Lesson Plan

Discipline: Computer Engg.Semester: 1stSubject:Fundamentals of IT

Lesson Plan Duration: 16 Weeks

Work Load (Lecture / Practical) per week (In hours): Lecture-2, Practical-4)

Week	Theory						
	LectureDay	Topic (Including Assignment / Test)					
	1	Brief history of development of computers,					
1	2	Definition of Computer, Block diagram of a Computer, Hardware, Software,					
	1	Booting: Cold and Hot Booting,					
2	2	Interaction between the CPU and Memory with Input/Output devices, Function of CPU and major functional parts of CPU.					
	1	Memory, Bit, Nibble, Byte, KB, MB, GB, TB, PB, Functions of memory,					
3	2	Use of storage devices in a Computer, List types of memory used in a Computer, Importance of cache memory,					
	1	CPU speed and CPU word length					
4	2	Understanding browser, Introduction to WWW, efficient use of search engines,					
	1	Awareness about Digital India portals (state and national portals) and college portals					
5	2	Various email service providers Creation of email id, sending and receiving emails,					
	1	Attaching documents with email and drive.					
6	2	Effective use of Gmail, G-Drive, Google Calendar, Google Sites, Google Sheets,					
	1	Online mode of communication using Google Meet & WebEx.					
7	2	Revesion and Test 1					
	1	Introduction to Programming,					
8	2	Steps involved in problem solving, Definition of Algorithm, Definition of Flowchart					
	1	Steps involved in algorithm development,					
9	2	differentiate algorithm and flowchart, symbols used in flowcharts,					
	1	algorithms for simple problems,					
10	2	flowcharts for simple problems, Practice logic building using flowchart/algorithm					
	1	Test 2					
11	2	Introducing LibreOffice/OpenOffice Calc, Working with Cells, Sheets, data, tables using formulae and functions, using charts and graphics.					
	1	Office Tools like LibreOffice/OpenOffice/MSOffice.					
12	2	OpenOffice Writer – Typesetting Text and Basic Formatting Inserting Images, Hyperlinks, Bookmarks,					
	1	Tables and Table Properties in Writer					
13	2	OpenOffice Impress – Creating and Viewing Presentations Inserting Pictures and Tables, Slide Master and Slide Design,					
	1	Custom Animation.					
14	2	Introduction to Digital Marketing Why Digital Marketing, Characteristics of Digital Marketing,					
	1	Tools for Digital Marketing					
15	2	Effective use of Social Media like LinkedIn, Google+, Facebook, Twitter, etc Features of Social media					
	1	Advantages and Disadvantages of Social Media.					
16	2	Assignment And Revision Test 3					

Discipline	:	Comp. Engg
Year	:	1st Sem
Subject	:	Computer workshop
Lesson Plan Duration	:	15 weeks

week	Practical Topic
1	Anatomy of a Computer, Foundations of Modern Information Technology, The Central Processing Unit, How Microprocessors and Memory Chips are Made, Memory, Buses for Input and Output, communication With Peripherals.
2	Desktop: Identification of desktop and its parts, Hardware, Software and Firmware Introduction to Mother board, IO and memory expansion slots, Drives, front panel and rear panel.Processors& Bus: Introduction and types of Processor, Introduction to BUS
3	Laptop: Introduction to Laptop, advantages over Desktops Laptop components: Adapter – types, Battery – types, Laptop Keyboard and Touchpad Power Supply: Introduction to online and offline UPS, Difference between online and offline UPS
4	SMPS: Introduction to SMPS, Study of SMPS Connectors
5	Primary Memory: Introduction and types of primary memory (SDRAM, DDR RAM) Secondary Storage: Hard Disk –Working Principle of IDE, HDD Partition – Formatting, Introduction to SATA and Solid-State Drives (SSD)
6	1 st Internal Sessional exam
7	Removable Storage: Introduction to CD, DVD, reading & writing operations; Introduction to Blue-ray devices Flash memory: Flash drives (pen drives), Memory cards and its types
8	Inputting Text and Graphics, State of the Art, Input and Output, Pointing Devices, Foundations of Modern Output, Display Screens, Printers, Foundations of Modern Storage, Storage Media, Increasing Data Storage Capacity, Backing up your Data, The Smart Card Keyboard: Types of keyboards (wired and wireless Keyboard), keyboards connectors, troubleshooting
9	Mouse: types, connectors, operation of Optical mouse and Troubleshooting. Printers: Introduction – Types of printers- Dot Matrix, Inkjet, LaserJet, MFP (Multi-Function Printer), advantages, disadvantages, cables and connectors, Troubleshooting. I/O Ports: Introduction and identification of Serial, Parallel, USB, HDMI.
10	Displays: Introduction to LED, LCD and TFT Displays, cables and connectors Graphic Cards: Introduction to different types of Graphics cards
11	2 nd Sessional exam
12	Bios-setup: Standard CMOS setup, Advanced BIOS setup, advanced chipset features, PC Bios communication, upgrading BIOS, Flash BIOS -setup. POST and BOOTING: Definition, POST Test sequence – beep codes. Diagnostic Software and Viruses: Computer Viruses, Precautions, Anti-virus Software, Working of Antivirus software's
13	General troubleshooting of various peripheral devices (printer, pc, laptop, keyboard, mouse, monitor, hard disk)
14	Assembling and Disassembling of PC DIPLOMA IN COMPUTER ENGINEERING NSQF LEVEL - 3 HARYANA STATE BOARD OF TECHNICAL EDUCATION 29 Installation and Troubleshooting: Formatting, Partitioning and Installation of OS: Windows and Linux Installation of peripheral devices: Printers, scanner Installation of software's: application software, systems software
15	3 rd Sessional Exam

Discipline- Applied Science

Semester – 1st Sem

Subject - MATHS

Duration – 15 weeks (2023-24)

Work load (per week)-: lectures-04

Week		Theory	
	Lect. day	Topic	
	1 st	Unit-1 Complex Numbers: definition of complex number, real and imaginary parts of a complex number,	
1st	2 nd	real and imaginary parts of a complex number,,	
	3rd	Polar and Cartesian Form and their inter conversion, Conjugate of a complex	
	4 th	Logarithms and its basic properties	
2 nd	1 st	Logarithms and its basic properties	
	2 nd	Revsion unit-1	
	3rd	Unit-2 Meaning of npr&ncr	
	4 th	Binomial theorem (without proof) for positive integral index	
3 rd	1 st	first binomial approximation with application to engineering problems.	
	2 nd	Determinants and Matrices – Evaluation of determinants (upto 2ndorder), solution of equations (upto 2 unknowns) by Crammer's rule,	
	3rd	Determinants and Matrices – Evaluation of determinants (upto 2ndorder), solution of equations (upto 2 unknowns) by Crammer's rule,	,
	4 th	Determinants and Matrices – Evaluation of determinants (upto 2ndorder), solution of	
		equations (upto 2 unknowns) by Crammer's rule,	

