

Lesson Plan of 2nd Semester

Lesson Plan Duration : JAN 2026 -MAY 2026 work Load (Lecture/ Practical) per week (in hours): 3 HOURS (Theory) + 08 HOURS (04 Hours*2 Groups) (PRACTICAL)							
Name of the Faculty: Dr. Pooja Malik Discipline : Electronics and Communication Engg. Subject :EDC-I Semester : II nd							
Week	Theory		Practical	Week	Theory		Practical
	Lecture day	Topic (including assignment/ test)	Topic		Lecture day	Topic (including assignment/ test)	Topic
1	1	UNIT I: Basic atomic structure and energy levels, concept of insulators, conductors and semiconductors	Plotting of V-I characteristics of a PN junction diode	8	22	CB, CE, CC configurations of a transistor	Fabrication of Full-wave rectifier circuit on breadboard and observe the output
	2	Atomic structure of Germanium (Ge) and Silicon (Si), covalent bonds.			23	Current amplification factors, relation between α , β and γ .	
	3	Concept of intrinsic and extrinsic semiconductor, process of doping			24	Comparison of CB, CE and CC Configurations	
2	4	Energy level diagram of conductors, insulators and semiconductors; minority and majority charge carriers.	Plotting of V-I characteristics of a Zener diode	9	25	Transistor as an amplifier in CE Configuration	Plotting of the wave shape of full wave rectifier with a. Shunt capacitor filter b. Series inductor filter
	5	P and N type semiconductors and their conductivity			26	Concept of DC load line and calculation of current gain and voltage gain using DC load line	
	6	Effect of temperature on conductivity of intrinsic semiconductors			27	Assignment no. 2	
3	7	UNIT II: PN junction diode, mechanism of current flow in PN junction	To observe input and output of series clipping circuits.	10	28	Revision of chapter 2	Plotting of input and output characteristics and calculation of parameters of transistors in CE configuration.
	8	Forward and reverse biased PN junction, potential barrier, drift and diffusion currents, depletion layer,			29	Revision of chapter 3	
	9	Concept of Junction capacitance in forward and reverse biased condition.			30	2 nd Sessional exam	
4	10	V-I characteristics	To observe input and output of shunt clipping circuits	11	31	UNIT IV: Concept of transistor biasing and selection of operating point	Plotting of input and output characteristics and calculation of parameters of transistors in CB configuration.
	11	Static and dynamic resistance and their value calculation from the characteristics.			32	Need for stabilization of operating point	
	12	Assignment no. 1			33	Different types of biasing circuits	
5	13	Revision of chapter 1	To observe input and	12	34	Single stage transistor amplifier circuit	Measurement of voltage gain,

	14	Revision of 1 st sessional exam	output of positive clamping circuit.		35	Concept of dc and ac load line and its use. Explanation of phase reversal of output voltage with respect to input Voltage.	input, and output impedance in a single stage CE amplifier circuit.
	15	1 st sessional exam			36	UNIT V: Construction, operation and characteristics of FETs and their applications	
6	16	Application of diode as half-wave, full wave and bridge rectifiers.	To observe input and output of negative clamping circuit	13	37	Construction, operation and characteristics of a MOSFET in depletion and enhancement modes and its applications	Plotting of V-I characteristics of FET.
	17	Peak Inverse Voltage, rectification efficiencies and ripple factor calculations			38	Comparison of JFET, MOSFET and BJT.	
	18	Shunt capacitor filter, series inductor filter, LC and π filters.			39	Assignment no. 3	
7	19	Types of diodes, characteristics, and applications of Zener diodes. Zener and avalanche breakdown	Fabrication of Half-wave rectifier circuit on breadboard and observe the output	14	40	Revision of chapter 4	VIVA-VOICE
	20	Introduction to Clipping and Clamping Circuits			41	Revision of chapter 5	
	21	UNIT III: Concept of a bipolar transistor, its structure, PNP and NPN transistors, their symbols and mechanism of current flow; Current relations in a transistor; concept of leakage current			42	3 rd sessional exam	

