

Specimen of lesson Plan

Name of the Faculty : Miss Poonam
Discipline : Electronics and Communication Engg.
Semester : IInd
Subject : Basic Electronics
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecture)02 Hours per Group (PRACTICAL)

1 week	1st lecture	Review of Atomic Structure and energy levels,concept of insulators conductors	Familiarization with operation of Multimeter ,CRO
	2nd lecture	semi conductors,Atomic structure of Ge & Si,Covalent bonds,intrinsic & extrinsic semiconductor	
	3rd lecture	P & N type impurities& semi conductors,doping,	
2 week	1st lecture	effect of temperature on conductivity of intrinsic semi conductor	Regulated Power Supply
	2nd lecture	energy level diagram of conductors ,insulators & semi conductors,minority & majority carrier	
	3rd lecture	PN Junction Diode, Drift & Diffusion current,depletion layer	
3 week	1st lecture	Forward & Reverse bias junction	Signal Generator
	2nd lecture	Potential barrier ,junction capacitance	
	3rd lecture	VI Vharacteristics ,static & Dynamic resistance	
4 week	1st lecture	Half wave rectifier & Full wave rectifier	Plot VI Characteristics for PN diode
	2nd lecture	bridge rectifier ,PIV,Rectification efficiency	
	3rd lecture	ripple factor,shunt filter	
5 week	1st lecture	capacitor filter,series inductor filter	Plot VI Characteristics for Zener diode
	2nd lecture	LC filter & RC filter	
	3rd lecture	Zener Diode,varactor diode	
6 week	1st lecture	Photo Diode,LED ,LCD	observe the wave shape of Half Wave rectifier ,full wave rectifier
	2nd lecture	Characteristics of Zener diode	
	3rd lecture	Zener Breakdown & avalanche breakdown	
7 week	1st lecture	Bipolar transistor operation ,PNP & NPN symbols	observe the wave shape of bridge rectifier
	2nd lecture	Current relation in transistor,concept of leakage current	
	3rd lecture	CB,CE & CC configuration	
8 week	1st lecture	Input & Output characteristics in CB & CE	Plot wave shapes of shunt rectifier & series rectifier
	2nd lecture	Input & Output dynamic resistance in CB & CE	
	3rd lecture	current amplification factors	
9 week	1st lecture	comparison of CB,CE & CC	Plot Input & Output characteritics of CE Configuartion
	2nd lecture	Transistor as amplifier	
	3rd lecture	DC Load Line	
10 week	1st lecture	Transistor biasing & Opearting point	Plot Input & Output characteritics of CB Configuartion
	2nd lecture	Need for stablization of Operating point	
	3rd lecture	Different types of Biasing circuits	
11 week	1st lecture	Different types of Biasing circuits	Measure the Q-point & note variation by increasing base resistance in fixed bias circuit
	2nd lecture	Single stage transistor amplifier circuit	
	3rd lecture	ac load line,calculation of current	
12 week	1st lecture	voltage gain of single stage amplifier circuit	Measure the Q-point & note variation by changong out of bias resistance in potential divider circuit
	2nd lecture	h-parameters and their significance	
	3rd lecture	calculation of current gain,voltage gain	
13 week	1st lecture	input and putput impedance using h parameter	Measure voltage gain, input impedance in single stage CE amplifier circuit
	2nd lecture	construction ,operation of MOSFET	
	3rd lecture	characteristics of MOSFET	
14 week	1st lecture	depletion mode Mosfet	Measure output impedance in single stage CE amplifier circuit
	2nd lecture	Enhancement mode MOSFET	
	3rd lecture	CMOS advantages & applications	
15 week	1st lecture	Comparison of JFET ,MOSFET & BJT	Plot VI Charactersitics of FET Amplifier
	2nd lecture	FET amplifier circuit & its working principle	
	3rd lecture	Fet Characteristics & Applications	

Specimen of lesson Plan

Name of the Faculty : Sh.Punjab Singh
Discipline : Electronics and Communication Engg.
Semester : IInd
Subject : BASIC ELECTRICAL ENGINEERING
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecturer) 03 Hours per Group (PRACTICAL)