	1st	definition of Matrices and its types	
	'	addition outbroation and	
3 rd		audition, subtraction and	
		multiplication of matrices (upto	
		2nd order).	
	2 nd	definition of Matrices and its types,	
		addition, subtraction and	
		multiplication of matrices (upto	
		2nd order).	
	3 rd	Revision Unit- 2	
	Ŭ		
	∕ tth	Devision Unit 2	
	-	Revision Unit-2	
	Ast		
	73	Unit-3 Concept of angle,	
		measurement of angle in	
4 th			
		degrees, grades, radians	
		and their conversions.	
	2 nd	Upit 2 Concert of another	
	-	Unit-3 Concept of angle,	
		measurement of angle in	
		degrees grades radians	
		and their conversions.	
	3 rd	T-Ratios of Allied angles	
		(without proof), Sum,	
		Difference formulae and their	
		applications (without proof).	
		Product formulae	
		(Transformation of product to	
		sum,	
		difference and vice versa	
	∆th	T-Ratios of Allied angles	
	1	(without proof). Sum.	
		Difference formulae and their	
		applications (without proof).	
		Product formulae	
		(Transformation of product to	
		sum.	
		difference and vice versa	
	Ast	Applications of Trigonometric	
	7*	terms in engineering problems	Geometry of Circle and
		such as to find an angle of	Software
5"			Circle Introduction
		elevation, neight, distance	
		etc.	
	2 nd	Applications of Trigonometric	General equation of a
	-	terms in engineering problems	circle and its
		such as to find an angle of	characteristics. To find
		elevation height distance	the equation of a circle,
		oto	given:
		<i>EIC.</i>	
	3 rd	Revision Unit-3	Centre and radius
	4 th	Revision Unit-3	Three points lying on it
	1 st	UNIT IV	Coordinates of end
6th		Co-ordinate Geometry	points of a diameter
0			,
		Introduction	
	2 nd	Cartesian and Polarco-	MATLAB Or SciLab
		ordinates (two dimensional),	software Introduction
		Distance between two points,	
		mid-	
		point, centroidof vertices	
		of a triangle	
		or a mangle.	

	3rd	Cartesian and Polar co- ordinates (two dimensional), Distance between two points, mid- point, centroid of vertices of a triangle.	Theoretical Introduction, MATLAB or Scilab as Simple Calculator
	4 th	Slope of a line, equation of straight line in various standards forms (without proof);	(Addition and subtraction of values – Trigonometric and Inverse Trigonometric functions)
7th	1 st	Slope of a line, equation of straight line in various standards forms (without proof);	General Practice
	2 nd	(slope intercept form, intercept form, one-point form, two-point form, symmetric form,	Revision Unit-4
	3rd	form), intersection of two straight lines, concurrency of lines, angle between straight lines, parallel and perpendicular lines,	Revision Unit-4
	4 th	perpendicular distance formula, conversion of general form of equation to the various forms.	Revision Unit-4

8 th	1 st	Revision- Unit-4 Revision- Unit-4
	2 nd	
	3 rd	Revision- Unit-4
	4 th	Revision- Unit-4
9 th	1 st	UNIT V Geometry of Circle and Software
	2 nd	Circle Introduction
	3 rd	Geometry of Circle and Software Circle Introduction
	4 th	UNIT V Geometry of Circle and Software Circle Introduction
10 th	1st	General equation of a circle and its characteristics. To find the equation of a circle, given:
	2"	General equation of a circle and its characteristics. To find the equation of a circle, given:
	3rd	Centre and radius
	4 th	<i>Three points lying on it</i>
11th	1 st	Coordinates of end points of a diameter
	2 nd	
		Centre and radius
	3 rd	T hree points lying on it
	4 th	Coordinates of end points of a diameter

12 th	1 st	MATLAB Or SciLab software Introduction	
	2 nd	MATI AD Or Soil ab	
		software Introduction	
	3rd	MATLAB Or SciLab software Introduction	
	4 th	MAILAB Or SciLab software Introduction	
1 <i>3</i> th	1 st	Theoretical Introduction, MATLAB or Scilab as Simple Calculator	
	2 nd	Ineoretical Introduction, MATLAB or Scilab as Simple Calculator	
	3rd	(Addition and subtraction of values – Trigonometric and Inverse Trigonometric functions	
	4 th	(Addition and subtraction of values – Trigonometric and Inverse Trigonometric functions	
14 th	1 st	Revision Unit-4	
	2 nd	Revision Unit-4	
	3rd	Revision Unit-4	
	4 th	Revision	
5th	1 st	Revision	
	2 nd		
		Revision	
	3rd	Revision	

	4 th	Revision		
16th	1 st	Revision		
	2 nd			
		Revision		
	3 rd	Revision		
	4 th	Revision		

Government Polytechnic Panchkula, Sector

Lesson Plan

Discipline- Applied Science Semester – 1st Sem Subject – Applied Physics Duration – 15 weeks (2023-24)

Work load (per week):- lectures-02, and practicals-02

Week		Theory	Practical		
	Lect. day	Topic	Practical day	Торіс	
1 st	1 st	Definition of Physics, physical quantities- fundamental and derived	1 st	Familiarization of measurement instruments and their parts (for example - vernier calliper, screw gauge, spherometer, travelling	
	2 nd	Units: fundamental and derived		microscope etc.), andtaking a reading. (compulsory to all students)	
2 rd	1 st	System of units: CGS, FPS, MKS,SI	1 st	To find diameter of solidcylinder using a vernier calliper	
	2 nd	Dimension, dimensional formulae and SI units of physical quantities-distance, displacement, area, volume, density, velocity, acceleration, linearmomentum, force, impulse, work, power, energy, pressure, surface tension, stress,strain)			
3 _{lq}	1 st	Dimensional equations, principle of homogeneity of dimensional equation	1 st	To find internal diameter and depth of a beaker using a verniercalliper and hence find	
	2 nd	Application of dimensional analysis: checking the correctness of physical equation, conversion of system of unit(force, work, acceleration)		its volume.	

