INTEGRAL UNIVERSITY, LUCKNOW

DEPARTMENT OF ELECTRONICS AND COMM.ENGINEERING

LECTURE PLAN

NAME: QAZI S.AHMAD **BRANCH/SECTION:** ECE

DESIGNATION: Asst.professor **YEAR/SEMESTER:** II/IVTH

SUBJECT/CODE: Signal and Systems/IEC-402 **Session:** 2013-14

Lecture No.	Name of the Topics	Unit no.	Date of delivery	Remarks
1.	Introduction,Signals and their classification	I		
2.	Signals operation	I		
3.	Transformation of independent variable ,Covolution	I		
4.	, Continuous andDiscrete time signals	I		
5.		I		
6.	Basic systemproperties	I		
7.	LTI system, Characterization	I		
8.	Characterization by Impulse response and step response	I		
9.	Fourier series representation of periodic signal	II		
10.	Fourier transfomation	II		
11.	Properties of Fourier transformation	II		
12.	Discrete time fourier transform of non periodic signal	II		
13.	fourier transform of periodic discrete signal	II		
14.	Properties of DFS	II		
15.	Fourier transform of different signal	II		
16.		II		

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Lecturer No	Name of the Topics	Unit no.	Date of delivery	Remarks

17.	Magnitude-Phase representation of fourier transform	III		
18.	Frequency response of LTI systems	III		
19.	Time domain properties of ideal selective filters	III		
20.	Time domain and frequency domain aspects of ideal and non ideal filters	III		
21.	First order and second order continous and discrete systems	III		
22.	Unit Impulse response for continuous time system	III		
23.	Disacrete time system analysis using Z-transform	III		
24.	Sampling	IV		
25.	Sampling theorem	IV		
26.	Ideal Samplimg, Flat top sampling	IV		
27.	Natural Sampling	IV		
28.	Reconstruction of signals from signals	IV		
29.	Aliasing effects, up-sampling and down sampling	IV		
30.	Discrete time processing of continous time signals	IV		
31.	Sampling of band pass signals	IV		
32.	Z- Transform	V		
33.	Introduction to Z-transforms	V		
34.	Properties of Z-transforms	V		

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35.	inverse Z- Transforms	V		
36.	inverse Bilateral Z- Transforms	V		
37.	Unilateral Z- Transforms properties and theorem	V		
38.	Analysis and characterization of discrete LTI systems	V		
39.	Realization of discrete transform systems	V		
40.	Parseval's theorem for Z- Transforms	V		

Text Books: V. Openhiem, A.S. Willsky, S.H.Nawab/Signals and systems, PHI, Second Edition

Reference Books:1 Haykins/Signals and systems/ Wiley india

2.H.P Psu/ Signals and systems/Mc Graw-Hill Education India