COMPUTER APPLICATION

TH-4
Periods/Week-05   **Examination- 03hrs**
Total periods- 75   **TH-80   IA-20**

Topic wise Distribution of periods

Sl. No.	Topic	No. of periods
1	Computer Organisation	15
2	Software concepts	15
3	Introduction to Internet	10
4	Problem Solving Methodology	05
5	Overview of C Program	15
6	Arrays & Pointer	15
	Total	75

Objective:

The students will get to know about the generation of computers and their development. They will be made acquainted with various operating systems. A brief knowledge about Internet is necessary. The students will be given a brief knowledge about Programming methodology and a detailed in depth knowledge on C programming which is essential.

1.   Computer Organisation   15 periods
Evolution of Computers
Generation of Computers
Classification of Computers
Computer architecture
Functional block diagram of Computer
Input devices ,CPU, Output devices
Different types of Memories and their classifications
2.   Software concepts   15 periods
Software concept
System Software ,
Application Software
Overview of Operating System , objectives, functions,
Different Types of operating system
Features of DOS, Windows, & Unix
Programming languages
Compiler, interpreter
Computer Virus
Detection and Prevention of Virus
Application of computers in different domains.
3.   Introduction to Internet   10 periods
Networking concept.
Application of Internet in different domain like – education, entertainment, business, office
e-mail message format
Sending & receiving e-mail (one – to one & one to many)

Different types of internet connectivity
4. Problem Solving Methodology   **5 periods**
Algorithm
Pseudocode
Flowchart
Examples of Problem solving through Flowchart

5. Overview of C Program   **15 periods**
Constants, Variables & data types.
Managing input & Output operations
Operators & Expression
Decision Making & Branching (If, Switch, Goto, While, Do , For statements)

6. Arrays & Pointer   **15 periods**
1 Dimensional, 2 Dimensional Array
Character arrays & Strings
Function in C
Recursions
Passing array to function & strings to functions.
Pointer , Structure, Union (concept only no programming).

Reference Books :

1.0 Computing Fundamentals & C Programming : By: E. Balagurusami (TMH)
2.0 Programming In ANSI C : By : A.N.Kamthane (Pearson Education)
3.0 Let us C : By : Y Kanetkar (BPB)
4.0 Computer Fundamentals By; D.P.Nagpal, S.Chand
5.0 Comdex Computer Course Kit By : Vikas Gupta, Dreamtech – 1 (For Practical)
6.0 Introduction to computer with MS-Office , TMH (For Practical)