1th	Ast		Ast	To find the diamentary of wine
401	100	UNIT II	100	using screw gauge
		F 111 <i>C</i>		denig con gauge
		Force and Motion		
		2.1 Scalar and vector quantities-		
		definition and examples,		
		representation of vector, types		
		of vector (unit vector position		
		vector co-initial vector collinear		
		vector, co-planar		
	D r d	vector)		
	2 ^{na}	Vector algebra- addition of vectors,		
		(statement and		
		formula only)		
5th	1 st	Scalar and vector product	1 st	To find thickness of paper
		(statement and formula only)		using screw gauge.
	2 nd	Force and its units, resolution of force		
	-	(statement and formula only)		
6th	1 st	Newton's laws of motion (statement	1 st	To determine the thickness of
		and examples)		glass strip using a
				spnerometer
	2 nd	Linear momentum, Law of		
		conservation of linear momentum		
		examples), Impulse		
7th	1 st	Circular motion: definition of angular	1 st	To determine radius of
		displacement, angular velocity,		curvature of a given spherical
		angular		surface by a spherometer.
		acceleration, frequency, time period;		
		Relation between linear and angular		
		centrinetal and centrifugal forces		
		(definition and formula only).		
		application of		
		centripetal force in banking of road		
	2 nd	Rotational motion: definition with		
		examples		
		Definition of torque, angular momentum, moment of inertia and its		
		physical		
		significance		
8th	1 st	Work- definition, symbol, formula and	1 st	To verify parallelogram law of
		SI unit, types of work (zero work,		force
		positive work and negative work) with		
		example		
	2 nd	Friction– definition and its simple		
		daily life applications		

9th	1 st	Power- definition, formula and units	1 st	<i>To determine the atmospheric pressure at a place using Fortin's Barometer</i>	
	2 nd	Energy- definition and its SI unit, examples of transformation of energy.			
10th	1 st	Kinetic energy- definition, examples, formula and its derivation	1 st	To determine force constantof spring using Hooke's law	
	2 nd	Potential energy- definition, examples, formula and its derivation			
11th	1 st	Law of conservation of mechanical energy for freely falling bodies (with derivation)	1 st	Measuring room temperature with the help of thermometer and its conversion in different scale.	
	2 nd	Simple numerical problems based on formula of Power and Energy			
12th	1 st	Elasticity and plasticity- definition, deforming force, restoring force, example of elastic and plastic body Definition of stress and strain, Hooke's law, modulus of elasticity	1 st	Revision and File Checking	
	2 nd	Pressure- definition, atmospheric pressure, gauge pressure, absolute pressure, Pascal's law Surface tension- definition, SI unit, applications of surface tension, effect of temperature on surface tension Viscosity: definition, unit, examples, effect of temperature on viscosity			
13th	1 st	Definition of heat and temperature (on the basis of kinetic theory)	1 st	Revision and File Checking	
	2 nd	Difference between heat and temperature			

14th	1 st	Principle and working of mercury thermometer	1 st	1 st Revision and File Checking	
	2 nd	Modes of transfer of heat- conduction, convection and radiation with examples.			
15th	1 st Properties of heat radiation 1 st Viva-Voice Different scales of temperature and their relationship		Viva-Voice		
	2 nd	Revision			
16th	1 st	Revision	1 st	Viva-Voice	
	2 nd	Revision	1 st	Viva-Voice	

<u>Lesson Plan</u>

Discipline: Applied Science Year : 1st Year Subject :Communication Skill LessonPlan: 15 Weeks Sep 2023-Dec 2023 Workload (lecture/practical)perweek(inhours):Lectures-02, practicals-02

Wee k	Theory			Practical
	Lecture	Topic(including assignmenttest)	Practical Day	Торіс
	day		(1lab=2 hours)	
1st	1st	Techniques of reading: Skimming and Scanning		Reading Reading Practice of lessons in the Lab Activity classes.
	2nd	Extensive and Intensive Reading: Textual Study		Reading Reading Practice of lessons in the LabActivity classes.
2nd	3rd	Homecoming – R.N. Tagore		Reading Reading Practice of lessons in the Lab Activity classes.
	4th	Life Sketch of Sir Mokshagundam Visvesvarayya		Reading Reading Practice of lessons in the LabActivity classes.

3rd	5th	Homecoming – R.N. Tagore	Reading Reading Practice of lessons in t Lab Activity classes.	Reading Reading Practice of lessons in the Lab Activity classes.
		Life Sketch of Sir Mokshagundam Visvesvarayya		Reading Reading Practice of lessons in the LabActivity classes.

4th	7th	Narayan Murthy's speech at LBSNA, Dehradun	Comprehension exercises of unseen passages along with the lessons prescribed.
	8th	UNIT II Fundamentals of Communication	Comprehension exercises of unseen passages along with thelessons prescribed.
5th	9th	Concept and Processof Communication,	Vocabulary enrichment and grammar exercises based on the selected readings.
	10 th	Types of Communication (Verbal Communication)	Vocabulary enrichment and grammar exercises based on the selected readings.
6th	11 th	Barriers to Communication	Reading aloud Newspaper headlines and important articles.
	12 th	Speaking Skill: Significance and essentials of Spoken Communication	Reading aloud Newspaper headlines and important articles.
7th	13 th	Listening Skill: Significance and essentials of Listening	Fundamentals of Communication i. Introducing oneself, others and leave-taking(talking about yourself)
	14 th	UNIT III Grammar and Usage	Fundamentals of Communication i. Introducing oneself, others and leave-taking(talking about yourself)
8th	15 th	UNIT III Grammar and Usage	Just a minute (JAM) sessions: Speaking extempore for one minute

			on given topics
	16	Nouns	
	th		Viva Voice
	17'''		
9th		Laws of photometry,	Revision and file checking

	18 th	Pronouns	Just a minute (JAM) sessions: Speaking extempore for one minute on given topics
10th	19 th	Articles	Situational Conversation: Offering- Responding to offers; Congratulating; Apologising and Forgiving; Complaining; Talking about likes and dislikes, Self- introduction Mock Interviews.
	20 th	Verbs(Main and Auxiliary)	Situational Conversation: Offering- Responding to offers; Congratulating; Apologising and Forgiving; Complaining; Talking about likes and dislikes, Self- introduction Mock Interviews.
11th	21 st	Tenses	Grammar and Usage i. Written and Oral Drills will be undertaken in the class to facilitate holistic linguistic competency among learners.
	22 nd	UNIT IV Writing Skills	Grammar and Usage i. Written and Oral Drills will be undertaken in the class to facilitate holistic linguistic competency among learners.
12th	23 rd	Significance, essentials and effectiveness of	Exercises on the prescribed grammar topics.

		Written Communication	Exercises on the prescribed grammar topics.
	24 th	Notice Writing	
13th	25 th	Official Letters and E- mails.	Exercises on the prescribed grammar topics.
	26 th	Official Letters and E- mails.	