Week	Theory		Practical	Topic
	Lecturer	Topic Covered		
1st week	1	Introduction to Resistance, capacitor, Inductance	1st	Operation and Use of Measuring Instruments Voltmeter, Ammeter, CRO, Wattmeter, Multimeter
	2	Introduction to Current, Potential Difference, Voltage		
	3	KCL And KVL		
2nd	1	Simple problems on KCL and KVL	2nd	Determination of Voltage and Current Relationship in DC Ckt
	2	Resistance, Capacitors Series and Parallel combination		
	3	Numerical Problems on series and parallel combination		
3rd	1	Star and Delta Connections	3rd	Measurement of Resistance of Ammeter and Voltmeter
	2	Assignment on First unit		
	3	Thevenin's Theorem		
4th	1	Norton's Theorem	4th	Viva and File Checking
	2	Numerical discuss on the basis of Above theorem		
	3	Numerical discuss on the basis of Above theorem		
5th	1	Superposition Theorem	5th	Verification of Thevenin theorem
	2	Maximum Power Transfer Theorem		
	3	Numerical discuss on the basis of Above theorem		
6th	1	Assignment on Second unit	6th	Verification of Norton theorem
	2	Concept of voltage source, Symbol, Graphical Representation		
	3	Concept of Current source, Symbol, Graphical Representation		
7th	1	First Sessional * Electromagnetic Field * Magneto motive Force * Flux * Reluctance * Permeability Analogy between Electric and Magnetic Circuit	7th	Change in resistance of a bulb in hot and cold conditions
	2	Faraday' laws of electro-magnetic Induction		
	3	Self and Mutual Induction Numericals Problems		
8th	1	Current Growth, decay, Time constant in RL Circuit	8th	Verification of KCL and KVL
	2	* Storage of energy in inductor		
	3	* series and parallel combination of inductors Assignments		
9th	1	*Introduction to Primary and secondary Cell	9th	Viva and File Checking
	2	* Construction and working of Lead Acid Battery * Construction and working of Nickel-Cadmium Battery * Construction and working of Silver - Oxide Battery *Care and Maintenance of Lead -Acid Battery		
	3	* Repeat of Batteries Discussed		
10th	1	* Charging method for Lead Acid Battery	10th	To find the ration of inductance of coil having air -core and iron core
	2	Series and Parallel Connections of battery general Idea of Solar cell, Solar panel and applications		
	3	Maintenance of Batteries		
11th	1	Sessional Introduction	11th	Charging and testing of a lead acid storage battery
	2	* AC * DC * Difference Between AC and DC Concepts of		
	3	* Cycle * Frequency * Time period		

		* Amplitude * Average Value		
13th	1	<ul style="list-style-type: none"> Concepts of * Instantaneous Value * R.M.S value * Maximum Value * Form Factor 	12th	Measurement of power and power factor in a single phase RLC Ckt
	2	<ul style="list-style-type: none"> * Concept of Peak Factor * Representation of Sinusoidal quantities by phasor diagram 		
	3	<ul style="list-style-type: none"> * Equation of Sinusoidal wave form, its derivation 		
14th	1	<ul style="list-style-type: none"> * Alternating voltage Applied to >Pure Resistance >Pure Inductance >Pure Capacitance 	13th	Viva-voice
	2	<ul style="list-style-type: none"> Concepts of * Inductive Reactance * Capacitive Reactance * Voltage applied to RL Ckt * Voltage Applied to RC Ckt 		
	3	<ul style="list-style-type: none"> * Series and Parallel Resonance * Power in >Pure Resistance >Pure Inductance >Pure Capacitance 		
15th	1	<ul style="list-style-type: none"> * Power in Combined Ckts * Active and Reactive Power * Power factor 	14th	file checking
	2	<ul style="list-style-type: none"> * Concepts of >Conductance & Units >Susceptance & Units 		
	3	<ul style="list-style-type: none"> >Admittance & Units >Impedance & Units 		

Specimen of lesson Plan

Name of the Faculty : Smt. Shalini Garg
Discipline : Electronics and Communication Engg.
Semester : IVth
Subject : Network Filter And Transmission Lines
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecture) 03 Hours per Group (PRACTICAL)

Week	Theory		Practical
	Lecturer	Topic Covered	
1st week	1st	* Introduction to Two Port network Basic concepts of * Symmetrical and Asymmetrical network * Balanced and Unbalanced network	To measure Characteristic impedance of Symmetrical T and π Network
		Basic concepts of * T and π network * Ladder Network * Lattice Network * L- Network and Bridge Network	
	3rd	* Detailed study of Symmetrical T and π Network * Characteristic Impedance * propagation Constant	
2nd week	1st	Detailed study of Symmetrical T and π Network * Attenuation Constant * Phase Shift Constant * Insertion loss	To measure Characteristic impedance of asymmetrical T and π Network
	2nd	Detailed study of asymmetrical T and π Network * Iterative Impedance * Image impedance	
	3rd	Detailed study of asymmetrical T and π Network * Image transfer Constant * Iterative Transfer Constant * Half Section of T and π Network	
3rd week	1st	* Assignment * Introduction to Attenuators * Unit and Characteristics of attenuators	To measure Attenuation of T and π type Attenuator
	2nd	* Designing of simple T and π type of attenuators	
	3rd	Simple Problems	
4th week	1st	* Ist sessional	File checking and Viva-voice
	2nd	* Introduction to Filter	
	3rd	use of Filter in communication	
5th week	1st	* Types of Filters * Low Pass and High pass Filter	To plot a graph of Characteristic impedance and Attenuation Characteristic of proto type low Pass filter
	2nd	* Band Pass Filter * Band Stop filter	
	3rd	* Introduction to proto Type Filter	
6th week	1st	* Discussion between prototype Low pass and high pass	To plot a graph of Characteristic impedance and Attenuation Characteristic of proto type High Pass filter
	2nd	* Derivation of Cut off frequency of Low pass proto type filter	
	3rd	* Plot of Graph between Characteristic Impedance and	
7th week	1st	* Discussion repeat on Low pass Proto type Filter	File checking
	2nd	* Derivation of Cut off frequency of High pass proto type	
	3rd	* Plot of Graph between Characteristic Impedance and	
8th week	1st	* 2nd Sessional	File checking and Viva-voice
	2nd	Plot of graph between * Attenuation Vs frequency * Phase shift vs Frequency	
	3rd	Simple Problems	

