		YMCA University of Science & Technology, Faridabad	
Term: B.T	ech EIC III Se	mester	
Course Name: Signals and Systems (EI-204C)			Faculty
			lectures
	Unit	Торіс	required
	1.1	Continuous Time and Discrete Time signals	
	1.2	Exponential and Sinusoidal Signals	
		Unit Impulse and Unit Step Functions	
		Continuous and Discrete Time Systems	
1		Basic System Properties	
2		Discrete Time LTI Systems	
		Continuous Time LTI Systems	-
		Properties of LTI Systems	
		Causal LTI Systems Described by Difference equations	
3	3.1	Response of LTI systems to Complex Exponentials	
		Fourier series Representation of CT periodic Signals	2
		Properties of CT Fourier Series,	2
		Fourier Series representation of DT periodic Signals	
	3.5	Properties of DFS	
	3.6	Fourier series and LTI Systems	-
		Filtering	1
	3.8	Examples of CT filters, Examples of DT filters	
	4.1	Representation of a periodic Signals by continuous FT	-
		FT of periodic signals, convolution and multiplication property of	
	4.2	continuous FT	
		Systems characterized by Linear Constant Coefficient Differential	
	4.3	Equations	
	4.4	Magnitude and phase representation of FT	
	4.5	Magnitude and phase response of LTI systems	
		Time domain and Frequency domain aspects of ideal and non ideal	
4	4.6	filters	
5	5.1	Need of Laplace transform, ROC	
	5.2	Properties	
	5.3	Initial and final value theorem	
	5.4	Parallel and cascade structure	
	6.1	Properties of DTFT	2
	6.2	Convolution property, multiplication property, Duality property	
		Systems characterized by Linear Constant Coefficient Difference	
	6.3	Equations	:
6	6.4	Properties of DFT	2