14th	27 th	Paragraph Writing	
			Exercises on the prescribed grammar topics.
	28 th	Netiquettes	Writing Skills i. Students should be given Written Practice in groups so as to inculcate team-spirit and collaborative learning
15th	29 th	Revision	Group exercises on writing paragraphs on given topics.
	30 th	Revision	
			Group exercises on writing paragraphs on given topics.
16th	31 st	Revision	Opening an e-mail account, receiving and sending emails
	32 nd	Revision	Opening an e-mail account, receiving and sending emails

Discipli Semes Work L	ine ter and Subject Le .oad (Practical) pe	sson Plan Duration r week (in hours)	Computer Engg 1 st , Electronics workshop 16 Weeks	
			Practical-12	
Week		Practic	al	
	Practic		Торіс	Groups
	al Day			
	Day 1	Concept of Resistors, Co	olor Coding, Tolerance, Maximum	G1&
	Day 2	power rating, Application	on of	G 2
1st	Day 3	Classification of Capacito	ors, Coding of capacitors-using	618
	Day 3 Day 4	numerals, directly printe	d valueson capacitors, Ceramic	G 2
	, ·	capacitor and Electrolytic	capacitor.	<u> </u>
Quad	Day 1 Day 2	Concept of Inductors.		G 2
Zna	Day 3 Day 4	Testing of components us	sing Multi meter/LCR Q-meter.	G 1 & G 2
	Day 1	Identify different types of soldering guns and practice soldering		G1&
3rd	Day 2	of different electronic.		G 2
	Day 3 Day 4	Join the broken PCB track and test.		G 1 & G 2
	Day 1 Day 2	Practice de-soldering using pump and wick.		G 1 & G 2
4th	Day 3 Day 4	Prepare component for soldering.		G 1 & G 2
5th	Day 1	Demonstrate soldering a	nd de-soldering using soldering and de-	G1&
	Day 2	solucing stations.		G 2
		Identify different types o	f mains transformers and their	6.4.9
	Day 3 Day 4	testing.Identify the prima	ary and secondary transformer	61&
	Day	windings and test the po	larity.	02
	Day 1	Identify different sizes, sh	napes of cores used in low capacity	G 1 &
	Day 2	transformers. Measure th	e primary and secondary voltage of	G 2
6th	- /	unierent transformers.		
	Day 3	PN junction diode: Termi	nal Identification, setting on bread	G 1 &
	Day 4	on bread board and testing		G 2
			······································	
		LED, Photo diode :Termin	nal Identification, setting on bread	
	Day 1	7432 7805 555 741 Pir	diagram	G1&
7th	Day Z	Identification, setting on	bread board and testing.	62
		Switches, Application of	Foggle, Rotary, push to on & push to	
	Day 3	off .Relays and applicatio	n of General purpose relay.	G1&
	Day 4			62

8th	Day 1 Day 2	Power Supply, DC power supply, Concept of Dual power supply. Cathode Ray Oscilloscope (CRO), CRO probes, Front panel controls, AC/DC voltage measurement, Frequency measurement, wave form generation.	G 1 & G 2
	Day 3 Day 4	Function Generator, Front panel controls, Functions: sine wave, square wave, triangular wave and Amplitude measurement.Digital Multi Meter, Front panel controls of DMM.	G 1 & G 2
9th	Day 1 Day 2	Study of AC and DC Waveforms.Construction of various electronic circuits on breadboard Circuits like: rectifiers, filter circuits, clipper, clamper, transistor amplifiers, logic gates, LED driver circuit, power supply, etc.	G 1 & G 2
	Day 3 Day 4	Testing of outputs of various electronic circuits using test Equipment.	G 1 & G 2
10th	Day 1 Day 2	AC and Electrical Cables.Identify the Phase, Neutral and Earth on power Socket.	G 1 & G 2
	Day 3 Day 4	Construct a test lamp and use it to check mains.	G1& G1&
	Day 1 Day 2	Use a Tester to monitor AC power.	G 1 & G 2
11th	Day 3 Day 4	Measure the voltage between phase and ground and rectify earthing.	G 1 & G 2
	Day 1 Day 2	Identify and test different AC mains cables.	G 1 & G 2
12th	Day 3 Day 4	Skin the electrical wires /cables using the wire stripper and cutter.	G 1 & G 2
	Day 1 Day 2	Prepare the mains cable for termination.	G 1 & G 2
13th	Day 3 Day 4	Measure AC and DC voltages using multi meter.	G 1 & G 2
14th	Day 1 Day 2	Replace the fuse, battery for the given multimeter.	G 1 & G 2

	Day 3	Revision	G1&
	Day 4		G 2
	Day 1	Revision	
15th	Day 2		G 2
	Day 3	Revision	G1&
	Day 1	file check	G1&
16th	Day 2		G 2
1001	Day 3	internal practical	G1&
	Day 4		G 2

Department

- : Computer Engineering
- Semester

: Operating System

: 3rd

Subject Lesson Plan Duration : 15 weeks

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

	Theory Practical		Practical	
Week	Lecture	Торіс	Practical	T ' .
	day	(Including assignment / test)	Day	ιορις
1st	1 st	Definition of Operating Systems		
	2 nd	Types of Operating Systems: Batch Systems, Multi-	1st	Demonstration of all the controls provided in windows
	3 rd	Types of Operating Systems: Time Sharing Systems.		control panel
2nd	4 th	Operating System Services, User operating system		Furning on Design of
	5 th	System Calls, Types of System Calls	2nd	Exercise on Basics of windows
	6 th	System Programs		
3rd	7 th	Operating System Structure	3rd	Installation of Linux
	8 th	Virtual Machine, Benefits of Virtual Machine		Operating System
	9 th	Revision of the unit		
4th	10 th	Process concept, Process State, Process Control Block,		Usage of directory
	11 th	Scheduling Queues, Scheduler, Job Scheduler, Process	4th	management commands of Linux: ls, cd, pwd, mkdir,
	12 th	Context Switch, Operations on Processes		rmdir
5th	13 th	Interposes Communication	5th	Usage of File Management
	14 th	Shared Memory Systems, Message-Passing Systems		commands of Linux: cat, chmod,cp, mv, rm, pg, more,
	15 th	CPU Scheduler, Scheduling Criteria, Process		find
6th	16 th	SchedulingAlgorithms,Pre-emptive and Pre-emptive		Use the general purpose
	17 th	First come first serve (FCFS), Shortest Job first	6th	Linux: wc, od, lp, cal, date,
	18 th	Revision of the Unit II		
7th	19 th	Deadlock, Conditions for Dead lock Methods for handling deadlocks		Using the simple filters: pr.
	20 th	Dead Prevention, Deadlock Avoidance	7th	head, tail, cut, paste, nl, sort
	21 st	Deadlock detection ,Recovery from deadlock		
8th	22 nd	Definition – Logical and Physical address Space	8th	Communication Commands:
	23 rd	Swapping, Memory allocation		news, write, talk, mseg, mail,
		partition		wall
	24 th	Class Test of Topics Covered		
9th	25 th	Internal and External fragmentation and Compaction		
	26 th	Paging – Principle of operation, Page allocation	9th	Write a shell program that finds the factorial of a
	27 th	Hardware support for paging, Disadvantages of paging		number
10th	28 th	Protection and sharing	10th	Write a shell program that
	29 th	Segmentation, Virtual Memory		is prime or not
	30th	Class Test of Unit III		
11th	31 st	Dedicated Devices, Shared Devices,		Write a shell program to find
	32 nd	I/O Devices, Storage Devices,	11th	the average of three numbers
40.1	33 ^{ru}	Buttering, Spooling		
12th	34"	Types of File System; Simple file system	12th	write a shell program that will

