**LAB SCHEDULE**

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

**Lab name : DSP LAB year : 2016-17**

**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.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 04-01-2016 | Lab Demonstration | | | | | | | | | |
| 2 | 11-01-2016 | B1 – B11 |  |  |  |  |  |  |  |  |  |
| 3 | 18-01-2016 |  | B1 – B11 |  |  |  |  |  |  |  |  |
| 4 | 25-01-2016 |  |  | B1 – B11 |  |  |  |  |  |  |  |
| 5 | 08-02-2016 |  |  |  | B1 – B11 |  |  |  |  |  |  |
| 6 | 15-02-2016 |  |  |  |  | B1 – B11 |  |  |  |  |  |
| 7 | 22-02-2016 |  |  |  |  |  | B1 – B11 |  |  |  |  |
| 8 | 29-02-2016 |  |  |  |  |  |  | B1 – B11 |  |  |  |
| 9 | 14-03-2016 |  |  |  |  |  |  |  | B1 – B11 |  |  |
| 10 | 21-03-2016 |  |  |  |  |  |  |  |  | B1 – B11 |  |
| 11 | 04-04-2016 |  |  |  |  |  |  |  |  |  | B1 – B11 |
| 12 | 11-04-2016 | Revision of Experiments | | | | | | | | | |
| 13 | 08-04-2016 | Revision of Experiments | | | | | | | | | |
| 14 | 25-04-2016 | Lab Internal Examination | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 06-01-2016 | Lab Demonstration | | | | | | | | | |
| 2 | 20-01-2016 | B1 – B11 |  |  |  |  |  |  |  |  |  |
| 3 | 27-01-2016 |  | B1 – B11 |  |  |  |  |  |  |  |  |
| 4 | 10-02-2016 |  |  | B1 – B11 |  |  |  |  |  |  |  |
| 5 | 24-02-2016 |  |  |  | B1 – B11 |  |  |  |  |  |  |
| 6 | 02-03-2016 |  |  |  |  | B1 – B11 |  |  |  |  |  |
| 7 | 09-03-2016 |  |  |  |  |  | B1 – B11 |  |  |  |  |
| 8 | 16-03-2016 |  |  |  |  |  |  | B1 – B11 |  |  |  |
| 9 | 30-03-2016 |  |  |  |  |  |  |  | B1 – B11 |  |  |
| 10 | 06-04-2016 |  |  |  |  |  |  |  |  | B1 – B11 |  |
| 11 | 13-04-2016 |  |  |  |  |  |  |  |  |  | B1 – B11 |
| 12 | 20-04-2016 | Lab Internal Examination | | | | | | | | | |

BATCH – II