Week	Theory	Topic
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Week	Lecturer	Topic Covered	Topic
9th week	1st	*Limitations of prototype Filter * need of Mderived Filter	To plot a graph of Characteristic impedance and Attenuation Characteristic of proto type band Pass filter
	2nd	* Introduction to M-Derived Filter	
	3rd	* Diagram of Low Pass and High Pass Mderived Filter	
10th week	1st	* Introduction to Crystal Filter * Circuit and Properties of piezo electric Filter	To Draw attenuation Characteristic of crystal filter
	2nd	* uses of piezo electric Filter * Basic Concepts of Active Filter	
	3rd	Camparison between Active and Passive Filter	
11 week	1st	Assignment	To plot imdedence Characteristic of m derived low pass filter
	2nd	Sessional	
	3rd	Introducation to Transmission lines and types Applications	
12 week	1st	Discussion of Primary and Secondary Constant	To plot imdedence Characteristic of m derived high pass filter
	2nd	Discussion of * Characteristic Impedence * propagation Constant *Attenuation constant	
	3rd	* Phase Shift Constant * Concepts of infinite line	
13th week	1st	* Introducation to loading methods	Viva-voice
	2nd	*Condition of Minimum Distortion	
	3rd	*Concepts of standing waves	
14th week	1st	*Reflection Coefficient	Measurement of SWR and characteristic impedance of line
	2nd	*Relation Between SWR and reflection coefficient	
	3rd	*Transmission line equation	
15th week	1st	*Expression to find Voltage,Current, Impedence at a	File checking
	2nd	*Transmiision lines at high frequency	
	3rd	* Introduction to stubs	

Third Sessional

Lesson Plan(Jan-April 2018)

Name of Faculty : Ms. Sumitra Sangwan

Program : Electronics and Communication Engg.

Subject:Wireless and Mobile Communications

Semester - 6th

Work Load(Lecture/Practical)per week : 04hrs(lecture),03hrs per group(practical)

Week No	Lecture No	THEORY	PRACTICAL
1 week	1st lecture	Introduction about the subject	Introduction about the subject practicals
	2nd lecture	Basics of wireless communication	
	3rd lecture	advantages of wireless communication	
	4th lecture	Electromagnetic waves	
2 week	1st lecture	frequency spectrum used	study the features,specifications and working of cellular mobile
	2nd lecture	Paging system	
	3rd lecture	Cordless Telephone System	
	4th lecture	Cellular telephone system	
3 week	1st lecture	Comparision of paging, cordless and cellular telephone system	study the features,specifications and working of cellular mobile
	2nd lecture	First generation of cellular systems	
	3rd lecture	second generation of cellular systems	
	4th lecture	third generation of cellular systems	
4 week	1st lecture	Fourth generation of cellular systems	signal strength measurement at variouspoints from transmitting antenna
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	cellular concept	
5 week	1st lecture	cell area	signal strength measurement at variouspoints from transmitting antenna
	2nd lecture	capacity of cell	
	3rd lecture	frequency reuse	
	4th lecture	1st Sessional	
6 week	1st lecture	cochannel interference	visit to MSC
	2nd lecture	adjacent channel interference	
	3rd lecture	Power control for reducing interference	
	4th lecture	cell splitting	
7 week	1st lecture	cell sectoring	demonstration of BTS with nearby cellular tower
	2nd lecture	repeaters for range extension	
	3rd lecture	Introduction to multiple access tehniques	
	4th lecture	Frequency Division Multiple Access	
8 week	1st lecture	Time Division Multiple Access	demonstration of BTS with nearby cellular tower
	2nd lecture	Code Division Multiple Access	
	3rd lecture	Spread Spectrum Multiple Access	
	4th lecture	Frequency Hopping Spread Spectrum	
9 week	1st lecture	Space Division Multiple Access	Revision and viva
	2nd lecture	Comparision of FDMA/TDMA/CDMA	
	3rd lecture	REVISION	
	4th lecture	REVISION	
10 week	1st lecture	Intoduction to GSM	Revision and viva
	2nd lecture	GSM architecture	
	3rd lecture	GSM architecture	
	4th lecture	2nd Sessional	
11 week	1st lecture	GSM services	call processing of GSM Trainer kit
	2nd lecture	Introduction to CDMA	
	3rd lecture	Comparisionof GSM and CDMA	
	4th lecture	Introducton to GPRS System	
12 week	1st lecture	Introducton to GPS System	call processing of CDMA Trainer kit
	2nd lecture	Introducton to Bluetooth	
	3rd lecture	Introducton to Wi-Fi	
	4th lecture	Introduction to communication system	
13 week	1st lecture	digital and analog communication system .	pairing of two devices using bluetooth
	2nd lecture	Block diagram of digital data communication system	
	3rd lecture	Comparision of digital and analog data communication systems	
	4th lecture	Series and parallel transmission	
14 week	1st lecture	REVISION	Data Transfer using Wi-Fi
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	REVISION	
15 week	1st lecture	REVISION	Revision and viva
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	3rd Sessional	

