | 30/10/14 |  |  |  |  |  |  | B15,B20 |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 |
| 19 | 30/11/14 |  |  |  |  |  |  | B4,B9 | B5,B10 |  | B1,B6 | B2,B7 | B3,B8 |
| 20 | 5/11/14 |  |  |  |  |  |  | B14,B19 | B15,B20 |  | B11,B16 | B12,B17 | B13,B18 |
| 21 | 1/12/14 |  |  |  |  |  |  | B3,B8 | B4,B9 | B5,B10 |  | B1,B6 | B2,B7 |
| 22 | 12/11/14 |  |  |  |  |  |  | B13,B18 | B14,B19 | B15,B20 |  | B11,B16 | B12,B17 |
| 23 | 3/12/14 |  |  |  |  |  |  | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  | B1,B6 |
| 24 | 19/11/14 |  |  |  |  |  |  | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  | B11,B16 |
| 25 | 11/12/14 | B1-B10 Internal exam | | | | | | | | | | | |
| 26 | 10/12/14 | B11-B20 internal exam | | | | | | | | | | | |

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

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