

Fourth Semester

(B.A/B.Com/B.Sc Non – Computer Science)

4.6	COMPUTER APPLICATIONS		
Teaching	: 4 Hrs. /Week	Max. Marks	: 70
Total Hours	: 50 Hrs	I.A Marks	: 30

Unit I – Introduction to Programming Overview of C: 12Hrs.

Definition, Problem Solving using Computer. Introduction, Importance of 'C', Sample C Programs, Basic Structure of 'C' Program, Programming Style, Executing a 'C' Program. **Constants, Variables & Data Types:** C Tokens, Keywords & Identifiers, Constants, Variables, Data Types. Declaration of Variables, Assigning values to variables, Defining symbolic constants.

Unit II – Operations & Expressions: 12Hrs.

Arithmetic Operations, Relational Operations, Logical Operations, Assignment Operations, Increment & Decrement Operations, Conditional Operations, Bitwise Operations, Special Operations, Arithmetic Expressions, Evaluation of Expressions, Precedence of Operators, Type Conversions in Expressions, Mathematical Functions.

Unit III – Managing Input & Output Statements: 10Hrs.

Reading a Character, Writing a Character, Formatted Input, Formatted Output Statements.

Unit IV – Computer Electronics: 8Hrs.

Number System: Binary, Octal, Decimal & Hexadecimal Number System. Binary Arithmetic: Addition, Subtraction-using 1's and 2's complement. Digital Logic: AND, OR, NOT, NAND, NOR, Universal Gates.

Unit V – Internet Tools: 8Hrs.

Concept of Networking- LAN, WAN, MAN, Internet, Intranet & Extranet, Definition of Web Page and HTML, Website and Web Addresses, Web Browsing Tools – Internet Explorer/Netscape Navigator, ISP's in India and their responsibilities, E-mail, Chatting, Video Conference, Search Engines, Downloading and Uploading Files.

Prescribed Books:

1. P.B. Kottur, Computer Concepts & C Programming 17th Edition.
2. Rajaraman, V.Fundamentals of Computer, 2nd Edition, Prentice Hall India Limited.
3. Y P Kanetkar, Let us C.
4. E Balagurusamy, “Programming in ANSI C”

Practical Hours: 2 Hours/week

The Students shall gain experience of writing ‘C’ Programs.

NOTE:

1. A maximum of 10 practical assignments shall be done by each student.
2. No Practical Exam.

Question Paper Pattern:**Max. Marks: 70**

Theory: The Question Paper has three Parts:

- Part-I contains 12 Questions out of which 10 Questions have to be answered. Each Question carries 2 marks. **10 X 2 = 20**
- Part-II contains 6 Questions out of which 4 Questions have to be answered. Each Question carries 2 marks. **4 X 5 = 20**
- Part-III contains 5 Questions out of which 3 Questions have to be answered. Each Question carries 2 marks. **3 X 10 = 30**

Practical: No Practical Exam.