

Lesson Plan

Name of Facility : Anju Bala

Discipline :Computer Engg.

Semester : 3rd

Subject : Data Communication

Week	Theory	
	Lecture Days	Topic (Include assignment /Test)
1st	1	Data communication- Components, Data representation.
	2	Data flow Network
	3	Distributed processing.
	4	Network criteria.
2nd	5	Physical structures
	6	Network category
	7	Wan
	8	Man
3rd	9	Analog and Digital data, Analog and digital signals,
	10	Revision
	11	Test
	12	Periodic and non periodic signals
4th	13	Periodic analog signals.
	14	Digital signals- Bit rate, bit length
	15	Digital signal as a composite analog signal,.
	16	Transmission of digital signals
	17	Test
5th	18	Transmission impairment- Attenuation, Distortion and noise
	19	Performance-bandwidth, throughput, latency, jitter.
	20	Revision
	21	1 sessional

6th	22 23	Analog transmission – digital to analog conversion ask, psk, fsk
	24	Test
	25	Analog to Analog conversion
	26	AM, PM, FM(No mathematical treatment)
7th	27	Test
		Digital transmission
	28	Digital to digital conversion-coding and schemes
	29	Analog to digital conversion
8th	30	PCM and Delta Modulation(DM)
	31	Transmission modes –serial and parallel and transmission
	32	Multiplexing
	33	FDM
9th	34	WDM
	35	TDM
	36	Revision
	37	Test
	38	Transmission media
10th	39	Guided
	40	Twisted pair cable
	41	Test
	42	Co –axial cable
11th	30	Fiber optics cable
	31	Unguided Media
	32	Radio wave
		Microwave
12th	33	Infrared
	34	Revision
	35	II sessional
13th	36	Error Detection and Correction
	37	Types of error
	38	Redundancy
		Detection v/s correction
		Test
14th	39	Forward error correction v/s retransmission.

	40	Error detection through parity bit
	41	Block parity to detect double error and correct single errors.
15th	42	General principles to error detection and using cyclic redundancy check
	43	Revision
	44	3 rd sessional