

CC – III COMPUTER PROGRAMMING

UNIT – I

Introduction to C - Identifiers and Keywords - Constants, Variables and Data types - Operators and expressions - Data Input and Output –

UNIT II

Control Structures - *if* and *switch* statements - *while*, *do-while* and *for* statements – *goto* statement - Arrays - Character strings - Simple programs.

UNIT - III

User defined Functions in C - Defining and accessing functions - Passing arguments - Function prototypes - Recursion - Storage classes - Pointer Declarations - Passing pointers to functions - Pointers and arrays - Operations on pointers - Arrays of pointers - Dynamic memory allocation.

UNIT - IV

User defined data types in C - Structures - Declaring structures and Accessing members - Array of structures - Structure within structure - Unions - File operations - open, close, reading and writing - Random access files - Linked list - Preprocessor directives - Macros - Command line arguments.

UNIT - V

Introduction to operating Systems - MS windows commands, UNIX- basic commands - General purpose, file handling, vi editor & environment – Linux – basic commands – internet browsers – Netscape, Mozilla, Internet Explorer – HTML, DHTML, XML – web page design tools – cgi-bin scripts – Linking – Text Formatting – Adding Images – Tables – Frames to web pages.

Reference Books

1. Byron S. Gottfried, Schaum's outline of Theory and Problems of Programming with C, Tata McGraw-Hill, New Delhi, 1991.
2. Brain W. Kernighan and Dennis. M. Ritchie, The C Programming Language, Second Edition, Printice-Hall of India, 1988.
3. S.Parthasarathy, Essentials of Computer Programming in C for Life Sciences, Ane Books, New Delhi, 2008.
4. Sumitabha Das, UNIX Concepts and Applications, 3rd Edition, Tata McGraw-Hill, New Delhi, 2003.
5. Thomas A. Powell, HTML & XHTML, The Complete Reference, 4th Edition, Tata McGraw-Hill, New Delhi, 2007.