

### Lesson Plan

**Name of the Faculty** : Sanjeev Kumar  
**Discipline** : Computer Engg.  
**Semester/Year** : 1st Year  
**Subject** : Computer Fundamentals  
**Lesson Plan Duration** : 35 Weeks

**Work Load (Lecture) per week (In Hours): Lectures-03**

Week	Theory	
	Lecture Day	Topic(Including assignment/test)
1st	1 <sup>s</sup> <sup>t</sup>	Draw the block diagram of a Computer
	2 <sup>n</sup> <sup>d</sup>	Explain the interaction between the CPU, Memory Input /Output devices
	3 <sup>r</sup> <sup>d</sup>	Describe the function of CPU and major functional parts of CPU
2 <sup>n</sup> <sup>d</sup>	1 <sup>s</sup> <sup>t</sup>	Describe the function of memory
	2 <sup>n</sup> <sup>d</sup>	Describe the function of input/output devices
	3 <sup>r</sup> <sup>d</sup>	State the relevance of speed and word length for CPU Performance
3 <sup>r</sup> <sup>d</sup>	1 <sup>s</sup> <sup>t</sup>	Recognize the current family of CPUs used in Computers
	2 <sup>n</sup> <sup>d</sup>	State the use of storage devices used in a Computer
	3 <sup>r</sup> <sup>d</sup>	List types of memory used in a Computer
4 <sup>t</sup> <sup>h</sup>	1 <sup>s</sup> <sup>t</sup>	State the importance of cache memory
	2 <sup>n</sup> <sup>d</sup>	Generations of computers.
	3 <sup>r</sup> <sup>d</sup>	Classification of computers -based on size, processor
5 <sup>t</sup> <sup>h</sup>	1 <sup>s</sup> <sup>t</sup>	Know importance of binary number system for use in Digital Computers
	2 <sup>n</sup> <sup>d</sup>	List the various number systems used in digital Computer
	3 <sup>r</sup> <sup>d</sup>	Convert decimal number into binary number.

6 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Convert binary number into decimal number
	2 <sup>n</sup> <sup>d</sup>	Convert binary number into hexadecimal number
	3 <sup>r</sup> <sup>d</sup>	Convert hexadecimal number into binary number
7 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Understand the ASCII coding scheme.
	2 <sup>n</sup> <sup>d</sup>	Understand the EBCDIC coding scheme
	3 <sup>r</sup> <sup>d</sup>	Revision
8 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Describe the need for an operating system
	2 <sup>n</sup> <sup>d</sup>	List the various operating system used presently
	3 <sup>r</sup> <sup>d</sup>	DOS Prompt, Types of Commands, Internal & External Commands
9 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	DOS Prompt, Types of Commands, Internal & External Commands
	2 <sup>n</sup> <sup>d</sup>	Directories and files , wild cards, autoexec.bat, config.sys
	3 <sup>r</sup> <sup>d</sup>	Directories and files , wild cards, autoexec.bat, config.sys
10 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	List the features of Window desktop
	2 <sup>n</sup> <sup>d</sup>	List the features of Window desktop
	3 <sup>r</sup> <sup>d</sup>	List the components of Window
11 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	List the components of Window
	2 <sup>n</sup> <sup>d</sup>	List the components of Window
	3 <sup>r</sup> <sup>d</sup>	State the function of each component of Window
12 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	State the function of each component of Window
	2 <sup>n</sup> <sup>d</sup>	State the function of each component of Window
	3 <sup>r</sup> <sup>d</sup>	State the function of each component of Window
13 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the method of starting a program using start button
	2 <sup>n</sup> <sup>d</sup>	Understand maximize, minimize, restore down and close button
	3 <sup>r</sup> <sup>d</sup>	State the meaning of a file
14 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	State the meaning of a folder