Specimen of lesson Plan

Name of the Faculty : Sh. Punjab singh
 Discipline : Electronics and Communication Engg.
 Semester : IVth
 Subject : Instrumentation
 Lesson Plan Duration : Jan-Apr-2018
 Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecture)03 Hours per Group (PRACTICAL)

Week	Theory		Practical Topic
	Lecture day	Topic (including assignment/ test)	
1 st	1	Introduction about subject	Introduction about Practical Instrumentation
	2	Measurements: Importance of measurement, basic measuring systems.	
	3	Advantages and limitations of each measuring system.	
2 nd	4	Display devices	To measure the level of a liquid using a transducer
	5	Theory of Transducers: construction and use of various transducers	
	6	Resistive transducers and wire wound potentiometer.	
3 rd	7	Capacitive transducers	To measure temperature using a thermo-couple
	8	Inductive transducers	
	9	Electromagnetic, piezo electric type transducer.	
4 th	10	Measurement of Displacement and Strain: LVDT and RVDT transducer.	Study and use of digital temperature controller
	11	Strain gauges and Gauge factor, gauge materials and their selections.	
	12	Use of electrical strain gauges their different types such as inductance type resistive type, wire and foil type etc.	
5 th	13	Strain gauge bridges and amplifiers.	Use of themistor in ON/OFF transducer
	14	Revision	
	15	Revision	
6 th	16	1st Sessional Test	Study of variable capacitive transducer
	17	Force Measurement: Different types of force measuring devices and their principles	
	18	Load cells	
7 th	19	load measurements by using elastic transducers and electrical strain gauges.	Draw the characteristics of a potentiometer
	20	Torque Measurement: Different types of torque measurement methods.	
	21	Measurements of torque by brake and dynamometer.	
8 th	22	Speed measurements; different methods, devices.	To measure linear displacement using LVDT
	23	Pressure Measurement	
	24	Bourdon pressure gauges	
9 th	25	Electrical pressure pickups and their principle construction and applications.	To study the use of electrical strain gauge
	26	Low pressure measurements and Use of pressure cells.	
	27	Revision	
10 th	28	Revision	To study weighing machine using load cell
	29	2nd Sessional Test	
	30	Flow Measurement: Basic principles of magnetic flow meters.	
11 th	31	Ultrasonic flow meters	To study pH meter.
	32	Measurement of Temperature: Bimetallic thermometer.	
	33	Resistance thermometers	
12 th	34	Thermistors	Revision & Viva
	35	Thermocouple	
	36	Pyrometer	
13 th	37	Temperature recorders	Revision & Viva
	38	Measurement of other non electrical quantities such as humidity measurements.	
	39	pH value measurements	
14 th	40	Level measurements	Revision & Viva
	41	Vibrations measurements	
	42	Revision	
15 th	43	Revision	Revision & Viva
	44	Revision	
	45	3rd Sessional Test	

* At least Three Assignment covering substantial portion of syllabus to be given.

Specimen of lesson Plan

Name of the Faculty : Ms Poonam
Discipline : Electronics and Communication Engg.
Semester : IVth
Subject : DIGITAL ELECTRONICS - II
Lesson Plan Duration : Jan-Apr-2018

Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecture)03 Hours per C

2 week	1st lecture	Propagation Delay,Speed,Noise margin,Logic Levels
	2nd lecture	Power Dissipation,Fan-in,Fan-out,Power Supply requirements
	3rd lecture	Open Collector and totem pole circuits
3 week	1st lecture	Operation of TTL
	2nd lecture	CMOS NAND & NOR Gates
	3rd lecture	Tristate Devices ,Tri-state Buffer
4 week	1st lecture	Tri State Inverter Circuits
	2nd lecture	D/A Converter: Performance Characteristics
	3rd lecture	Binary Resistor Network & Ladder Network Method
4 week	1st lecture	A/D Converter: Performance Characteristics
	2nd lecture	Single slope & Dual Slope convereter
	3rd lecture	Successive Approximation & Parallel A/D
5 week	1st lecture	Memory Organisation & Classification
	2nd lecture	ROM ,PROM & DROM
	3rd lecture	EPROM & EEPROM
6 week	1st lecture	RAM & Expansion of Memory
	2nd lecture	CCD Memories & CAM
	3rd lecture	Programmable Logic Devices,PROM at PLD
7 week	1st lecture	Programmable Logic Array
	2nd lecture	Programmable Array Logic
	3rd lecture	FPGA & Familiarisation with common IC's
8 week	1st lecture	Minimization of Boolean Expression
	2nd lecture	Quine Mcclaaskey Method
	3rd lecture	Practice of Quine Mcclaaskey Method
9 week	1st lecture	Essential Componets of Sequential Circuits
	2nd lecture	Synchronous circuits
	3rd lecture	Asynchronous Circuits
10 week	1st lecture	Meelay Machine
	2nd lecture	Moore Machine
	3rd lecture	Design of Counters using S-R Flip Flop
	1st lecture	Design of Counters using S-R Flip Flop

