

LESSONPLAN

Subject:MWR

Semester:6th ECE

Name of the Faculty: Anit Kumar

1	1 st	Introduction about the subject/course and its syllabus
	2 nd	Unit-1- Introduction to microwaves and its applications Classification on the basis of its frequency bands (HF,VHF,UHF, L, C, S, X, SUB mm)
2	3 rd	Unit-2- Microwave Devices Multicavity Klystron
	4 th	Reflex Klystron Multicavity Magnetron
3	5 th	Travelling wave tube
	6 th	Gunn Diode,Impatt Diode
4	7 th	Unit 3: Waveguides
	8 th	Rectangular and Circular Waveguides & their applications
5	9 th	Mode of Waveguide
	10 th	Propagation constant, cut-off wavelength
6	11 th	Guide wavelength and relation with free space wavelength
	12 th	Impossibility of TEM mode in a waveguide
7	13 th	Unit 4: Microwave components Microwave Tees
		Bends, matched termination
	14 th	Twists, detector mount
8	15 th	Slotted section
	16 th	Directional coupler
9	17 th	Fixed and variable attenuator
	18 th	Isolator
10	19 th	Circulator
		Duplexer, Coaxial to waveguide adapter Horn antenna
	20 th	Unit 5: Microwave Communication System Block diagram & working principle of Microwave communication link
11	21 st	Troposcatter communication
	22 nd	Unit 6: Radar systems Introduction and applications
12	23 rd	Radar range equation and its applications
	24 th	Block diagram & operating principle of basic Pulse Radar
13	25 th	Concept of ambiguous range
	26 th	Radar area of cross section and its dependence on frequency
14	27 th	Block diagram & operating principle of CW (Doppler) Radar
	28 th	FMCW Radar & applications
15	29 th	Block diagram & operating principle of MTI Radar
	30 th	Radar display-PPI

Lesson Plan

Faculty Anit Kumar

Subject Computer Network

Week	Topic
1	Introduction about the subject Networks Basics Concept of network-Models of network computing Networking models-Peer-to-peer Network
2	Server Client Network-Network Services Types of Computer Networks Concept of switching -Switching Techniques
3	Switching Techniques Network standards, OSI Reference Model OSI Physical layer
4	Data-link Layers & Network Layer concepts Transport Layer concepts & OSI Session Layer OSI presentation Layer concepts & Application layer concepts
5	Introduction to TCP/IP Concept of addressing-physical addressing IPV4addressspace,Notations
6	Addressing, Special Addressing
7	Sub netting and super netting Loopback concept Network Address Translation
8	IP packet Format-IPV4,IPV6 Types of Cables Type of communication Signals Wired LANs: Ethernet
9	Ethernet Specification and Standardization: 10Mbps(Traditional Ethernet),100Mbps(Fast Ethernet) 1000Mbps(Gigabit Ethernet),Leased lines UsesofRJ45,RJ11,BNC,SCSTConnectors
10	Network connectivity Devices NICs Hubs
11	Repeaters, switches Routers Configuration of Routers and Switches
12	Client/server Technology Server Management Raid management and mirroring
13	Cryptography Ethical Hacking Wireless LAN, MAN Networking Wi-Fi
14	Wi Max (Broadband Wireless) Li-Fi
15	Revision

Lesson Plan

Name of faculty: Sh. Yogender Singh

Subject: Medical Electronics

Week	Theory	Practical
	Topic (including assignment / test)	Topic
1 st	Introduction to Anatomy and Physiology	Operate and Feminization with B.P Apparatus and ECG Machine
	Elementary ideas of Cell Structure	
	Heart and Circulatory System	
	Central Nervous System	
	Muscle Action	To measure the Concentration of Blood sugar with Glucometer
	Respiratory System	
	Body temperature and Reproduction System	
	Overview of Medical Electronics Equipments	
2 nd	Classification, application and specification of laboratory Equipments	
	Classification, application and specification of therapeutic Equipments	
	Classification, application and specification of clinical Equipments	
	Method of operation of these instruments	
3 rd	Revision for 1 st Sessional, Classwork check and Assignment evaluation	Measuring of Respiration Rate
	Introduction to Electrodes	
	Bioelectric Signals	
	Bio electrodes	
4 th	Electrode	
	Electrode Tissue Interface	
5 th	Contact Impedance	Measuring of Pulse Rate
	Types of Electrodes	
6 th	Electrodes used for ECG	
	Electrodes used for EEG	
	Introduction to Transducers	
	Typical Signals from Physiological Parameters	
	Concept of Pressure Transducer	
	Concept of Flow Transducer	

