**LAB SCHEDULE**

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

**Lab name : ICA LAB Year : 2016-17**

**LIST OF EXPERIMENTS**

Study of OP AMPs – IC 741, IC 555, IC 565, IC 566, IC 1496 – functioning, parameters and specifications. 2. 1.OP AMP Applications – Adder, subtractor and comparator circuits.

2. Integrator and Differentiator Circuits using IC 741.

3. Active Filter Applications – LPF, HPF (first order & second order).

4. IC 741 Oscillator Circuits – Phase Shift and Wien Bridge Oscillators.

5. Function Generator using OP AMP.

6. 4 bit DAC 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 Regulators – 723, 7805, 7809, 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 |
| 1 | 7.7.2016 | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |  |  |  |  |  |
| 2 | 14.7.2016 | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |  |  |  |  |  |
| 3 | 21.7.2016 | B2,B7 | B3,B8 | B4,B9 | B5,B10 | B1,B6 |  |  |  |  |  |
| 4 | 4.8.2016 | B12,B17 | B13,B18 | B14,B19 | B15,B20 | B11,B16 |  |  |  |  |  |
| 5 | 11.8.2016 | B3,B8 | B4,B9 | B5,B10 | B1,B6 | B2,B7 |  |  |  |  |  |
| 6 | 18.8.2016 | B13,B18 | B14,B19 | B15,B20 | B11,B16 | B12,B17 |  |  |  |  |  |
| 7 | 1.9.2016 | B4,B9 | B5,B10 | B1,B6 | B2,B7 | B3,B8 |  |  |  |  |  |
| 8 | 8.9.2016 | B14,B19 | B15,B20 | B11,B16 | B12,B17 | B13,B18 |  |  |  |  |  |
| 9 | 15.9.2016 | B5,B10 | B1,B6 | B2,B7 | B3,B8 | B4,B9 |  |  |  |  |  |
| 10 | 29.9.2016 | B15,B20 | B11,B16 | B12,B17 | B13,B18 | B14,B19 |  |  |  |  |  |
| 11 | 1.7.2016 |  |  |  |  |  | B1,B6 | B2,B7 | B3,B8 | B4,B9 | B5,B10 |
| 12 | 15.7.2016 |  |  |  |  |  | B11,B16 | B12,B17 | B13,B18 | B14,B19 | B15,B20 |
| 13 | 22.7.2016 |  |  |  |  |  | B2,B7 | B3,B8 | B4,B9 | B5,B10 | B1,B6 |
| 14 | 5.8.2016 |  |  |  |  |  | B12,B17 | B13,B18 | B14,B19 | B15,B20 | B11,B16 |
| 15 | 12.8.2016 |  |  |  |  |  | B3,B8 | B4,B9 | B5,B10 | B1,B6 | B2,B7 |
| 16 | 19.8.2016 |  |  |  |  |  | B13,B18 | B14,B19 | B15,B20 | B11,B16 | B12,B17 |
| 17 | 26.8.2016 |  |  |  |  |  | B4,B9 | B5,B10 | B1,B6 | B2,B7 | B3,B8 |
| 18 | 2.9.2016 |  |  |  |  |  | B14,B19 | B15,B20 | B11,B16 | B12,B17 | B13,B18 |
| 19 | 9.9.2016 |  |  |  |  |  | B5,B10 | B1,B6 | B2,B7 | B3,B8 | B4,B9 |
| 20 | 16.9.2016 |  |  |  |  |  | B15,B20 | B11,B16 | B12,B17 | B13,B18 | B14,B19 |
| 21 | 27.10.2016 | B1-B10 Internal exam | | | | | | | | | |
| 22 | 28.10.2016 | B11-B20 internal exam | | | | | | | | | |

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

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