11 week	2nd lecture	Design of Counters using J-K Flip Flop
	3rd lecture	Design of Counters using J-K Flip Flop
12 week	1st lecture	Basic Idea of ALU IC 74181
	2nd lecture	ALU Applications
	3rd lecture	Binary Division & Binary Multiplication
13 week	1st lecture	Binary Subtraction & Addition
	2nd lecture	Fuzzy Sets Basic Introduction
	3rd lecture	Classical Sets
14 week	1st lecture	Classical Set Operations
	2nd lecture	Fuzzy relations
	3rd lecture	Properties of Membership Functions
15 week	1st lecture	Fuzzification
	2nd lecture	Defuzzification
	3rd lecture	Fuzzy Control System

Group (PRACTICAL)

IC's familirization
IC's familirization
Verify Operation of D/A Converter
Verify Operation of A/D Converter
Familiarity with the use of EPROM & UV Index
Verify writing & Reading Operation of RAM IC
Exercise on programming of EPROM
Exercise on programming of EPROM
Exercise on programming of EPROM
Design J-K Flip-Flop Counter

Design J-K Flip-Flop Counter
Verify Logic & Airthmetic Operation using IC74181
Design & Implement Full adder
Design Full Subtractor

Specimen of lesson Plan

Name of the Faculty : Smt Preeti Bhandari
Discipline : Electronics and Communication Engg.
Semester : IVth
Subject : MICROPROCESSORS AND PERIPHERAL DEVICE
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 04 HOURS (Lecture)03 Hours per Group (PRACTICAL)

Week	Theory		Practical	
	Lecture day	Topic (including assignment/test)	Practical Day	Topic
1st	1st	Orgnisation of micro computer system function of its various blocks	1st	Practical -1
	2nd	Microprocessor, its evalution function and impact an modern society	2nd	
	3rd	Bus, types of buses, bus organisation of 8055		
	4th	Functional block diagram of 8085		
2nd	1st	Details of various blocks of 8085, their function	3rd	Practical -2
	2nd	Pin configuration of 8085 & related signals	4th	
	3rd	Multiplexing of buses & demultiplexing Registers of 8085		
	4th	Features of 8085		
3rd	1st	Contral signals		Practical W/Shop
	2nd	Assembly language & high level language		
	3rd	Execution of a stared program.		
	4th	Instruction cycle, machine cyle		
4th	1st	T-states, Execute cycle		Gap-2 Workshop
	2nd	Revision Ch. 1,2,3		
	3rd	Revision Ch. 1,2,3		
	4th	Machine & Mnemonic codes, Instruction format		
5th	1st	Addressing Modes		Workshop
	2nd	Types of instruction, instruction set		
	3rd	Stack & subroutines		
	4th	Data transfer group		
6th	1st	Arithmetic group		Seminar
	2nd	Logic group		
	3rd	Stack I/O, Machine control group		
	4th	Use of instuctions		
7th	1st	Programming skills		3
	2nd	Program examples		
	3rd	Excercise on programming		
	4th	3 Programs		
8th	1st	3 program of subroutines		4
	2nd	3 programs of stacks		
	3rd	Revision Ch. 4		
	4th	Assignment 2		
9th	1st	Assignment 3		5
	2nd	Test		
	3rd	Memory mapping -concept		
	4th	Partitioning of memory space		
10th	1st	Address decoding		6
	2nd	Peripheral mapped I/O		
	3rd	Memory mapping I/O		
	4th	Interfacing of Memory mapped devices		
11th	1st	Interfacing of I/O devices		7
	2nd	Practice of memory mapping		

	3rd	Assignment		
	4th	Revision of Ch.-5		
12th	1st	Interrupts-concept		8
	2nd	Types of interrupts		
	3rd	maskable & non-maskable, edge triggered & level triggered		
	4th	Software interrupts, RST, its use		
13th	1st	Hardware interrupts, servicing interrupts, extending interrupt system		9
	2nd	Programmed I/O operations		
	3rd	Synchronous data transfer		
	4th	Asynchronous data transfer (hand shaking)		
14th	1st	Interrupt driven data transfer, DMA		10
	2nd	Serial Input data, Serial output data		
	3rd	8255		
	4th	8253		
15th	1st	8257		11
	2nd	8279		
	3rd	8251		
	4th	8251		