7 th	Concept of Temperature Transducer	Study of Large Medical Equipments in Hospitals
	Concept of Pulse Sensor	
8 th	Study of Respiration Sensor	Installation of Small Medical Equipments in Hospitals
	Introduction to Biomedical Recorders	
	ECG Machine and its diagram description and application	
	EEG Machine and its diagram description and application	
9 th	EMG Machine and its diagram description and application	Operation and use of Electro-physiotherapy
	revision , Class work check and assignment evaluation	
	Introduction to Patient Monitoring System	
	Heart rate Measurement	
10 th	Pulse rate Measurement	Maintenance Schedule for
	Respiration rate Measurement	
	Blood Pressure Measurement	
	Principle of defibrillator and Pace Mark	
11 th	Use of Microprocessor in Patient Monitoring	different equipment and their records in Hospital
	Blood Sugar Measurement	
	Study of Safety Aspects of Medical Instruments	
12 th	Concept of Gross current Shock	
	Concept of Micro current Shock	
	Study about special design from safety consideration	
	Concept of Safety Standards	
13 th	Revision of Monitoring System for Various Measurements	
	Instrumentation Handling Methods	
14 th	Revision Class work check and Assignment evaluation	different equipment and their records in Hospital
	Class work check	
	Assignment Evaluation	
	Revision of full syllabus	
	Old question papers Solved	
	Final question Answers Evaluation from students	
	Examination Attemptation Techniques	
	Revision of full syllabus	

Lesson Plan

Name of faculty : Sh. Yogender Singh
 Subject : EDM

Week	Topic (including assignments/test)
1 st	Concept/meaning and its need
	Qualities and functions of entrepreneur and barriers in entrepreneurship
	Sole proprietorship and partnership forms of business organisations
2 nd	Scheme of assistance by entrepreneurial support agencies at national and district level
	NSIC, NRDC, DC:MSME, SIDBI, NABARD, COMMERCIAL BANKS, SFC'S DIC, TBI and STEP
	REVISION/DOUBTS SESSION
3 rd	Scanning of business environment
	Salient features of national and state industrial opportunities
	Types and conduct of market survey
4 th	Assessment of demand and supply in potential areas of growth
	Identifying business opportunities
	Consideration of product selection
5 th	REVISION/DOUBTS SESSION
	REVISION/Test
	Visit from market survey
6 th	Visit from market survey
	Preliminary project report
	Detailed project report including technical, economic and market feasibility
7 th	Common errors in project report preparation
	Exercises on preparation of project report
	Project reports collection from internet for different products
8 th	Definition and importance of management
	Functions of management: Importance of planning, organising, staffing, directing and controlling

	Principles of management, concept and structure of an organisation
9th	Line organisation, line and staff organisation, functional organisation
	REVISION/Test
	Definition and need of leadership, qualities and function of a leader
10th	Manager Vs leader, types of leadership
	Definition, characteristic of motivation
	Factors affecting motivation, theories of motivation
11th	Introduction and objective of human resource management, manpower planning, recruitment and selection
	Introduction to performance appraisal method
	Interactive session and test
12th	Introduction and objectives of material and store management
	ABC analysis and EOQ
	Interactive session and test
13th	Introduction, importance and functions of marketing and sales
	Physical distribution, introduction to promotion mix and sales promotion
	Introduction, importance and functions of financial management. Elementary knowledge of income tax, sales tax, excise, custom duty and VAT
14th	Definition, need and types of customer relation management
	Statistical process control, total employees involvement, JIT
	REVISION/Test
15th	Introduction, definition and importance of IPR
	Infringement related to patents, copyrights, trademarks
	REVISION/Test