## Lecture Schedule for session (aug-dec), 2020

Course Code:- Digital Communication systems Course Title:- PCC ECE 502

S. No.	Topic Name	No. of lectures	Date of delivering lectures	Time slot	
1.	Introduction to digital communication, application, advantages and disadvantages	1	18/08	10:00 to 11:00	
2.	Block diagram of digital communication system.	1	19/08	3:00 to 4:00	
3.	Sampling.	2	21/08, 22/08	2:00 to 3:00 12:00 to 1:00	
4.	Quantisation & quantization error.	1	24/08	11:00 to 12:00	
5.	Signal to noise ratio due to quantization.	1	25/08	10:00 to 11:00	
6.	Companding	1	26/08	3:00 to 4:00	
7.	DPCM System	1	28/08	2:00 to 3:00	
8.	Delta Modulation.	1	29/08	12:00 to 1:00	
9.	Adaptive delta modulation.	1	31/08	11:00 to 12:00	
10	Introduction to line coding schemes and properties.	1	1/09	10:00 to 11:00	
11	NRZ (unipolar & bipolar)	1	2/09	3:00 to 4:00	
12	RZ, manchester	1	4/09	2:00 to 3:00	
13	AMI	1	5/09	12:00 to 1:00	
14	HDBn	1	7/09	11:00 to 12:00	
15	B8ZS	1	8/09	10:00 to 11:00	
16	Solved examples	1	9/09	3:00 to 4:00	
UNIT III					
17	Introduction to modulation and digital modulation, synchronous and asynchronous.	1	11/09	2:00 to 3:00	
18	ASK modulation & demodulation.	1	12/09	12:00 to 1:00	
19	Bandwidth and frequency spectrum of FSK	2	14/09, 15/09	11:00 to 12:00 10:00 to 11:00	
20	FSK detection using PLL	1	16/09	3:00 to 4:00	
21	BPSK transmission and BPSK spectrum	1	18/09	2:00 to 3:00	

22	BPSK detection	1	19/09	12:00 to 1:00
23	QPSK	1	21/09	11:00 to 12:00
24	QPSK demodulator	1	22/09	10:00 to 11:00
25	DPSK	1	23/09	3:00 to 4:00
26	Introduction to base band signal receiver,	2	25/09,	2:00 to 3:00
	Gaussian probability distribution function.		26/09	12:00 to 1:00
27	Power spectral density function and	1	28/09	11:00 to 12:00
	additive white Gaussian noise			
28	Probability of error in optimum filter	2	29/09,	10:00 to 11:00
			30/09	3:00 to 4:00
29	Probability of error in matched filter	1	3/10	12:00 to 1:00
30	Probability of error in ASK	1	5/10	11:00 to 12:00
31	Probability of error in BFSK	2	6/10,	10:00 to 11:00
			7/10	3:00 to 4:00
32	Probability of error in BPSK	2	9/10,	2:00 to 3:00
			10/10	12:00 to 1:00
33	Probability of error in QPSK	1	12/10	11:00 to 12:00
34	Spread spectrum and its advantages.	1	13/10	10:00 to 11:00
35	PN sequences and its generation.	1	14/10	3:00 to 4:00
36	DSSS	2	16/10,	2:00 to 3:00
			17/10	12:00 to 1:00
37	FHSS	2	19/10,	11:00 to 12:00
			20/10	10:00 to 11:00
38	Maximum length and grey codes	1	21/10	3:00 to 4:00
39	Problems in spread spectrum	1	23/10	2:00 to 3:00

Teacher incharge Manik Groach