Specimen of lesson Plan
Name of the Faculty : Miss Preeti Bhandari
Discipline : Electronics and Communication Engg.
Semester : Vith
Subject : EMPLOYABILITY SKILL-II
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 02 HOURS (Practical)

	Practical
1 week	Oral Practice on Mock Interview
2 week	Practice of facing interview
3 week	Interview practicing skills
4 week	Preparing for meeting & its practice
5 week	Important aspects for preparing meeting
6 week	Group Discussion imporant elements
7 week	Group Discussion practice
8 week	Group Discussion practice on a topic
9 week	Seminar presentation Skills
10 week	Seminar presentation Practice by giving different topics
11 week	Seminar presentation Practice
12 week	Elements of good presentation
13 week	Structur & tools of presentation
14 week	Paper Reading practice
15 week	Power Point presentation

LESSON PLAN			
Faculty Name		Sh. Sandeep Kumar	
Discipline		Electronics and Communication(ECE)	
Subject		Maintenance of Computer System(MOCS)	
Semester		6 th	
Lesson Plan duration		15 weeks (Jan-2018 to April-2018)	
Work load (per week-Lecture/Practical)		04 Hrs. (Lecture) / 03 Hrs. per Group (Practical)	
Week	Lecture Day	Theory	Practical
		Topic (including assignment/ test)	Topic
1st	1	Introduction about computer system	Introduction about computer system and peripherals devices
	2	Introduction about Mother Board	
	3	Introduction to different type of mother boards	
	4	Single Board Based System(motherboard)	
2nd	5	Block diagram of motherboard	Study about Mother board based on latest microprocessor and chipset CMOS Set up
	6	Study about Mother Board different parts	
	7	Installation of Computer system	
	8	Revision	
3rd	9	Introduction to Buses and Ports	Study about different connectors use in computer system
	10	Different type of Buses in PC SCSI and Serial and Parallel	
	11	ports	
	12	introduction to COM ports, LPTI,VGA port	
4th	13	introduction about USB	Study about different cables use in computer system
	14	Introduction to different interface units (RS 232C. DVI etc.)	
	15	use of computer for instrumentation and electronics	
	16	Principle and construction of HDD & FDD	
5th	17	Common faults in hard disk drive and Floppy disk drive	Study about Hard Disk Drive(HDD) Partition, Formatting and Installation
	18	Floppy Disk Controller & Hard Disk Controller	
	19	Introduction to Memory ,Pen Drives etc.	
	20	RAM Module	
6th	21	1st Sessional Test	Study about DVD-ROM/DVD Writer
	22	Introduction about keyboard and its types (basic and extended)	
	23	Block Diagram of keyboard Controller and keyboard switches	
	24	Keyboard faults	
7th	25	Computer Mouse -Types of Mouse	Installation to any operating system
	26	Common faults with mouse	
	27	Introduction to scanner-types of scanner	
	28	Introduction to digitizer	
8th	29	Introduction to different display devices- LCD,LED,CRT	Study about CRT,LCD and LED monitors
	30	CRT Display and Block diagram	
9th	31	Principle of operation of Computer Monitor	Operation and maintenance of monitors and viva
	32	Difference between TV and Computer Monitor	
	33	Video display Adaptors (monochrome)	
	34	Video display Adaptors (Colour)	
10th	35	Introduction to solid state displays	Operation and Installation of DOT Matrix Printer
	36	Revision	
	37	Basics of printer and its types	
	38	Printing Mechanism, Construction & working principles of	
11th	39	Dot Matrix Printer	Operation and Installation of Laser Printer
	40	Printing Mechanism, Construction and working principles of	
	41	Printing Mechanism, Construction and working principles of	
	42	Printer Controller	
12th	43	Centronics Interface, Signals from PC to Printer and Printer to	Modem, Switch and Router
	44	Revision	
	45	Idea about and introduction to networking connection/devices	
	46	LAN , WAN	
13th	47	Wi-Fi , WLAN	Establish LAN, WLAN ,using networking devices
	48	Basics to Router	
	49	introduction to switches use in networking	
	50	Basics of Hub, bridge	
14th	51	Revision	Study about Laptop, I-pod, Smart phone
	52	Revision	
	53	Introduction to Modem	
	54	Need and functions of modems	
15th	55	Laptop: Their need, function and applications.	Revision and Viva
	56	Study about networking	
	57	Revision	
	58	Revision	
15th	59	Revision	Revision and Viva
	60	3rd Sessional Test	

Note:-At least Three Assignments covering substantial portion of syllabus to be given.

Lesson Plan(Jan-April 2018)

Name of Faculty : Ms. Sumitra Sangwan

Program : Electronics and Communication Engg.