Lesson Plan Duration : JAN 2026 -MAY 2026 work Load (Lecture/ Practical) per week (in hours): 3 HOURS (Theory) + 04 HOURS (04 Hours*2 Groups) (PRACTICAL)		
Name of the Faculty: VF Discipline : Electronics and Communication Engg. Subject :EIM Semester : IInd		
Week	Theory	Practical
	Topic (including assignment/ test)	
1st	Introduction about subject	
	Syllabus of the subject	
2nd	Unit-1.Basics of measurements- Measurement, method of measurement, types of instruments	Measurement of voltage, resistance, current using analog multimeter
	Specifications of instruments Accuracy, precision	
	Specifications of instruments sensitivity, resolution, range, errors in measurement	
3rd	sources of errors, limiting errors,	Measurement of voltage, resistance, frequency using digital multimeter
	loading effect, importance and applications of standards and calibration	
	Class work/Assignment and revision.	
4th	Unit-2 .Voltage ,Current and Resistance Measurement- Principles of measurement of DC voltage	To study the front panel controls of CRO
	Principles of measurement of DC current	
	Principles of measurement of AC voltage	
5th	Principles of measurement of AC current	Measurement of voltage, frequency, time period and phase using CRO
	Principles of operation and construction of permanent magnet moving coil (PMMC) instruments	
	1st Sessional Test	
6th	Moving iron type instruments	Measurement of voltage, frequency, time and phase using DSO
	VOM meter	
	Class work and revision.	
7th	Unit-3. Cathod Ray Oscilloscope-Construction and working of Cathode Ray Tube(CRT)	Measurement of phase using lissajous pattern on CRO.
	Block diagram description of a basic CRO and triggered sweep oscilloscope	
	Front panel controls	
8th	Specifications of CRO and their applications	Measurement of unknown resistance using Wheat Stone bridge.
	Measurement of current, voltage, frequency using CRO	
	Measurement of time period and phase using CRO	
9th	lissajous pattern for phase measurement	Measurement of Q of a coil
	Digital storage oscilloscope (DSO): block diagram and working principle	
	Class work/Assignment and revision.	
10th	Unit-4.Impedance Bridge & Q Meter- Wheat stone bridge	Measurement of inductance using Hay's Bridge.
	AC bridges: Maxwell's induction bridge	
	2nd Sessional Test	
11th	Hay's bridge,	Measurement of inductance using Maxwell Induction Bridge.
	De-Sauty's bridge,	
	Block diagram and working principle of Q meter	
12th	Explanation of block diagram, specifications of low frequency generator	
	RF generators	Measurement of impedance using Maxwell Induction Bridge
	pulse generator, function generator	
13th	Unit-5.Digital Instruments- Comparison of analog and digital instruments	
	Block diagram and working of a digital multi-meter	Measurement of impedance using Maxwell Induction Bridge

	Revision	
14th	Applications and Limitations of digital multi-meters.	Measurement of capacitance using De Sauty's Bridge.
	Working principle of logic probe, logic pulser analyzer	
15th	Revision	Revision
	Revision	
	3rd Sessional Test	

Lesson Plan of 4th Semester

Lesson Plan Duration : JAN 2026 -MAY 2026 work Load (Lecture/ Practical) per week (in hours): 3 HOURS (Theory) + 04 HOURS (02 Hours*2 Groups) (PRACTICAL)							
Name of the Faculty: Dr. Pooja Malik Discipline : Electronics and Communication Engg. Subject :CS Semester : IV th							
Week	Theory		Practical	Week	Theory		Practical
	Lecture day	Topic (including assignment/ test)	Topic		Lecture day	Topic (including assignment/ test)	Topic
1	1	UNIT I: AM/FM Transmitters Introduction	To observe the waveforms at different stages of an AM low power transmitter.	8	22	folded dipole, patch, loop	To plot the radiation pattern of a directional and omni directional antenna
	2	Classification of transmitters on the basis of modulation, service, frequency and power			23	Ferrite rod Antenna	
	3	Block diagram of AM transmitters and working of each stage			24	Yagi antenna	
2	4	Block diagram and working principles of reactance FET	To observe the waveforms at different stages of a Radio Receive	9	25	dish antenna	VIVA -VOICE
	5	Armstrong FM transmitters.			26	UNIT IV Propagation, Introduction	
	6	Unit-II AM/FM Radio Receivers Introduction			27	Basic idea about different modes of wave propagation and typical areas of application	
3	7	Principle and working with block diagram of super heterodyne AM receiver	VIVA - VOICE	10	28	Assignment no. 2	To plot the variation of field strength of a radiated wave, with distance from a transmitting antenna
	8	Performance characteristics of a radio receiver: sensitivity, selectivity, fidelity			29	Revision of chapter 3	
	9	S/N ratio, image rejection ratio and their measurement procedure.			30	2nd sessional exam	
4	10	Concepts of simple and delayed AGC.	To align AM broadcast radio receiver.	11	31	Ground wave propagation and its characteristics	To study and rectify different faults in a broadcast radio receiver.
	11	Block diagram of an FM receiver			32	Space wave communication – line of sight propagation, standard atmosphere	
	12	Assignment no. 1			33	Structure of standard atmosphere	
5	13	Revision of chapter 1	To align the dish antenna.	12	34	Sky wave propagation -	VIVA -VOICE

