

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
|--------|------------------|-----------------------------------------------|----------|----------------------|---------|-------------------------------|
| 1 | 10/9 | Properties of DFT | I | BB | | |
| 2 | 11/9 | Linear filtering methods based on the DFT | " | " | | |
| 3 | 12/9 | overlap-save, overlap-add methods | " | " | | |
| 4 | 13/9 | frequency analysis of signals Radix 2 FFT | " | " | | |
| 5 | 18/9 | split Radix FFT algorithms The Goertzel | " | " | | |
| 6 | 19/9 | chirp Z transform algorithms | " | " | | |
| 7 | 20/9 | design of IIR filters using Butterworth | II | BB | | |
| 8 | 21/9 | Design of IIR filters chebyshev approximation | " | " | | |
| 9 | 25/9 | frequency transformation techniques | " | " | | |
| 10 | 26/9 | Structures for IIR systems - cascade | " | " | | |
| 11 | 27/9 | Parallel, lattice & lattice ladder | " | " | | |
| 12 | 28/9 | Fourier series method | III | BB | | |
| 13 | 3/10 | Windowing techniques | " | " | | |
| 14 | 4/10 | design of digital filters based on (LSM) | " | " | | |
| 15 | 5/10 | Pade approximations | " | " | | |
| 16 | 9/10 | least squares design | " | " | | |
| 17 | 10/10 | wiener filter method | " | " | | |
| 18 | 11/10 | Structures for FIR system cascade | IV | BB | | |
| 19 | 12/10 | Parallel | " | " | | |
| 20 | 17/10 | lattice | " | " | | |

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|--------|---------------------|---------------------------------------|-------------|-------------------------|---------|----------------------------------|
| 21 | 18/10 | lattice ladder structures | " | " | | |
| 22 | 19/10 | Estimation of Spectra from | V | BB | | |
| 23 | 23/10 | finite duration observation of | " | " | | |
| 24 | 24/10 | signals | " | " | | |
| 25 | 25/10 | Non Parametric Methods: Bartlett | " | " | | |
| 26 | 26/10 | welch & Blackman | " | " | | |
| 27 | 30/10 | Tukey method | " | " | | |
| 28 | 31/10 | Relation between | " | " | | |
| 29 | 2/11 | auto correlation & | " | " | | |
| 30 | 6/11 | Model Parameters | " | " | | |
| 31 | 7/11 | Yule-walker method | " | " | | |
| 32 | 8/11 | Burg method | " | " | | |
| 33 | 9/11 | MA for Power Spectrum estimation | " | " | | |
| 34 | 5/12 | ARMA for Power Spectrum estimation | " | " | | |
| 35 | 6/12 | Analysis of finite word | VI | BB | | |
| 36 | 7/12 | length effects in fixed point | " | " | | |
| 37 | 11/12 | DSP Systems | " | " | | |
| 38 | 12/12 | fixed | " | " | | |
| 39 | 13/12 | floating Point Arithmetic | " | " | | |
| 40 | 14/12 | ADC | " | " | | |

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[illegible]