Subject:Wireless and Mobile Communications

Semester - 6th

Work Load(Lecture/Practical)per week : 04hrs(lecture),03hrs per group(practical)

Week No	Lecture No	THEORY	PRACTICAL
1 week	1st lecture	Introduction about the subject	Introduction about the subject practicals
	2nd lecture	Basics of wireless communication	
	3rd lecture	advantages of wireless communication	
	4th lecture	Electromagnetic waves	
2 week	1st lecture	frequency spectrum used	study the features,specifications and working of cellular mobile
	2nd lecture	Paging system	
	3rd lecture	Cordless Telephone System	
	4th lecture	Cellular telephone system	
3 week	1st lecture	Comparision of paging, cordless and cellular telephone system	study the features,specifications and working of cellular mobile
	2nd lecture	First generation of cellular systems	
	3rd lecture	second generation of cellular systems	
	4th lecture	third generation of cellular systems	
4 week	1st lecture	Fourth generation of cellular systems	signal strength measurement at variouspoints from transmitting antenna
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	cellular concept	
5 week	1st lecture	cell area	signal strength measurement at variouspoints from transmitting antenna
	2nd lecture	capacity of cell	
	3rd lecture	frequency reuse	
	4th lecture	1st Sessional	
6 week	1st lecture	cochannel interference	visit to MSC
	2nd lecture	adjacent channel interference	
	3rd lecture	Power control for reducing interference	
	4th lecture	cell splitting	
7 week	1st lecture	cell sectoring	demonstration of BTS with nearby cellular tower
	2nd lecture	repeaters for range extension	
	3rd lecture	Introduction to multiple access tehniques	
	4th lecture	Frequency Division Multiple Access	
8 week	1st lecture	Time Division Multiple Access	demonstration of BTS with nearby cellular tower
	2nd lecture	Code Division Multiple Access	
	3rd lecture	Spread Spectrum Multiple Access	
	4th lecture	Frequency Hopping Spread Spectrum	
9 week	1st lecture	Space Division Multiple Access	Revision and viva
	2nd lecture	Comparision of FDMA/TDMA/CDMA	
	3rd lecture	REVISION	
	4th lecture	REVISION	
10 week	1st lecture	Intoduction to GSM	Revision and viva
	2nd lecture	GSM architecture	
	3rd lecture	GSM architecture	
	4th lecture	2nd Sessional	
11 week	1st lecture	GSM services	call processing of GSM Trainer kit
	2nd lecture	Introduction to CDMA	
	3rd lecture	Comparisionof GSM and CDMA	
	4th lecture	Introducton to GPRS System	
12 week	1st lecture	Introducton to GPS System	call processing of CDMA Trainer kit
	2nd lecture	Introducton to Bluetooth	
	3rd lecture	Introducton to Wi-Fi	
	4th lecture	Introduction to communication system	
13 week	1st lecture	digital and analog communication system .	pairing of two devices using bluetooth
	2nd lecture	Block diagram of digital data communication system	
	3rd lecture	Comparision of digital and analog data communication systems	
	4th lecture	Series and parallel transmission	
14 week	1st lecture	REVISION	Data Transfer using Wi-Fi
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	REVISION	
15 week	1st lecture	REVISION	Revision and viva
	2nd lecture	REVISION	
	3rd lecture	REVISION	
	4th lecture	3rd Sessional	

Lesson Plan(Jan-April 2018)

Name of Faculty : Ms. Shalini Garg

Program : V.L.S.I

Subject:Wireless and Mobile Communications

Semester - 6th

Work Load(Lecture/Practical)per week : 04hrs(lecture),03hrs per group(practical)

Week	Theory		Topic
	Lecturer	Topic Covered	
1st	1st	Introduction to VLSI,VHDL	Introduction to VHDL Language
	2nd	Design cycle for VHDL Language	
	3rd	Continue Design cycle	
	4th	Continue Design cycle	
2nd	1st	Understanding VHDL by Eaxample	Library Introduction
	2nd	Understanding VHDL by Eaxample Cont.	
	3rd	Understanding VHDL by Eaxample Cont.	
	4th	Undstanding of Entity declaration	
3rd	1st	Architecture Body declaration and its types	Design of AND,OR Gate
	2nd	Architecture Body declaration and its types Cont(Data Flow)	
	3rd	Architecture Body declaration and its types Cont(behaviour Model)	
	4th	Architecture Body declaration and its types Cont(Structural)	
4th	1st	Example of 2 to 4 decoder using all three types of modelling	Design of Adder and Subtractor
	2nd	Example of 2 to 4 decoder using all three types of modelling cont	
	3rd	Example of 2 to 4 decoder using all three types of modelling cont	
	4th	Discussion of Basic Elements Of VHDL Language * Identifier * Data Object	
5th	1st	Data Objects Cont..	Design of XOR Gate
	2nd	Data Objects Cont..	
	3rd	Data Types	
	4th	Data Types Cont...	
6th	1st	Logical Operators	Design of XOR gate using basic gates
	2nd	logical Operators Cont..	
	3rd	Types of Delays	
	4th	1st Sessional And Assignment	
7th	1st	Assignments Statements	Design of 2:1 Mux using basic gate
	2nd	Assignments Statements Cont..	
	3rd	Variable Assignment	
	4th	Variable Assignment Cont..	
8th	1st	Process	viva and File checking
	2nd	Contitional Statement	
	3rd	Case Statement	
	4th	Concurrent Statement	
9th	1st	Revision and Assignment on 2nd Unit	Design of 2 to 4 Decoder
	2nd	Simulation of Circuit * Multiplexer	
	3rd	* Encoder	
	4th	* Decoder	
10th	1st	* Code Converter	Design of 3: 8 decoder
	2nd	* Comparators	
	3rd	* Implementation of Boolean Functions	
	4th	Assignment	
11th	1st	Sessional	Design of 8:3 priority Encoder
	2nd	Sequential Circuit Design * Shift Register	
	3rd	* Counter	
	4th	Revision of Circuit designing	
12th	1st	Class Test on designing the circuit	Design of 4 bit Binary to grey code Converter
	2nd	Introduction to Fixed Function IC * ASIC	
	3rd	Introduction to PLD *ROM	
	4th	* PLA	

