**LAB SCHEDULE**

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

**Lab name : DSP LAB year : 2017-18**

**LIST OF EXPERIMENTS**

To study the architecture of DSP chips – TMS 320C 5X/6X instructions.

2. To verify linear convolution.

3. To verify the circular convolution.

4. To design FIR filter (LP/HP) using windowing technique.

i. Using rectangular window.

ii. Using Hamming window. iii. Using Kaiser Window.

5. To implement IIR filter (LP/HP) on DSP processors.

6. N – point FFT algorithm.

7. MATLAB program to generate sum of sinusoidal signals.

8. MATLAB program to find frequency response of analog LP/HP filters.

9. To compute power density spectrum of a sequence.

10. To find the FFT of given 1 – D signal and plot.

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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 | 20-11-2017 | Lab Demonstration | | | | | | | | | |
| 2 | 27-11-2017 | B1 – B11 |  |  |  |  |  |  |  |  |  |
| 3 | 04-12-2017 |  | B1 – B11 |  |  |  |  |  |  |  |  |
| 4 | 11-12-2017 |  |  | B1 – B11 |  |  |  |  |  |  |  |
| 5 | 18-12-2017 |  |  |  | B1 – B11 |  |  |  |  |  |  |
| 6 | 08-01-2018 |  |  |  |  | B1 – B11 |  |  |  |  |  |
| 7 | 22-01-2018 |  |  |  |  |  | B1 – B11 |  |  |  |  |
| 8 | 29-01-2018 |  |  |  |  |  |  | B1 – B11 |  |  |  |
| 9 | 05-02-2018 |  |  |  |  |  |  |  | B1 – B11 |  |  |
| 10 | 12-02-2018 |  |  |  |  |  |  |  |  | B1 – B11 |  |
| 11 | 19-02-2018 |  |  |  |  |  |  |  |  |  | B1 – B11 |
| 12 | 26-02-2018 | Revision of Experiments | | | | | | | | | |
| 13 | 05-03-2018 | Revision of Experiments | | | | | | | | | |
| 14 | 18-03-2018 | Lab Internal Examination | | | | | | | | | |

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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 | 25-11-2017 | Lab Demonstration | | | | | | | | | |
| 2 | 16-12-2017 | B1 – B11 |  |  |  |  |  |  |  |  |  |
| 3 | 23-12-2017 |  | B1 – B11 |  |  |  |  |  |  |  |  |
| 4 | 06-01-2018 |  |  | B1 – B11 |  |  |  |  |  |  |  |
| 5 | 20-01-2018 |  |  |  | B1 – B11 |  |  |  |  |  |  |
| 6 | 27-01-2018 |  |  |  |  | B1 – B11 |  |  |  |  |  |
| 7 | 03-02-2018 |  |  |  |  |  | B1 – B11 |  |  |  |  |
| 8 | 10-02-2018 |  |  |  |  |  |  | B1 – B11 |  |  |  |
| 9 | 17-02-2018 |  |  |  |  |  |  |  | B1 – B11 |  |  |
| 10 | 24-02-2018 |  |  |  |  |  |  |  |  | B1 – B11 |  |
| 11 | 10-03-2018 |  |  |  |  |  |  |  |  |  | B1 – B11 |
| 12 | 17-03-2018 | Lab Internal Examination | | | | | | | | | |

BATCH – II