			_	
	35 th	Basic file system, Logical file systemPhysical file system		convert all the text of the file from lowercase to uppercase
	36 th	Various Methods of Allocating Disk Space		
13th	37 th	History of Linux and Unix, Linux Overview	13th	Practice the general purpose
	38 th	Structure of Linux, Linux releases, Open Linux,Linux		commands of Linux
	39 th	Linux Commands and Filters: mkdir, cd,rmdir, pwd, ls, who, whoami,		
14th	40 th	cp, mv, rm,pg,more, pr, tail, head, cut, paste, nl	14th	Practice Shell Programming
	41 st	grep, wc, sort, kill, write, talk,mseg, wall, merge,mail, news		
	42 nd	Revision of Linux Commands		
15th	43 rd	Shell: concepts of command optionsinput, output,redirection,pipesredirecting		
	44 th	and piping with standard errorsShell scripts	15th	Practice Vi editor Programs
	45 th	vi editing commands and Revision of Shell Script and vi editor		

Lesson Plan (Odd Semester)

Discipline	: Computer Engineering
Department	: Computer Engineering
Semester	: 3 rd
Subject	: Programming in C
Lesson Plan Duration	: 16 weeks (from september, 2022)

Work load (Lecture / Practical) per week(in hours): Lectures - 03, Practicals - 06

		Theory	Practical			
Week	Lecture day	Topic (Including assignment /	Practical Day	Торіс		
		test)	đ			
1 st	1	Steps in development of a program	1	Programming exercises on executing and editing a C		
	2	Flow charts,		program.		
	3	Algorithm development	1			
2 nd	4	Programme Debugging				
	5	I/O statements	2 nd	Programming exercises on		
	6	Constants, variables		defining variables and assigning		
3 rd	7	assign statements		values to variables		
	8	data types				
	9	Operators and Expression	3 rd	Programming exercises on arithmetic and relational operators		
4 th	10	Operators and Expression	4 th	Programming exercises on		
	11	Unformatted and Formatted IOS		arithmetic expressions and their evaluation.		
	12	Data Type Casting	5 [™]	Programming exercises on formatting input/output using printf and scanf and their return type values		
5 th	13	Introduction to Control Structures	6 th	Programming exercises using if statement.		
	14	Decision making with IF – statement				
	15	IF – Else	7 th	Programming exercises using if –		
6 th	16	Nested IF	1	Else.		
	17	While and do-while,	8 th	Programming exercises on do – while, statement.		
	18	for loop]	Programming exercises on for – statement.		
7 th	19	Break. Continue, goto	9 [™]	Programming exercises on switch		
	20	switch statements		statement.		
	21	Introduction to pointers	10 th	Simple programs using pointers.		

8 th	22	Address operator and		
	22	Pointers	-	
	23	Declaring pointers		
oth	24			
9	25	Single pointer,	a a th	
	26	Introduction to functions		Simple programs using functions
	27	Global and Local Variables		
10 th	28	Function Declaration		
	29	Standard functions		
	30	Parameters and Parameter Passing		
11 th	31	Call - by value/reference		
	32	Introduction to Arrays	12 th	Programs on one-dimensional
	33	Array Declaration, Length		array.
		of array		
12 th	34	Single Array.		
	35	Multidimensional Array	13 th	Programs on two-dimensional
	36	Arrays of characters		array.
13 th	37	Introduction of Strings	14 th	Programs for putting two strings
	38	String declaration and		together.
		definition		
	39	String Related function		
		i.e. strlen, strcpy	4	
14 th	40	String Related function	15	Programs for comparing two
		i.e. strcmp		strings.
	41	Passing an array to		
		function	_	
	42	Pointers to an array and		
+h		strings.	_	
15 ^m	43	Pointers to an strings.	- eth	
	44	Declaration of structures	16"	Simple programs using structures
	45	Accessing structure		Simple programs using union.
- 11-		members	4	
16 th	46	Structure Initialization	4	
	47	Pointer to a structures,	1	
	48	Unions		

LESSON PLAN

Discipline: COMPUTER ENGG.

Semester: 3rd

Subject: DBMS

Work Load (Lecture/Practical) per week(in hours):Lectures-02,Practicals-04

Week		Theory	Practical	
1st Week	1st Day 2nd Day	Unit:1 Introduction 1.1 Database Systems 1.1.1 Introduction to Database and its purpose 1.1.2 Introduction to Database system 1.1.3 Why Database 1.1.4 History of Database System 1.1.5 Characteristics of the database approach 1.1.6 Advantages and disadvantages of database systems	4 hrs	Overview, Features and functionality in MS- Access.
		1.1.7 Introduction to Conventional File System 1.1.8 Concept of files, record, data, information retrieval.		
	_{3rd} Day	1.1.9 Comparison between Conventional System and DataBase System	4 hrs	Application development in MS- Access
^{2nd} Week				
	4th Day	1.2.2 Database Administrators, Database Designers, End Users, SystemAnalysts and Application Programmers		
	₅ th Day	1.2.3 Workers behind the scene (DBMS system designers and implementers, tool developers, operator and maintenance personnel)	4 hrs	Practice on Application development
3rd Week		1.2.4 History of data base System		in MIS- Access
	^{6th} Day	Test		
	7th Day	Unit2:Database System Concepts and Architecture 2.1Data models: (Physical Model, Object based Model)		Exercises on different forms of select
4th week	8th Day	Record based Model Network Model, Hierarchical Model	4 hrs	statement in SQL.
		Schemas, sub schemas instances, data base state.		