13th	Ist 2nd 3rd 4th	* PAL * Numerical problems * Complex Programmable Logic devices Problems	viva and file checking
14th	Ist 2nd 3rd 4th	FPGA FPGA Cont.. FPAA(Field Programmes Analog Array FPAA Cont..	Design of Counter and ALU
15th	Ist 2nd 3rd 4th	Class Test On PLD Problems discussion Assignment 3rd Sessional	Viva and File checking

Specimen of lesson Plan

Name of the Faculty : Ms. Meenu Verma
Discipline : Electronics and Communication Engg.
Semester : VIth
Subject : ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT
Lesson Plan Duration : Jan-Apr-2018
Work Load (Lecture/ Practical) per week (in hours): 03 HOURS (Lecture)

Week	Theory		Practical
	Lecture day	Topic (including assignment/ test)	Topic
1 st	1	Section -A Entrepreneurship, Unit-1 Introduction about subject	N/A
	2	Concept /Meaning of Entrepreneurship and its need.	
	3	Qualities and functions of entrepreneur and barriers in entrepreneurship.	
2 nd	4	Sole proprietorship and partnership forms of business organizations.	
	5	Schemes of assistance by entrepreneurial support agencies at National, State, District level: NSIC, NRDC	
	6	DC: MSME, SIDBI, NABARD, Commercial Banks, SFC's TCO, KVIB, DIC.	
3 rd	7	Technology Business Incubator (TBI) and Science and Technology Entrepreneur Parks (STEP). 1st Assignment	
	8	Unit-2 Market Survey and Opportunity Identification.	
	9	Scanning of business environment, 1st Assignment	
4 th	10	Salient features of National and State industrial policies and resultant business opportunities.	
	11	Types and conduct of market survey	
	12	Assessment of demand and supply in potential areas of growth.	
5 th	13	Identifying business opportunity.	
	14	Considerations in product selection. 2nd Assignment	
	15	1st Sessional Test	
6 th	16	Unit-3 Project report Preparation.	
	17	Preliminary project report.	
	18	Detailed project report including Technical, economic and market feasibility.	
7 th	19	Common errors in project report preparations	
	20	Exercises on preparation of project report, 3rd Assignment	
	21	Section-B Management, Unit-4 Introduction to Management.	
8 th	22	Definitions and importance of management.	
	23	Functions of management: Importance and Process of planning, organizing, staffing, directing and controlling.	
	24	Principles of management (Henri Fayol, F.W. Taylor).	
9 th	25	Concept and structure of an organization.	
	26	Types of industrial organizations, Line organization, Line and staff organization, Functional Organization. 4th Assignment	
	27	Unit-5 Leadership and Motivation, Leadership, Definition and Need	
10 th	28	Qualities and functions of a leader, Manager Vs leader, Types of leadership.	
	29	Motivation, Definitions and characteristics, Factors affecting motivation, Theories of motivation. 5th Assignment	
	30	2nd Sessional Test	
11 th	31	Unit-6 Management Scope in Different Area, Human Resource Management, Introduction and objective, Introduction to Man power planning, recruitment and selection.	
	32	Introduction to performance appraisal methods.	
	33	Material and Store Management, Introduction functions, and objectives.	
12 th	34	ABC Analysis and EOQ.	
	35	Marketing and sales, Introduction, importance, and its functions, Physical distribution.	
	36	Introduction to promotion mix, Sales promotion.	
13 th	37	Financial Management, Introductions, importance and its functions.	
	38	Elementary knowledge of income tax, sales tax.	
	39	Excise duty, custom duty and VAT, 6th Assignment	
14 th	40	Unit-7 Miscellaneous Topics, Customer Relation Management (CRM), Definition and need, Types of CRM.	

14 th	41	Total Quality Management (TQM) Statistical process control, Total employees Involvement
	42	Just in time (JIT).
15 th	43	Intellectual Property Right (IPR) Introductions, definition and its importance.
	44	Infringement related to patents, copy right, trade mark. 7th Assignment
	45	3rd Sessional Test

* At least Three Assignment covering substantial portion of syllabus to be given.