



KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: ELECTRONICS AND COMPUTER ENGG

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: DIGITAL SIGNAL PROCESSING (EC-614-F)

Semester VI

Name of Faculty with designation : Mrs. Dimple Sapru (Associate Professor)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	VI ECE	A	Signal classifications, frequency domain representation, time domain representation,	.....	
January	11.01.2018 Thursday	VI ECE	A	Representation of sequences by Fourier transform, Properties of Fourier transform		
January	12.01.2018 Friday	VI ECE	A	Properties of Fourier transform with examples		Assignment 1 given
January	15.01.2018 Monday	VI ECE	A	Numericals of Fourier Transform		
January	18.01.2018 Thursday	VI ECE	A	Numericals of Fourier Transform		
January	19.01.2018 Friday	VI ECE	A	Discrete time Random signals, and Energy and Power theorems.		Assignment 2 given
January	25.01.2018 Thursday	VI ECE	B	Numericals on Energy and Power System		
January	29.01.2018 Monday	VI ECE	B	Classifications of System, Time invariant system		
February	01.02.2018 Thursday	VI ECE	B	Numericals on System		Assignment 3 given
February	02.02.2018 Friday	VI ECE	B	Finite impulse Response (FIR) system, infinite impulse response (IIR) system.		
February	05.02.2018 Monday	VI ECE	B	Test / Discussion on Questions of Assignment 1 & 2		Test

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February	08.02.2018 Thursday	VI ECE	B	Sampling theorem, application, frequency domain representation of sampling, reconstruction of band limited signal from its sample		Assignment 4 given
February	09.02.2018 Friday	VI ECE	C	Discrete time processing of continuous time signals, changing the sampling rate using discrete time processing.		
February	19.02.2018 Monday	VI ECE	C	Introduction, properties of the region of convergence, properties of the Z-Transform		
February	22.02.2018 Thursday	VI ECE	C	Numericals on Z-Transform		Assignment 5 given
February	23.02.2018 Friday	VI ECE	C	Inversion of the Z-transform		
February	26.02.2018 Monday	VI ECE	C	Applications of Z-transform		Test
March	05.03.2018 Monday	VI ECE	C	Fundamentals of digital filtering,		
March	08.03.2018 Thursday	VI ECE	C	Test / Discussion on Questions of Assignment 3&4		Test
March	09.03.2018 Friday	VI ECE	C	Various types of digital filters,		Assignment 6 given
March	12.03.2018 Monday	VI ECE	C	Design techniques of digital filters window technique for FIR		
March	15.03.2018 Thursday	VI ECE	C	Bi-linear transformation and backward difference methods for IIR filter design		
March	16.03.2018 Friday	VI ECE	C	Analysis of finite word length effects in DSP, DSP algorithm implementation consideration. Applications of DSP.		Assignment 7 given
March	26.03.2018 Monday	VI ECE	D	Introduction to multirate digital signal processing,		
March	30.03.2018 Thursday	VI ECE	D	Nyquist		
April	02.04.2018 Monday	VI ECE	D	Discussion on Questions of Assignment 5&6		Assignment 8 given
April	05.04.2018 Thursday	VI ECE	D	Sampling rate conversion, filter structures		

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April	06.04.2018 Friday	VI ECE	D	Multistage decimator and Interpolators, digital filter banks.		Assignment 9 given
April	09.04.2018 Monday	VI ECE		Revision		