	2 <sup>n</sup> <sup>d</sup>	Explain the method of viewing the contents of hard disk drive using explore option
	3 <sup>r</sup> <sup>d</sup>	Explain the method of viewing the contents of hard disk drive using explore option
15 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the method of finding a file using search option
	2 <sup>n</sup> <sup>d</sup>	Explain the method of finding a file using search option
	3 <sup>r</sup> <sup>d</sup>	Explain formatting a floppy disk using explore option
16 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain formatting a floppy disk using explore option
	2 <sup>n</sup> <sup>d</sup>	Describe installing new software using control panel
	3 <sup>r</sup> <sup>d</sup>	Describe installing new software using control panel
17 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Describe uninstalling software using control panel
	2 <sup>n</sup> <sup>d</sup>	Describe uninstalling software using control panel
	3 <sup>r</sup> <sup>d</sup>	Revision
18 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain installing a new hardware using control panel
	2 <sup>n</sup> <sup>d</sup>	Explain installing a new hardware using control panel
	3 <sup>r</sup> <sup>d</sup>	Revision
19 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain uninstalling a hardware using control panel
	2 <sup>n</sup> <sup>d</sup>	Explain uninstalling a hardware using control panel
	3 <sup>r</sup> <sup>d</sup>	Narrate finding out drive space using system tool option of accessories group
20 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the procedure of disk defragmentation using system tool
	2 <sup>n</sup> <sup>d</sup>	Explain the procedure of disk defragmentation using system tool
	3 <sup>r</sup> <sup>d</sup>	Narrate installing a Printer using control panel

21 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the procedure for changing resolution, colour, appearances, and screensaver option of the display
	2 <sup>n</sup> <sup>d</sup>	Narrate the process of changing the system date and time
	3 <sup>r</sup> <sup>d</sup>	Explain meaning of a computer network
22 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Describe the concept of a local area network
	2 <sup>n</sup> <sup>d</sup>	Describe the concept of a local area network
	3 <sup>r</sup> <sup>d</sup>	Explain the concept of wide area network
23 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the concept of wide area network
	2 <sup>n</sup> <sup>d</sup>	Compare internet & intranet
	3 <sup>r</sup> <sup>d</sup>	Revision
24 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Describe the relevance of an internet service provider
	2 <sup>n</sup> <sup>d</sup>	Explain the role of the modem in accessing the internet
	3 <sup>r</sup> <sup>d</sup>	Revision
25 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the installation procedure of a modem using control panel
	2 <sup>n</sup> <sup>d</sup>	Explain the purpose of web browser software
	3 <sup>r</sup> <sup>d</sup>	Revision
26 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Explain the structure of a Universal Resources Locator(URL)
	2 <sup>n</sup> <sup>d</sup>	Explain the structure of a Universal Resources Locator(URL)
	3 <sup>r</sup> <sup>d</sup>	Describe the purpose of World Wide Web, FTP, telnet and E-mail
27 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Describe the purpose of World Wide Web, FTP, telnet and E-mail
	2 <sup>n</sup> <sup>d</sup>	Explain the process of sending and receiving e-mail
	3 <sup>r</sup> <sup>d</sup>	Understand different connection methods
28 <sup>th</sup>	1 <sup>s</sup> <sup>t</sup>	Understand different connection methods
	2 <sup>n</sup> <sup>d</sup>	Describe address format and IP address
	3 <sup>r</sup> <sup>d</sup>	Describe address format and IP address

29 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Describe DNS
	2 <sup>n<sup>d</sup></sup>	Describe the role of search engines with examples
	3 <sup>r<sup>d</sup></sup>	Differences between search engines and directory.
30 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Know about social network sites
	2 <sup>n<sup>d</sup></sup>	Understand internet security
	3 <sup>r<sup>d</sup></sup>	Understand internet security
31 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	State the different steps involved in problem solving
	2 <sup>n<sup>d</sup></sup>	State the different steps involved in problem solving
	3 <sup>r<sup>d</sup></sup>	State the steps involved in algorithm development
32 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Differentiate algorithm and flowchart
	2 <sup>n<sup>d</sup></sup>	Differentiate algorithm and flowchart
	3 <sup>r<sup>d</sup></sup>	Develop algorithms for simple problems
33 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Develop algorithms for simple problems
	2 <sup>n<sup>d</sup></sup>	Develop algorithms for simple problems
	3 <sup>r<sup>d</sup></sup>	Develop algorithms for simple problems
34 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Develop algorithms for simple problems
	2 <sup>n<sup>d</sup></sup>	Draw the symbols used in flowcharts
	3 <sup>r<sup>d</sup></sup>	Draw the symbols used in flowcharts
35 <sup>th</sup>	1 <sup>s<sup>t</sup></sup>	Draw flowcharts for simple problems
	2 <sup>n<sup>d</sup></sup>	Draw flowcharts for simple problems
	3 <sup>r<sup>d</sup></sup>	Draw flowcharts for simple problems