

Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -1, ADVANCE COMMUNICATION ENGG.

Semester & Branch : 6TH SEM, ETC Engineering

Total Periods-75

Name of the faculty : MRS. SWETANJALI NAYAK

No of periods /week-5

WEEK	CLASS DAY	THEORY
1ST	1ST	BASIC RADAR, ADVANTAGES & ITS APPLICATION
	2ND	WORKING PRINCIPLE OF SIMPLE RADAR SYSTEM, ITS TYPES
	3RD	RADAR RANGE EQUATION & PERFORMANCE FCTOR OF RADAR
	4TH	WORKING PRINCIPLE OF PULSED RADAR SYSTEM
	5TH	FUNCTION OF RADAR INDICATION
2ND	1ST	WORKING PRINCIPLE OF MOVING TARGET INDICATOR
	2ND	DOPPLER EFFECT & WORKING PRINCIPLE OF C.W RADAR
	3RD	RADAR AIDS TO NAVIGATION
	4TH	MTI RADAR-WORKING PRINCIPLE
	5TH	AIRCRAFT LANDING SYSTEM, NAVIGATION SATELLITE SYSTEM
3RD	1ST	BASIC SATELLITE TRANSPONDER & KEPLER'S LAW
	2ND	SATELLITE ORBITAL PATTERNS & ELEVATION(LEO, MEO, GEO) CATEGORIES
	3RD	CONCEPT O GEOSTATIONARY SATELLITE, CALCULATE ITS HEIGHT, VELOCITY & ROUND TRIP TIME DELAY
	4TH	THEIR ADVANTAGES & DISADVANTAGES
	5TH	WORKING OF THE SATELLITE SUBSYSTEM
4TH	1ST	SATELLITE FREQUENCY ALLOCAION AND FREQUENCY BANDS
	2ND	GENERAL STRUCTURE OF SATELLITE LNKI SYSTEM(UPLINK, DOWN LINK, TRANSPONDER, CROSSLINK)
	3RD	WORKING PRINCIPLE OF DIRECT BROADCAST SYSTEM
	4TH	WORKING PRINCIPLE OF VSAT SYSTEM
	5TH	DEFINE MULTIPL ACCESSING & NAME THEIR VARIOUS TYPES
5TH	1ST	TIME DIVISION MULTIPLE ACCESSING(TDMA)
	2ND	CODE DIVISION MULTIPLE ACCESSING(CDMA)
	3RD	SATELLITE APPLICATION-MSAT, DIGITAL SATELLITE RADIO
	4TH	WORKING PRINCIPLE OF GPS RECEIVER & TRANSMITTER & APPLICATION
	5TH	OPTICAL SATELLITE LINK TRANSMITTER & RECEIVER
6TH	1ST	BASIC PRINCIPLE OF OPTICAL COMMUNICATION, COMPARE THE ADVANTAGES & DISAVANTAGES OF OPTICAL FIBRES & METALLIC CABLES
	2ND	ELECTROMAGNETIC FREQUENCY & WAVE LINE SPECTRUM
	3RD	TYPES OF OPTICAL FIBRES & PRINCIPLE OF PROPAGATION IN A FIBRE USING RAY THEORY
	4TH	OPTICAL FIBRE CONSTRUCTION
	5TH	DEFINE-VELOCITY OF PROPAGATION, CRITICAL ANGLE, ACCEPTANCE ANGLE, NUMERICAL APPERTURE
7TH	1ST	BLOCK DIAGRAM & WORKING PRINCIPLE OF OPTICAL FIBRE COMMUNICATION
	2ND	MODES OF PROPAGATION & INDEX PROFILE OF OPTICAL FIBRE
	3RD	TYPES OF OPTICAL FIBRE CONFIGURATION-SINGLE MODE STEP INDEX, MULTI MODE STEP INDEX, MULTI MODE GRADED INDEX
	4TH	ATTENUATION IN OPTICAL FIBRE , ABSORPTION LOSS, SCATTERING, BENDING LOSSES,
	5TH	MATERIAL DISPERSION, WAVE GUIDE DISPERSION, INTERMODAL DISPERSION
8TH	1ST	OPTICAL SOURCES & TYPES
	2ND	BLOCK DIAGRAM & WORKING PRINCIPLE OF LASER
	3RD	OPTICAL DETECTORS
	4TH	OPTICAL REPEATERS & SINGLE CHANNEL SYSTEM
	5TH	APPLICATION OF OPTICAL FIBRES, CONCEPT OF WDM
9TH	1ST	WORKING OF ELECTRONIC TELEPHONIC SYSTEM
	2ND	FUNCTION OF SWITCHING SYSTEM & CALL PROCEDURES

Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -1, ADVANCE COMMUNICATION ENGG.

Semester & Branch : 6TH SEM, ETC Engineering

Total Periods-75

Name of the faculty : MRS. SWETANJALI NAYAK

No of periods /week-5

	3RD	SPACE & TIME SWITCHING
	4TH	NUMBERING PLAN OF TELEPHONE NETWORKS
	5TH	WORKING PRINCIPLE OF PBX & DIGITAL EPABX
10TH	1ST	UNITS OF POWER MEASUREMENT
	2ND	WORKING PINCIPLE OF INTERNET PROTOCOL TELEPHONE
	3RD	WORKING PRINCIPLE OF INTERNET TELEPHONE
	4TH	BASIC CONCEPT OF DATA COMMUNICATION
	5TH	ARCHITECTURE, PROTOCOLS & STANDARDS
11TH	1ST	DATA COMMUNICATION CIRCUITS
	2ND	TYPES OF TRANSMISSION & MODES
	3RD	BASIC IDEA OF ERROR CONTROL & DETECTION
	4TH	MODEM CONCEPT
	5TH	FEATURES OF VOICE BAND MODEM
12TH	1ST	BASIC CONCEPT OF CELL PHONE, SYSTEM CAPACITY OF CELLULAR RADIO SYSTEMS
	2ND	CONCEPT OF IMPROVING COVERAGE & CAPACITY IN CELLULAR SYSTEM
	3RD	WIRELESS SYSTEM & ITS STANDARDS
	4TH	GSM SERVICES & FEATURES
	5TH	ARCHITECTURE OF GSM SYSTEM
13TH	1ST	WORKING OF FORWARD & REVERSE CDMA CHANNEL
	2ND	ARCHITECTURE & FEATURES OF GPRS
	3RD	MOBILE TCP, IP PROTOCOL
	4TH	WORKING OF WIRELESS APPLICATION PROTOCOL
	5TH	FEATURES OF SMS,MMS,
14TH	1ST	1G, 2G, 3G, 4G, 5G WIRELESS NETWORK
	2ND	SMART PHONE & DISCUSS ITS FEATURES WITH BLOCK DIAGRAM
	3RD	OBJECTIVE TYPE QUESTION DISCUSSION
	4TH	OBJECTIVE TYPE QUESTION DISCUSSION
	5TH	SEMESTER PATTERN QUESTION DISUSSION
15TH	1ST	SEMESTER PATTERN QUESTION DISUSSION
	2ND	PRACTICE TEST-1
	3RD	PRACTICE TEST-2
	4TH	PRACTICE TEST-3
	5TH	MOCK TEST

Sign of Faculty

Sign of HOD