Lesson Plan

Name of the Faculty :	Sh. Manvendra Nath Tripathi (T)	
Discipline :	Mechanical Engineering	
Semester :	1 st	
Subject :	FUNDAMENTALS OF IT	
Lesson Plan duration :	15 weeks (from 01.09.2023 to 15.12.2023)	

	Theory		Execution	
Week	Lecture	Topic (Including assessment/test)	Date	Sign.
1 st	1 st	UNIT I : Basics of Computer Brief history of development of computers, Definition of Computer,		
	2^{nd}	Block diagram of a Computer, Hardware, Software, Booting: Cold and Hot Booting,		
2 nd	3 rd	Interaction between the CPU and Memory with Input/Output devices, Function of CPU and major functional parts of CPU.		
-	4 th	Memory, Bit, Nibble, Byte, KB, MB, GB, TB, PB,		
3 rd	5 th	Functions of memory, Use of storage devices in a Computer, List types of memory used in a Computer,		
3	6 th	Importance of cache memory, CPU speed and CPU word length		
4 th	7 th	UNIT II Basic Internet Skills Understanding browser, Introduction to WWW, efficient use of search engines,		
	8 th	awareness about Digital India portals (state and national portals) and college portals.		
5 th	9 th	Advantages of Email, Various email service providers, Creation of email id, sending and receiving emails, attaching documents with email and drive.		
	10 th	Effective use of Gmail, G-Drive, Google Calendar, Google Sites, Google Sheets,		
6th 11 th		Online mode of communication using Google Meet & WebEx.		
	12 th	1 st Sessional Test (Tentative)		
$7^{ m th}$	13 th	UNIT III: Basic Logic building Introduction to Programming, Steps involved in problem solving, Definition of Algorithm, Definition of Flowchart,		
	14 th	Steps involved in algorithm development, differentiate algorithm and flowchart, symbols used in flowcharts,		

	15 th	algorithms for simple problems, flowcharts for simple	
8 th	16 th	problems, Practice logic building using flowchart/algorithms	
	17 th	UNIT IV: Office Tools Office Tools like LibreOffice/OpenOffice/MSOffice.	
9th 18 th		OpenOffice Writer – Typesetting Text and Basic Formatting, Inserting Images, Hyperlinks, Bookmarks, Tables and Table Properties in Writer	
10 th	19 th	Introducing LibreOffice/OpenOffice <i>Calc</i> , Working with Cells, Sheets, data, tables, using formulae and functions, using charts and graphics.	
	20^{th}	2 nd Sessional Test (Tentative)	
11 th	21 st	Introducing LibreOffice/OpenOffice <i>Calc</i> , Working with Cells, Sheets, data, tables, using formulae and functions, using charts and graphics.	
	22^{nd}	OpenOffice Impress – Creating and Viewing	
	23 rd	Presentations, Inserting Pictures and Tables, Slide Master and Slide Design, Custom Animation.	
12 th	24 th	UNIT V :Use of Social Media Introduction to Digital Marketing – Why Digital Marketing, Characteristics of Digital Marketing	
13 th	25 th	Tools for Digital Marketing, Effective use of Social Media like LinkedIn, Google+, Facebook, Twitter, etc.	
15	26 th	Tools for Digital Marketing, Effective use of Social Media like LinkedIn, Google+, Facebook, Twitter, etc.	
14 th	27 th	Features of Social media, Advantages and Disadvantages of Social Media.	
14	28 th	3rd Sessional Test (Tentative)	
15 th	29 th	Revision	
15	30 th	Revision	
16 th	31 st	Revision	
16 th	32 nd	Evaluation	

Lesson Plan

Name of the Faculty	:	Sh. Abhay Tiwari (P-G1), Sh. Manvendra Nath Tripathi (P-G2)
Discipline	:	Mechanical Engg.
Semester	:	1 st
Subject	:	FUNDAMENTALS OF IT
Lesson Plan duration	:	15 weeks (from 01.09.2023 to 15.12.2023)
Work load per week	:	Lecture – 02, Practical – 04

Week		EXECUTION			
	Practical Dav	Торіс	G1	G2	Sign.
1 st	Day 1 st	1. Browser features, browsing, using various search engines, writing search queries			
2 nd	2 nd	2. Visit various e-governance/Digital India portals, understand their features, services offered			
3 rd	3 rd	3. Read Wikipedia pages on computer hardware components, look at those components in lab, identify them, recognize various ports/interfaces and related cables, etc.			
4 th	4 th	4. Using Administrative Tools/Control Panel Settings of Operating Systems			
5 th	5 th	5. Connect various peripherals (printer, scanner, etc.) to computer, explore various features of peripheral and their device driver software.			
6 th	6 th	Checking of Practical file/ 1st sessional test (Tentative)			
7 th	7 th	 6. Explore features of Open Office tools and MS-Office, create documents, create presentation, create spread sheet, using these features, do it multiple times 7. Working with Conversion Software like pdf To Word, Word To PPT, etc. 			
8 th	8 th	8. Working with Mobile Applications – Searching for Authentic Mobile app, Installation and Settings, Govt. of India Mobile Applications			

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9 th	9 th	9. Creating email id, sending and receiving	
		mails with attachments.	
toth	1 oth	10. Using Google drive, Google calendar	
10 th	10^{th}	Checking of Practical file/	
		2nd sessional test (Tentative)	
11 th	11 th	11. Create Flow chart and Algorithm for	
		the following	
		i. Addition of n numbers and display result	
		ii. To convert temperature from Celsius to Fahrenheit	
		iii. To find Area and Perimeter of Square	
		iv. Swap Two Numbers	
12 th	12 th	v. find the smallest of two numbers	
		vi. Find whether given number is Even or Odd	
		vii. To print first n even Numbers	
		viii. find sum of series 1+2+3++N	
		ix. print multiplication Table of a number	
13 th	13 th	x. generate first n Fibonacci terms 0,1,1,2,3,5n (n>2)	
		xi. sum and average of given series of numbers	
		xii. Factorial of number n (n!=1x2x3xn)	
		xiii. Armstrong Number	
		xiv. Find whether given number is Prime or	
		not	
14 th	14 th	Checking of Practical file/	
		3rd sessional test (Tentative)	
15 th	15 th	Revision	
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