						ionosphere and its layers. Explanation of terms - virtual height, critical frequency	
	14	Revision of chapter 2			35	skip distance, maximum usable frequency, multiple hop propagation.	
	15	1st sessional exam			36	UNIT V Satellite Communication Introduction	
6	16	UNIT III: Antenna Electromagnetic spectrum and its various ranges: VLF, LF, MF, HF, VHF, UHF, Microwave	VIVA - VOICE	13	37	Basic idea, passive and active satellites,	VIVA - VOICE
	17	Physical concept of radiation of electromagnetic energy from a dipole			38	Meaning of the terms; orbit, apogee, perigee	
	18	Concept of polarization of EM Waves.			39	Geo-stationary satellite and its need. Block diagram and explanation of a satellite communication link.	
7	19	Definition and physical concepts of the terms used with antennas like point source, gain directivity, aperture, effective area,	To identify and study the various types of antennas used in different frequency ranges.	14	40	Introduction to VSAT and its features.	VIVA - VOICE
	20	Radiation pattern, beam width and radiation resistance, loss resistance.			41	Assignment No. 3	
	21	- Types of antennas- brief description, characteristics and typical applications of half wave dipole			42	3 rd sessional exam	

Specimen of lesson Plan Duration: Jan-May-2026							
Name of the Faculty: Dr. Sandeep Goel							
Discipline: Electronics and Communication Engg.				Subject: POWER ELECTRONICS		Semester: IV th	
Work Load (Lecture/Practical) per week (in hours): 03 HOURS (Theory) + 08 HOURS (04 Hours * 2 Groups) (PRACTICAL)							
Week	Theory		Practical	Week	Theory		Practical
	Lecture day	Topic (including assignment/test)	Topic		Lecture day	Topic (including assignment/test)	Topic
1 st	1	Introduction to thyristors and other Power Electronics Devices	Top plot V-I characteristic of SCR.	10 th	28	Introduction, types & basic working principle of dual converters	Viva
	2	Role of Power electronics			29	Introduction, types & basic working principle of cycloconverters	
	3	Construction, working principles of SCR			30	their applications.	
2 nd	4	two transistor analogy of SCR, V-I characteristics of SCR.	Top plot V-I characteristics of TRIAC.	11 th	31	2 nd Sessional Test	To observe wave shapes and measurement of voltage at relevant points in TRIAC based AC phase control circuit for .
	5	SCR specifications & ratings			32	Discussion about 2 nd sessional	
	6	$\frac{di}{dt}$ & $\frac{dv}{dt}$ protection of SCR			33	Thyristorised Control of Electric drives	
3 rd	7	Different methods of SCR triggering. Different commutation circuits for SCR.	Top plot V-I characteristics of UJT.	12 th	34	DC drive control	To observe output wave shape in a circuit for single phase full wave controlled rectifier.
	8	Construction & working principle of DIAC, TRIAC and their V-I characteristics.			35	Half wave drives, Full wave drives	
	9	Construction, working principle of UJT, V-I characteristics of UJT			36	Chopper drives (Speed control of DC motor using choppers)	
4 th	10	UJT as relaxation oscillator.	Revision	13 th	37	AC drive control	To study installation of UPS system and routine maintenance of batteries.
	11	Basic idea about the selection of Heat sink for thyristors.			38	Phase control, Constant V / Operation	
	12	Applications such as light intensity control			39	Cycloconverter,	
5 th	13	speed control of universal motors,	Viva	14 th	40	Uninterrupted Power supplies	Revision
	14	fan regulator, battery charger.			41	Inverter drives.	
	15	Controlled Rectifiers			42	UPS, on-line,	
6 th	16	1 st Sessional Test	Top plot V-I characteristics of DIAC.	15 th	43	offline & its specifications	Visit to any Solar Power Plant.
	17	Single phase half wave controlled rectifier with load (R, R-L)			44	Concept of high voltage DC transmission	
	18	Single phase half controlled full wave rectifier (R, R-L)			45	Classification of batteries	
7 th	19	Single phase fully controlled full wave bridge rectifier.	To study UJT relaxation oscillator and observed different wave forms	16 th	46	REVISION	Revision
	20	Single phase full wave center tap rectifier.			47	REVISION	
	21	Inverters, Choppers, Dual Converters and Cycloconverters.			48	REVISION	
8 th	22	Principle of operation of basic inverter circuits,	To observe wave shapes at relevant points of single-phase half wave controlled rectifier and effect of change of firing angle.	17 th	49	REVISION	Viva
	23	concept of duty cycle			50	REVISION	
	24	series & parallel, inverters & their applications.			51	3 rd Sessional Test	
9 th	25	Choppers: Introduction, types of choppers (Class A, Class B, Class C and Class D)	Revision				
	26	Step up and step down choppers.					
	27	Dual Converters and cycloconverters:					

