

**LESSON PLAN**

Semester:6TH		Year:	Course: B.Tech
		Sub:ADC	Total Credit: 03
Branch : EEE		Sub Code :REE6C001	
Name of the Faculty:		Dr.Girish Padhan	
Designation :		HOD & Prof. in CSE	
Department :		COMPUTER SC.&ENGG	
Session:-		2024-25	
Recommended Books:-		Text book:	
(1)JohnG.Proakis,M.Salehi,Communication SystemsEngineering,2nded.New Delhi, India. PHI Learning Private Limited, 2009.		1.JohnG.Proakis,M.Salehi,CommunicationSystemsEngineering,2nded.New Delhi, India. PHI Learning Private Limited, 2009.	
msEngineering,2nded.New Delhi, India. PHI Learning Private Limited, 2009.		2. R.PSinghandS.DSapre,CommunicationSystemsAnalog&Digital,2nded.New Delhi, India. Tata McGraw Hill Education	
		Reference Books:	
		1.JohnG.Proakis,M.Salehi,CommunicationSystemsEngineering,2nded.New Delhi, India. PHI Learning Private Limited, 2009.	
		2. R.PSinghandS.DSapre,CommunicationSystemsAnalog&Digital,2nded.New Delhi, India. Tata McGraw Hill Education	
Sl. No.	Lecture No.	Topics to be covered	No. of Classes
MODULE-1(Introduction)			
1	Lecture-01	Introduction: Elements of an Electrical Communication System	8
2	Lecture-02	CommunicationChannels and their Characteristics	
3	Lecture-03	Mathematical Models for Communication ChannelsFrequency domain analysis of signals and systems	
4	Lecture-04	Fourier series,Fourier Transforms	
5	Lecture-05	Power and Energy	
6	Lecture-06	Sampling and Band limited signals	
7	Lecture-07	Band pass signals	
8	Lecture-08	Filter and signal	
MODULE-2:-Analog signal transmission and reception			
9	Lecture-09	Introduction to modulation, Amplitude Modulation (AM)	3
10	Lecture-10	Angle Modulation	
11	Lecture-11	Radio and Television broadcasting	
MODULE-3:- Pulsemodulationsystems:Pulseamplitudemodulation			
12	Lecture-12	PCM SYSTEM,BLOCK DIAGRAM	8
13	Lecture-13	PulseTime Modulation	
14	Lecture-14	mudulation/demodulation	
15	Lecture-15	Intersymbol interference, Eyepatterns,Equalization,	
16	Lecture-16	Companding, Time Division Multiplexing of PCM signals,	
17	Lecture-17	Line codes, Bandwidth of PCM system, Noise in PCM systems.	
18	Lecture-18	advantages/disadvantages	
19	Lecture-19	application/drawbacks	
MODULE-4(Delta Modulation (DM))			
20	Lecture-20	Limitations of DM, Adaptive Delta Modulation	4
21	Lecture-21	Noise in Delta Modulation	
22	Lecture-22	Comparison between PCM and DM,	
23	Lecture-23	Delta or Differential PCM (DPCM), S-Ary System.	

Signature of Faculty Member

Signature of HOD

PRINCIPAL