VIKASH INSTITUTE OF TECHNOLOGY, BARGARH

LESSON PLAN

Semester:6th	**Year: 3rd**	**Course: B.Tech**
	Sub: Communication Engineering	**Total Credit:03**
Branch : EEE	**Sub Code : REE6C001**	
Name of the Faculty:	**Mrs.ADITEE SAHOO**	
Designation :	**Asst.Professor**	
Department :	**EEE**	
Session	**2024-25**	
Recommended Books	**Text book**:	
	John G.Proakis,M. Salehi, Communication Systems Engineering	
	R.P Singh and S.D Sapre, Communication Systems Analog & Digital, 2nd ed.	
	Reference Books:	
	1	
	2	

Sl. No.	Lecture No.	Topics to be covered	No. of Classes
		MODULE-1	
1	Lecture-01	Introduction: Elements of an Electrical Communication System	
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	7
5	Lecture-05	Power and Energy	
6	Lecture-06	Sampling and Band limited signals,	
7	Lecture-07	Band passsignals.signal	
		MODULE-2	
8	Lecture-08	Analog signal transmission and reception	
9	Lecture-09	Continue	
10	Lecture-10	Introduction to modulation	
11	Lecture-11	Amplitude Modulation (AM),	8
12	Lecture-12	Continue	
13	Lecture-13	Angle Modulation	
14	Lecture-14	Continue	
15	Lecture-15	Radio and Television broadcasting	
		MODULE-3	
16	Lecture-16	Pulse modulation systems	
17	Lecture-17	Pulse amplitude modulation	
18	Lecture-18	Pulse Time Modulation	
19	Lecture-19	Pulse code modulation: PCM system	

20	Lecture-20	Intersymbol interference	
21	Lecture-21	Eye patterns	11
22	Lecture-22	Equalization, Companding	
23	Lecture-23	Time Division Multiplexing of PCM signals	
24	Lecture-24	Line codes	
25	Lecture-25	Noise in PCM systems	
26	Lecture-26	Bandwidth of PCM system	

MODULE-4			
27	Lecture-27	Delta Modulation (DM),	9
28	Lecture-28	Limitations of DM,	
29	Lecture-29	Adaptive Delta Modulation	
30	Lecture-30	Noise in Delta Modulation	
31	Lecture-31	Comparison between PCM and DM,	
32	Lecture-32	Delta or Differential PCM (DPCM)	
33	Lecture-33	Continue	
34	Lecture-34	S-Ary System.	
35	Lecture-35	Continue	

Signature of Faculty Member **Signature of HOD**

PRINCIPAL