Lesson Plan Duration : JAN 2026 -MAY 2026 work Load (Lecture/ Practical) per week (in hours): 3 HOURS (Theory) + 08 HOURS (04 Hours*2 Groups) (PRACTICAL)

Name of the Faculty: Dr. Inderjeet Singh Dhindsa Discipline : Electronics and Communication Engg. Subject: MP&MC Semester : IVth

Week	Theory		Practical	Week	Theory		Practical
	Lecture day	Topic (including assignment/ test)	Topic		Lecture day	Topic (including assignment/ test)	Topic
1	1	UNIT I: Introduction to Microprocessors and Microcontrollers, Basic Introduction and comparison of Microcomputer, Microprocessor, and Microcontroller	Understand 8051 development board	8	22	Modes of serial communication	Viva- Voice
	2	Selection of Microcontroller, Introduction to 8051- History			23	8051 connection to RS232	
	3	Architecture, Pin Diagram of 8051			24	Interrupts	
2	4	Crystal Circuit, Reseat Circuit	Generating Hex File using Keil Compiler	9	25	Assignment no. 2	Programming for A/D converter, result on LCD
	5	UNIT II: Different Types of Programming languages for 8051, Advantages of Programming in C			26	Revision of chapter 3	
	6	Addressing Modes			27	Revision of chapter 4	
3	7	Instruction Set of 8051	Viva- Voice	10	28	2 nd Sessional Exam	Viva- Voice
	8	Types of Instructions			29	UNIT V: Real World Interfacing with 8051	
	9	Data types and time delay in 8051			30	I/O Interfacing – LED	
4	10	I/O programming in 8051 C	Programming and interfacing of RELAY and Buzzer	11	31	Interfacing with LCD	Programming for D/A converter, result on LCD
	11	Hex file generation using Keil Compiler			32	Keyboard Interfacing	
	12	Assignment no. 1			33	ADC Interfacing	
5	13	Revision of chapter 1 and 2	Programming to interface switches and LEDs	12	34	DAC Interfacing	Interfacing Stepper Motor with 8051.
	14	Revision of 1 st sessional exam			35	Sensor Interfacing	
	15	1 st sessional exam			36	Signal Conditioning	
6	16	UNIT III: Timers and Registers of 8051	Viva- Voice	13	37	Revision of chapter 5	Interfacing different sensors with 8051.
	17	Timer / Counter logic and modes			38	Assignment No. 3	
	18	Programming of 8051 timers			39	Revision of 3 rd Sessional Exam	
7	19	Programming Timer 1 using C	Programming and interfacing of LCD	14	40	3 rd Sessional exam	VIVA-VOICE
	20	UNIT IV: Serial Port of			41	Revision	

		8051 –Basics of serial communication					
	21	Serial Communication-SCON, SBUF			42	Revision	

