Lesson Plan

Name of the Faculty : Umesh Saroj

Discipline : ECE G P Jhajjar

Semester : 1ST

Subject : FUNDAMENTALS OF INFORMATION TECHNOLOGY

Lesson Plan Duration : 15 weeks (from Sept 2023 to Jan 2024)

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

Week		Theory	Practical	
	Lectur eday	Topic (including assignment / test)	Practical Day	Topic
	1 st	Basics of Computer Brief history of development of computers, Definition of Computer	1st browsii search	Prac. 1 1. Browser features,
1 st	2 nd	Block diagram of a Computer, Hardware, Software, Booting: Cold and Hot Booting		browsing, using various search engines, writing search queries
	3 rd	Interaction between the CPU and Memory with Input/Output devices		
2 nd	4 th	Function of CPU and major functional parts of CPU.Memory	2nd	Prac. 2 . Visit various e- governance/ Digital India portals, understand their features, services offered.
	5 th	Bit, Nibble, Byte, KB, MB, GB, TB, PB, Functions of memory, Use of storage devices in a Computer		
	6 th	List types of memory used in a Computer, Importance of cache memory		

	7 th	CPU speed and CPU word length		Prac. 3
3 rd	8 th	Basic Internet Skills Understanding browser, Introduction to WWW	old	Read Wikipedia pages on computer hardware components, look at those
	9 th	efficient use of search engines,		components in
				lab, identify them, recognize various ports/interfaces and related cables, etc.
4 th	10 th	awareness about Digital India portals (state and national portals) and college portals.	4th	Prac. 4 4. Using Administrative Tools/Control Panel Settings of Operating Systems
	11 th	Advantages of Email Various email service providers, Creation of email id		
	12 th	sending and receiving emails,		
	13 th	attaching documents with email and drive.		Prac. 5 5. Connect various peripherals (printer, scanner, etc.) to computer, explore various
5 th	14 th	Effective use of Gmail, G-Drive, Google Calendar, Google Sites, Google Sheets	5th	
	15 th	Online mode of communication using Google Meet & WebEx.		features of peripheral and their device
	16 th	Basic Logic building Introduction to Programming, Steps involved in problem solving,		Prac. 6 6. Explore features of Open
6 th	17 th	Definition of Algorithm, Definition of Flowchart	6th	Office tools and MS-Office, create documents, create presentation, create spread sheet, using these features, do it multiple times
	18 th	Steps involved in algorithm development,		
⇒th	19 th	differentiate algorithm and flowchart		Prac. 7
7 th	20 th	symbols used in flowcharts	7th	7. Working with Conversion Software like pdf To Word, Word To PPT, etc.
	22 nd	algorithms for simple problems		Prac. 8
8 th	23 rd	flowcharts for simple problems,	8th	8. Working with Mobile
	24 th	Practice logic building using flowchart/algorithms		Applications – Searching for Authentic Mobile app, Installation and Settings, Govt. of India Mobile Applications
	25 th	Office Tools like LibreOffice		Prac. 9
9 th	26 th	OpenOffice	9th	9. Creating email id,

	27 th	MSOffice.		sending and receiving mails with attachments.
10 th	28 th	OpenOffice Writer – Typesetting Text and Basic Formatting	10th	Prac 10 10. Using Google drive, Google calendar
	29 th	Inserting Images, Hyperlinks, Bookmarks		
	30 th	Tables and Table Properties in Writer		
	31 st	Introducing LibreOffice/OpenOffice Calc, Working with Cells, Sheets, data		11. Create Flow chart and
11 th	32 nd	tables, using formulae and functions, using charts and graphics		Algorithm for the following: a. Addition of n numbers and display result b. To convert temperature from Celsius to Fahrenheit c. To find Area and Perimeter of Square
	33 rd	OpenOffice Impress – Creating and Viewing Presentations, Inserting Pictures and Tables		
	34 th	Slide Master and Slide Design		d. Swap Two Numbers
12 th	35 th	Custom Animation	12th	e. find the smallest of two numbers
	36 th	Use of Social Media		f. Find whether given number is Even or Odd
	37 th	Introduction to Digital Marketing – Why Digital Marketing	13th	g. To print first n even Numbers
13 th	38 th	Characteristics of Digital Marketing, Tools for Digital Marketing		h. find sum of series 1+2+3++N
	39 th	Tools for Digital Marketing		i. print multiplication Table of a number
	40 th	Effective use of Social Media like LinkedIn,		j. generate first n Fibonacci
14 th		Google+,	14th	terms 0,1,1,2,3,5n (n>2)
	41 st	Facebook		k. sum and average of given series of numbers
	42 nd	Twitter, etc.: Features of Social media,		I. Factorial of number n (n!=1x2x3xn)
				m. Armstrong Number
15 th	43 rd	Advantages of Social Media.		Revision
	44 th	Disadvantages of Social Media.	15th	
	45 th	Revision		