

Fourth Semester  
Paper 4.6 Computer Applications:  
(B.A/B.Com/B.B.M/B.Sc Non-Computer Science)

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| 4.6 | <b>Computer Applications:</b> |
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Teaching : 4 Hrs. / Week Max. Marks : 70

Total Hours : 50 Hrs I. A. Marks : 30

**Unit I – Introduction to Programming Overview of C:**

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

12 hrs.

**Unit II – Operators & Expressions:**

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

12 hrs.

**Unit III- Managing Input & Output Statements:**

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

10 hrs.

**Unit IV: Computer Electronics:**

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.

8 hrs

**Unit V: Internet Tools:**

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.

8hrs.

**Prescribed Books:**

3. P.B. Kottur, Computer concepts & C Programming 17<sup>th</sup> edition.
4. Rajaraman, V. Fundamentals of Computers, 2nd Edition. Prentice Hall India Limited
5. Y P Kanetkar, Let us C
6. 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

3. **Theory:** The question paper has three parts.

Part-I contains 10 questions out of which 10 questions have to be answered. Each question carries 2 marks.

$$10 \times 2 = 20$$

Part-II contains 6 questions out of which 4 questions have to be answered. Each question carries 5 marks.

$$4 \times 5 = 20$$

Part-III contains 5 questions out of which 3 questions have to be answered. Each question carries 10 marks.

$$3 \times 10 = 30$$

4. **Practical:** No practical Exam.

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18/4/17

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