Lesson Plan of 6th Semester

Lesson Plan			
Name of the Faculty :		Dr. Adish Bindal /Dr Pooja malik	
Discipline:		Electronics & Communication Engg.	
Semester :		6th	
Subject :-		MICROWAVE AND RADAR ENGG.	
Lesson Plan Duration :		JAN 2026 -MAY 2026	
Work Load (Lecture/Practical)per week (in hours): 04 HOURS (Lecture) 04Hours per Group (PRACTICAL)			
Week	Theory		Practical
	Lecture	Topic (including assignment /test)	Topic
1st	1	Introduction to microwaves and its	General idea’s for lab Equipment’s
	2	Introduction to microwaves and its	
	3	Classification on the basis of its frequency	
	4	QUIZ	
2nd	5	Construction, characteristics, operating	To measure the electronics and mechanical tuning range of a reflex klystron
	6	Reflex klystron	
	7	Multi-cavity magnetron	
	8	Traveling wave tube	
3rd	9	Gunn diode	To measure the electronics and mechanical tuning range of a reflex klystron
	10	Impatt diode	
	11	Assignment/Quiz	
	12	Revision	
4th	13	Revision	To measure VSWR of a given load.
	14	Revision	
	15	Application of Microwave	
	16	QUIZ	
5th	17	1st Sessional Test	To measure VSWR of a given load.
	18	Wave guides	
	19	Rectangular and circular wave guides and	
	20	Rectangular and circular wave guides and	
6th	21	Mode of wave guide	To measure the Klystron frequency by slotted section method
	22	Propagation constant of a rectangular wave	
	23	cut off wavelength	
	24	Guide wavelength and their relationship with	
7th	25	Impossibility of TEM mode in a wave guide.	To measure the Klystron frequency by slotted section method
	26	Revision	
	27	Assignment	
	28	Microwave Components	
8th	29	Constructional features, characteristics and	Revision
	30	Bends, matched termination, twists	
	31	Circulator and duplex, coaxial to wave guide	
	32	Detector, mount, slotted section	
9th	33	Directional coupler, fixed and variable	To measure the directivity and coupling of a directional coupler.
	34	Isolator	
	35	Horn antenna	
	36	Revision	
10th	37	2nd Sessional Test	To measure the directivity and coupling of a directional coupler.
	38	2nd Sessional Test Revision	
	39	Microwave Communication system	
	40	Block diagram and working principles of	

11th	41	Block diagram and working principles of	To plot radiation pattern of a horn antenna in horizontal and vertical planes.
	42	Layers of ionosphere	
	43	Troposcatter Communication-basic idea	
	44	Revision	
12th	45	Radar Systems(Introduction to radar)	To plot radiation pattern of a horn antenna in horizontal and vertical planes.
	46	Radar various applications,	
	47	Radar range equation and its applications	
	48	Block diagram and operating principles of	
13th	49	Concepts of ambiguous range	To verify the properties of H Plane /E Plane tee.
	50	Radar area of cross-section and its	
	51	Assignment	
	52	Block diagram and operating principles of CW	
14th	53	FMCW radars, and their applications.	To verify the properties of H Plane /E Plane tee.
	54	Block diagram and operating principles of	
	55	Radar display- PPI	
	56	Revision	
15th	57	3rd Sessional Test	To verify the properties of magic tee.
	58	Discussion of 3rd Sessional Test	
	59	Quiz	
	60	Revision	
16th	61	Revision	To verify the properties of magic tee.
	62	Quiz	
	63	Revision	
	64	Revision	
17th	65	Revision	Revision/Viva
	66	Quiz	
	67	Revision	
	68	Revision	

Name of the Faculty : Sh. Ravinder Singh Punia
Discipline : Electronics and Communication Engg.
Semester : VIth
Subject : MAINTENANCE OF COMPUTER SYSTEM
Lesson Plan Duration : Jan 2026-May 2026
Work Load (Lecture/ Practical) per week (in hours): 02 HOURS (Lecture) 02 Hours per Group (PRACTICAL)

Week	Theory		Practical
	Lecture day	Topic (including assignment/ test)	Topic
1 st	1	Introduction about subject	Introduction about Practicals of MOCS
	2	Introduction to different type of mother boards,	
2 nd	3	Single Board Based System, Block diagram of motherboard	Operation, Maintenance, Installation and Testing of Monitors (LCD and LED)
	4	Installation of Computer System	
3 rd	5	Different type of Buses PCI, SCSI	HDD, Partitioning and Formatting
	6	Serial and Parallel ports (COM ports) Ports COM 1, LPT1	
4 th	7	Principle and construction of Hard Disk Drive (HDD). Hard Disk Controller	Inkjet Printer
	8	Pen Drives, common faults with hard disk drive, RAM Module	
5 th	9	SSD USB. RS 232 C, HDMI	Laser Printer
	10	1st Sessional Test	
6 th	11	Block Diagram of keyboard Controller, keyboard types and faults,	Mother board based on latest microprocessor and chipset CMOS Set up.
	12	Types of mouse and its common faults	
7 th	13	Introduction to scanner, digitizer and webcam	SSD
	14	Block Diagram of display devices,	
8 th	15	Principle of operation of Computer Monitor	Network Connectors and Cables
	16	Video display Adaptors	
9 th	17	Types of display.	Network Connectors and Cables
	18	Printing Mechanism	
10 th	19	Construction and working principles of Inkjet Printer	ROUTER AND SWITCH
	20	2nd Sessional Test	
11 th	21	Laser Printer,	ROUTER AND SWITCH