	9th Day	Case Study of models and schemas (examples student information System)		
5th Week	10th Day 2.2 DBMS Architecture: Three Level of Architectures 2.2.1 The External level 2.2.2 The conceptual level 2.2.3 The internal level 2.2.4 Mapping 2.3 Data base Administrator and Administration, Database		4 hrs	Practical Lab Test
		Management System – Advantage and Disadvantage		
	^{11th} Day	Classification of DBMS, DBMS Interfaces		Exercises on different forms
6th week	₁₂ th Day	2.4 Concept of centralized and Client /Server Architecture for DBMS: Single Tier, Two Tier and Three Tier	4 hrs	of altering of tables in SQL.
		2.5 Data Independence2.5.1 Logical data Independence2.5.2 Physical data Independence		
	₁₃ th Day	2.6 Database Languages and Interfaces2.6.1 DBMS Language2.6.2 DBMS Interfaces	4 hrs	Exercises on droping of tables in SQL.
7th week		2.7 Classification of Database Management Systems: Centralized, Distributed Parallel and Object based Models		
	_{14th Day}	Test		
8th week	^{15th} Day	Unit3: Data Modeling using E.R. Model (Entity Relationship Model) 3.1Data Models Classification : File based Models	4 hrs	Exercises on creation of tables
	_{16th Day}	Primitive models		
		3.2 Entities and Attributes		
9th week	^{17th} Day	3.3 Entity types and Entity sets		
		3.4 Key attribute and domain of attributes	4 hrs	Practice in SQL
	^{18th Day}	3.5 Relationship among entities	<u> </u>	
^{10th} week	^{19th} Day	3.6 Database design with E/R model		

	₂₀ th Day	3.7 ER Design Issues	4 hrs	Practical Lab Test
		3.8 Mapping Constraints		
^{11th} week	^{21st} Day	Test	4 hrs	Exercises on insertion of data
	22nd Day	 Unit 4 : Relational Model: 4.1 Relational Model Concepts: Domain, Attributes, Tuples 4.1 Cardinality, Keys (Primary, Secondary Keys) 		into tables
^{12th} week	₂₃ rd Day	4.1 Alternative Keys,Candidate Keys etc		
		4.1 Relations in detail	4 hrs	Practice in SQL
	^{24th} Day	Test		
	25th Day	Unit 5 :Structured Query Language(Introduction) Data definition language : Create, Alter, Drop commands	4 hrs	Exercises on UPDATE
^{13th} week	^{27th} Day	5.1 Data Manipulation Language (DML)		statement
		5.2 Select command with where clause using conditional expressions.		
^{14th} week	^{28th} Day	Update Command, Alter Command	4 hrs	Practical in SQL
	^{29th} Day	Various Queries in SQL		
		Boolean operators, Group by clause		
^{15th} week	^{30th} Day	Like Operator	4 hrs	Practical Lab Test
		5.3 Insert, Update and Delete commands		
	31st Day	Test		

DISCIPLINE: COMPUTER ENGINEERING

SEMESTER: 3rd

SUBJECT: DIGITAL ELECTRONICS

LESSON PLAN DURATION: 16 WEEKS

WORK LOAD (LECTURE/ PRACTICAL): LECTURES-3, PRACTICALS -3

WEEK	THEORY		PRACTICAL		
1st	LECTURE	ΤΟΡΙΟ	PRACTICAL	TOPIC	
	DAY		DAY/PERIOD		
	1	UNIT 1 Introduction	1-3	Introduction	
	2	Distinction between analog and digital signal	-		
	3	Applications and advantages of digital signals			
2nd	1	UNIT 2 Number System	1-3	Introduction	
		Binary, octal and hexadecimal number			
		system: conversion from decimal and			
		hexadecimal to binary vice-versa.	-		
	2	Binary, octal and hexadecimal number			
		system: conversion from decimal and			
		hexadecimal to binary and vice-versa.	-		
	3	Binary addition and subtraction including			
		binary points. 1's and 2's complement			
		method of addition/subtraction.			
3rd	1	UNIT 3 Codes and Parity	1-3	Introduction	
		Concept of code, weighted and non-			
		weighted codes	-		
	2	Examples of 8421, BCD, excess-3 and Gray			
		code	-		
	3	Concept of parity, single and double parity			
	_	and error detection			
4th	3	UNIT 4 Logic Gates and Families	1-3	Verification and	
		Concept of negative and positive logic	-	interpretation of truth	
	1	Definition, symbols and truth tables of NOT,		tables for AND, OR, NOT	
		AND	-	NAND, NOR and Exclusive	
	2	OR, NAND, NOR, EXOR Gates		OR (EXOR) and Exclusive	
Eth	1	NAND and NOD as universal astas	1.2	NOR(EXNOR) gates	
5"	1	NAND and NOR as universal gates	1-3		
	2	Introduction to TTL and CIVIOS logic families	-		
cth	3		4.2		
6		UNIT 5 Logic Simplification	1-3	Realization of logic	
		Postulates of Boolean algebra, De Morgan's		functions with the help of	
	-	Ineorems	-	NAND of NOR gate	
	2	Implementation of Boolean (logic) equation			
	2	With gates	-		
	5	Karnaugh map (upto 4 variables)			
/tn	1	simple application in developing	1-3		
	2	complicational logic circuits	4		
	2	UNIT & Arithmetic circuits			

		Half adder and Full adder circuit		
	3	design and implementation		
8th	1	4 bit adder circuit	1-3	To design a half adder
	2	UNIT 7 Decoders, Multiplexeres, De		using XOR and NAND
		Multiplexeres and Encoder		gates and verification of
		Four bit decoder circuits for 7 segment		its operation
		display		
	3	decoder/driver ICs		
9th	1	Basic functions and block diagram of MUX	1-3	
	2	DEMUX with different ICs		
	3	Basic functions and block diagram of		
		Encoder		
10th	1	UNIT 8 Latches and flip flops	1-3	Construction of a full
		Concept and types of latch with their		adder circuit using XOR
		working and applications	_	and NAND gates and
	2	Operation using waveforms and truth tables		verify its operation
		of RS flip flops		
th	3	I, D, Master/Slave JK flip flops		
11"	1	Difference between a latch and a flip flop	1-3	
	2	UNIT 9 Counters		
		Introduction to Asynchronous and		
	2	Synchronous counters	_	
1246	3	Asynchronous and synchronous counters	1.2	Marification of truth table
IZth	2	Divide by Nicipple counters	1-3	for positive adde
	2	Divide by N Tipple counters,		triggered pegative edge
	5	Decade counter, King counter		triggered, level triggered
				IC flip-flops (At least one
				IC each of D latch , D flip-
				flop, JK flip-flops).
13th	1	UNIT 10 Shift Register	1-3	Verification of truth table
		Introduction and basic concepts including		for encoder and decoder
	2	Shift left and Shift right.	_	ics, mux and Demux
	2	Parallal in parallel out, serial in serial out		
144	3	Paraller III serial out, paraller III paraller out	1 0	To decign a 4 bit SISO
1401	2	LINIT 11 A/D and D/A Convertors	1-5	SIDO DISO DIDO shift
	2	Working principle of A/D and D/A converters		registers using IK/D flin
	2	Brief idea about different techniques of Λ/D	-	flops and verification of
	5	conversion and study of : Stair step Ramp		their operation
		A/D converter		
15th	1	Dual Slope A/D converter	1-3	To design a 4 hit ring
1500	-	Successive Approximation A/D Converter	1 3	counter and verify its
	2	Detail study of : Binary Weighted D/A		operation.
		converter. R/2R ladder D/A converter		
	3	Applications of A/D and D/A converter	-	
16th	1	UNIT 12 Semiconductor Memories	1-3	Use of Asynchronous
		Memory organization, classification of		Counter ICs (7490 or
		semiconductor memories (RAM, ROM,		7493)
		PROM, EPROM,]	
	2	EEPROM), static and dynamic RAM,		
		introduction to 74181 ALU IC		
	3	REVISION		

