LESSON PLAN

NAME OF FACULTY : Anuj Gupta
DISCIPLINE : EEE
SEMESTER : 8th
SUBJECT : Modern trends in Communication
LESSON PLAN DURATION : 15 WEEKS (FROM JANUARY , 2018 TO APRIL, 2018)
WORK LOAD (LECTURE/PRACTICAL)PER WEEK (IN HOURS) :4 LECTURE, 1 Tutorial

WEEK	THEORY	
	Lectrue Day	Topic (Including Assignment/Test)
1st	I	Introduction of syallabus & its complete overview
	II	Sampling theorem & its description
	III	
	IV	proof of samling theorem for bandlimited signal
2nd	I	Bit rate & detection level
	II	Pulse code modulation & its block diagram
	III	Introduction to use code
	IV	
3rd	I	Detection & correction of code
	II	
	III	ASK & FSK techniques
	IV	DPSK & QPSK techniques
4th	I	Introduction of Satellite Communiction & its frequency used terms
	II	
	III	Orientation of Satellites
	IV	Transmission path & its losses
5th	I	
	II	Satellite system flux density
	III	
	IV	Link budget calculation
6th	I	
	II	Multiple Access technique & its types
	III	
	IV	Introduction to optic fiber communication & its compete overview
7th	I	
	II	
	III	Principle of optical fiber communicationn &total internal reflection
	IV	
8th	I	
	II	Step index & graded index optic fiber
	III	Single mode & multimode fiber communication
	IV	Rayleigh scattering
9th	I	waveguide dispersion,total dispersion
	II	Losses of optical fiber communication
	III	
	IV	
10th	I	Introduction of Optical Communication & its overview
	II	
	III	LED & semiconcuctor laser diode
	IV	
11th	I	PN photodiode
	II	
	III	Block diagram of optic communication system
	IV	avalanche photodiode & its operation
12th	I	design of pattern detector
	II	Connectors,splices & its types
	III	
	IV	
13th	I	Losses of optical communication
	II	Numerical Aperture & its derivation
	III	
	IV	Numericals of Numerical Aperture
14th	I	Loss budget & its calculation
	II	Material dispersion
	III	Inter model dispersion
	IV	Noise consideration & its losses
15th	I	bending & combined losses
	II	Practice Session & Revision
	III	
	IV	