	22	Thermal printer,	
12th	23	Interfacing of PC with printer	Installation of any operating system.
	24	Introduction to networking devices	
13th	25	Idea about LAN	Installation of any operating system.
	26	WAN,	
14th	27	Wi-Fi	Establish LAN,WLAN, using Networking Devices
	28	ROUTER	
15th	29	SWITCH and HUB	Establish LAN,WLAN, using Networking Devices
	30	3rd Sessional Test	

Govt. Polytechnic, Ambala City

Lesson Plan

Name of the Faculty : Deepender Gill

Department : ECE

Semester : 6th

Subject : Computer Networks

Lesson Plan Duration : 15 weeks (Jan 2026- May 2026)

****Work load (Lecture / Practical) per week(in hours): Lectures-03, Practicals -04**

Week	Theory		Practical	
	Day	Topics to be covered	Day	Experiment to be performed
1st	1st	Networks Basics, Concept of network Models of network computing	1st	Recognize the physical topology of a network Recognize the cabling (coaxial, OFC, UTP, STP) of a network.
	2nd	Network Models Peer-to-peer Network Server Client Network		
	3rd	Network Services, Topologies		
2nd	1st	Switching Techniques	2nd	Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST.
	2nd	OSI Reference Model		
	3rd	Layered Architecture, TCP/IP Model introduction		
3rd	1st	Function of various layers in TCP/IP Model	3rd	Making of cross cable. Making of straight cable.
	2nd	Comparison OSI and TCP/IP Model		
	3rd	Revision		
4th	1st	Concept of Physical and Logical addressing	4th	Install and configure a network interface card in a workstation.
	2nd	IPv4 addressers- Address space, Notations		
	3rd	Classful Addressing, Classless Addressing, Network Address Translation		
5th	1st	Classless addressing, Special IP addresses	5th	Practical file checking and viva-voce
	2nd	Sub netting and Supernetting		
	3rd	Loop back concept, Network address translation		
6th	1st	IPv4 packet Format	6th	Identify the IP address of a workstation and the class of the address. Configure the IP address of workstation.
	2nd	IPv6 packet Format		
	3rd	Comparison IP4 and IP6		

7th	1st	Ethernet specification and standardization	7th	Managing user accounts in windows
	2nd	10 Mbps (Traditional Ethernet)		
	3rd	10 Mbps (Fast Ethernet)		
8th	1st	Gigabit Internet, Introduction to Media Connectivity	8th	Sharing of hardware resources in a network.
	2nd	Leased lines, ISDN, DSL		
	3rd	Network connectivity Devices		
9th	1st	NICs	9th	Use of Netstat and its options.
	2nd	Hubs, Switches, Routers		
	3rd	Repeaters, Modems, Gateways		
10th	1st	Configuration of Routers and Switches	10th	Practical file checking and viva-voce .
	2nd	Network Security, Cryptography, Secure Protocols		
	3rd	Trouble Shooting Tools: PING, IPCONFIG		
11th	1st	IFCONFIG, NETSTAT, TRACEROUT	11th	Connectivity troubleshooting using PING, IPCONFIG
	2nd	Wireshark, Nmap, TCDUMP, ROUTEPRINT		
	3rd	DHCP Server		
12th	1st	Workgroup/ Domain Networking	12th	Connectivity troubleshooting using IFCONFIG
	2nd	Revision		
	3rd	Introduction to wireless networks, IEEE802.11		
13th	1st	Wi-Fi, Li-Fi	13th	Installation of Network Operating System(NOS)
	2nd	Wireless Security		
	3rd	Bluetooth architecture and application		
14th	1st	Cloud Computing, Definition and advantages	14th	Demonstration of Cloud Computing in Labs or using Online Videos.
	2nd	Service Model SaaS, PaaS		
	3rd	IaaS		
15th	1st	Deployment: Private and Public Cloud	15th	Practical file checking and viva-voce .
	2nd	Hybrid Cloud, Community Cloud		
	3rd	Revision		