Lesson Plan (Odd Semester)

Discipline: Computer EngineeringDepartment: Computer EngineeringSemester: 5THSubject: Web Development Using PHPLesson Plan Duration:15 weeks

Week		Theory	Theory Practical			
	Lecture day	Торіс	Practical day	Торіс		
	aay	(including assignment /	uay			
		test)				
1st	1st	Introduction to PHP	1	Design PHP based web pages using correct PHP CSS and		
	2nd	How PHP Works		XHTML syntax, structure		
	3rd	The php.ini File, Basic PHP Syntax				
2 nd	4 th	PHP Tags	2	Design PHP based web pages		
	5 th	PHP Statements and Whitespace		XHTML syntax, structure		
	6 th	PHP Statements and Whitespace				
3rd	7 th	Variable Types	3	Design PHP based web pages		
	8 th	Variable Names (Identifiers		XHTML syntax, structure		
	9 th	Type Strength, Variable Scope				
4 th	10 th	Constants, assisgnment	4	Create Web forms and pages that properly use HTTP GET and		
	11 th	Variable-Testing		POST protocol as appropriate		
	12 th	Manipulation Functions				
5 th	13 th	Operators: Strings	5	Create Web forms and pages that properly use HTTP GET and		
	14 th	Arrays, comments				

	15 th	Sessional test		POST protocol as appropriate
6 th	16 th	Methods and Functions	6	Create Web forms and pages that
	17 th	Built in functions		POST protocol as appropriate
	18 th	User-defined functions		
7 th	19 th	Function arguments, Returning values	7	Design SQL language within MySQL and PHP to access and
	20 th	Variable functions	•	manipulate databases
	21 st	Anonymous functions		
8 th	22 nd	Control statements	8	Design SQL language within
	23 rd	Conditional Processing	•	manipulate databases
	24 th	If Conditions , assignment		
9 th	25 th	Loops : while loop	9	Install and configure both PHP
	26 th	dowhile, for loops		
	27 th	break and continue		
10 th	28 th	PHP forms	10	Install and configure both PHP
	29 th	Login Security Authentication(User logins)		and MySQL
	30 th	Sessional test		
11 th	31 st	Authorization (Permissions)	11	Create PHP code that utilizes the commonly used API library
	32 nd	Encryption		functions built in to PHP.
	33 rd	Session Cookies		
12 th	34 th	PHP Mail	12	Create PHP code that utilizes the
	35 th	PHP Mail	-	functions built in to PHP.
	36 th	File Handling	•	
13 th	37 th	File Handling	13	Design and create a complete
	38 th	File Uploading	•	PHP/MySQL client/server design
	39 th	File Uploading, assignment		
14 th	40 th	Introduction to MySQL	14	Design and create a complete
	41 st	Database design		web sile that demonstrates good

	42 nd	Database Development using MySql		PHP/MySQL client/server design
15 th	43 rd	PHP Connectivity with MySQL	15	Design and create a complete web site that demonstrates good
	44 th	PHP Connectivity with MySQL		
	45 th	Sessional Test		

Lesson Plan

Discipline : Computer Engg.

Semester : Vth

Subject :Computer Network

Lesson Plan Duration: 16 Weeks

Work Load (Lecture / Practical) per week (In hours): Lecture-4, Practical-2)

Week	Theory		Practical		
	Lecture Day	Topic (Including Assignment / Test)	Practical Day	Торіс	
1	1	Models of network computing, Networking Models		Recognize the physical topology	
	2	Peer to peer network, Server Client Network, Network Services	1	and cabling (coaxial, OFC, UTP,	
	3	Concept of switching Switching Techniques	-	STP) of a network	
	1	Assignment And Revision		Recognition and use of various types of connectors RJ-45, RJ-	
2	2	OSI Reference Model	2		
	3	Function of various layers in OSI Reference Model	-	11,BNC	
	1	Function of various layers in OSI Reference Model		Decognition of notwork dovices	
3	2	Function of various layers in OSI Reference Model	3	(Switches, Hub, Routers of access points for Wi-Fi	
	2	Function of various layers in OSI Reference Model	-		
	5	Function of various layers in OSI Reference Model			
4	2	Assignment And Revision	4	Making of cross cable and	
	3	Concent of physical and logical addressing		straight cable	
	1	IPV4 addressers- Address space Notations Classful Addressing Class			
5	2	Classless Addressing Network Address Translation	5	Viva Voice	
	3	Different classes of IP addressing, special IP address			
	1	Sub netting and super netting.Loop Back concept			
6	2	Sub netting and super netting.Loop Back concept	6	Study and Demonstration of	
	3	IPV4 and IPV6 packet Format		sub netting of IP address	
	1	IPV4 and IPV6 packet Format			
7	2	Assignment And Revision	7	Study and Demonstration of	
	3	Test 1	1	sub netting of IP address	
	1	Ethernet Specification and Standardization		Identify the IP address of a workstation and the class	
8	2	10 Mbps (Traditional Ethernet), 10 Mbps (Fast Ethernet)	8		
	3	10 Mbps (Traditional Ethernet), 10 Mbps (Fast Ethernet)		of	
	1	1000 Mbps (Gigabit Ethernet)		Identify the IP address of a	
9	2	Introduction to Media Connectivity (Leased lines, ISDN, PSTN	9	workstation and the class of	
	3	RF, DSL, VSAT, Optical and IPLC)		the address and configure the	
	1	Introduction to Media Connectivity (Leased lines, ISDN, PSTN		Install and configure a network interface card in a	
10	2	RF, DSL, VSAT, Optical and IPLC)	10		
	3	Assignment And Revision		workstation.	
	1	Test 2			
11	2	Network connectivity Devices:-NICs	11	Viva Voice	
	3	Hubs, bridges, Repeaters, switches			
	1	Hubs, bridges, Repeaters, switches		Installation of Network	
12	2	Multiplexers, Modems	12		
	3	Routers,Gateways		operating system (NOS)	
12	1	Routers,Gateways	12	Installation of Network	
15	2	Assignment And Revision	15	Operating System(NOS)	
	3	Trouble Shooting process			
14	2		1/	Use of Netstat and its options	
	2	Virocharp / Depiffor / Dep	14		
	3	Vileshalp/ Dshifter/ Pcop			
15	2	IEEE 002.11Architecture	15		
	2	Bluetooth- Architecture			
	1	Bluetooth- Architecture			
16	2	Assignment And Revision	16	Viva Voice	
10	2	Tort 2		viva voice	
		16363	1	1	

LESSON PLAN

DISCIPLINE: - CSE SEMESTER:-5TH SUBJECT—Computer Programming Using Python Lesson Plan Duration: - 15 weeks Work Load (Lecture/Practical) per week (In hours): Lecture 03, Practical -06

Week	Theory			Practical		
	Lecture Day	Topic (including assignment/test)	Practical Week	Торіс		
1 st	1st	Brief History of Python, Python Versions, Installing Python, Environment Variables	1st	 Getting started with Python and IDLE in interactive and batch modes 		
	2nd	Executing Python from the Command Line,IDLE,Editing Python, Files,Python Documentation				
	3rd	Getting Help,Dynamic,Types,Python Reserved Words,Naming Conventions				
2 nd	4th	Basic Syntax,Comments,StringValues,String Operators	2nd	2. What do the following string methods do?lower		
	5th	String Methods,The format Method,Numeric Data Types,Conversion Functions		countreplace		
	6th	Simple Output,Simple Input, The % Method,The print Function				
3 rd	7th	Indenting Requirements, The if Statement	3rd	3. Write instructions to perform each of the steps		
	8th	Relational and Logical Operators, Bit Wise Operators		below (a) Create a string containing at		
	gth	The while Loop		 least five words and store it in a variable. (b) Print out the string. (c) Convert the string to a list of words using the string split method. (d) Sort the list into reverse alphabetical order using some of the list methods (you might need to use dir(list) or help(list) to find appropriate methods). (e) Print out the sorted, reversed list of words 		

4 th	10th	break and continue	4th	4. Write a program that determines whether the number is prime?What is		
	11 th	The for Loop		your favorite number? 24		
	12 th	Introduction		24 is not prime What is your favorite number? 31 31 is prime		
5th	13th		5th	of 17, but not the multiple of 5,		
	14 th	Tuples		between 2000 and 2500?		
	15 th	Sets				
6 th	16 th	Dictionaries	6 th	Swap two integer numbers using a temporary variable. Repeat the		
	17 th	Sorting Dictionaries		exercise using the code format: a, b = b,		
	<u>18</u> th	Copying Collections		both the cases		
7th	19th	Summary	7th	7.Find the largest of n numbers, using a		
	20th	Introduction, Defining Your Own	_	user defined function largest().		
	21 st	Function Documentation, Keyword and Optional Parameters Passing Collections to a Function				
gth	<u>22</u> nd	Variable Number of Arguments Scope	gth	8.Write a function myReverse()		
	23rd	Functions - "First Class citizens", Passing Functions to a Function,map		returns the reverse of the string.		
	24th	Filter, Mapping Functions in a Dictionary				
9th	25th	Lambda, Inner Functions, Closures	9th	9.Check if a given string is palindrome or not		
	26 th Modules,Standard Modules Standard Modules - math	Modules,Standard Modules – sys Standard Modules - math				
	27th	Standard Modules – time, The dir Function				
10 th	28th	Errors, Runtime Errors	10th	10. Check if a given string is		
	29th	The Exception Model, Exception Hierarchy	1			
				1		

	30th	Handling Multiple, Exceptions, Raise		
11th	31 st	Assert, Introduction, Data Streams	11 th	11.WAP to convert Celsius to
	32nd	Creating Your Own Data		Fahrenheit
		Streams, Access Modes,Writing Data to a File		
	33rd	Reading Data From a File, Additional		
		File Methods, Using Pipes as Data Streams,		
		Handling IO Exceptions		
12 th	34th	Classes in Python, Principles of Object Orientation	12 th	12. Find the ASCII value of
				charades
	35th	Creating Classes		
	36 th	Instance Methods		
13th	37th	File Organization	13th	13.WAP for simple calculator
	38th	Special Methods		
	39th	Class Variables		
14th	40 th	Inheritance	14th	Revision of Practicals
	41st	Polymorphism		
	42nd	Introduction, Simple Character		
		Matches, Special , Characters, Character Classes		
15 th	43rd	Quantifiers, The Dot Character, Greedy Matches	15th	VIVA-VOCE
	44th	Grouping, Matching at Beginning or End, Match Objects,		
	45th	Substituting a string, Compiling Regular Expressions, Flags		

Lesson Plan

Discipline : Computer Engg.

Semester : Vth

Subject :Cloud Computing

Lesson Plan Duration: 16 Weeks

Work Load (Lecture / Practical) per week (In hours): Lecture-3, Practical-3)

WEEK NO.	DAY	THEORY TOPIC COVERED	WEEK NO.	PRACTICAL DONE		
1	1	Evolution of Cloud Computing	1			
	2	Evolution of Cloud Computing				
	3	Cloud Computing Overview	-			
2	1	Characteristics	2	Introduction to Cloud Vendors:		
-	2	Applications		Amazon, Microsoft, IBM.		
	3	Benefits and Challenges.	_			
3	1	Revision	3			
	2	Cloud Computing Service Models				
	3	Infrastructure as a Service				
4	1	Platform as a Service, Software as a Service:	4			
	2	Cloud Computing Deployment Models	-			
	3	Private Cloud and Public Cloud				
5	1	Community Cloud and Hybrid Cloud	5	 Setting up Virtualization using Virtual box/VMWare Hypervisor 		
	2	Major Cloud Service providers	-			
	3	Seminar and Assignment				
6	1	Test	6			
	2	Overview of SLA	1			
	3	Types of SLA		Introduction to Own Cloud		
7	1	SLA Life Cycle	7			
	2	SLA Management Process				
	3	Revision and Seminar				
8	1	Test	8			
	2	Overview of Virtualization		lastellation and an finanction of		
	3	Types of Virtualization		Installation and configuration of		
9	1	Types of Virtualization	9	Owncloud software for Saas		
	2	Benefits of Virtualization				
	3	Hypervisors				
10	1	Revision and seminar	10			
	2	Assignment]	According Microsoft A7UDE cloud		
	3	Test				
11	1	Infrastructure Security	11	services		
	2	Data Security & Privacy Issues				
	3	Legal Issues in Cloud Computing				
12	1	Legal Issues in Cloud Computing	12			
	2	Storage as a Service]			
	3	Benefits and Challenges				
13	1	Storage Area Networks (SANs).	13	Cloud Simulation Software Introduction: Cloud Sim		
	2	Scheduling problem	7			
	3	Different types of scheduling	7			
14	1	Different types of scheduling	14	Revision of practical		
	2	Scheduling for independent tasks				
	3	Scheduling for dependent tasks				

	1	Scheduling for independent and dependent tasks		
15	2	Scheduling for independent and dependent tasks	15	Viva Voice
	3	Static vs. Dynamic scheduling		
	1	Static vs. Dynamic scheduling		
16	2	Assignment And Revision	16	
	3	3rd Sessional		