

I B.Sc (Compute Science) – II Semester

Programming in C

UNIT I

C fundamentals Character Set – Identifier and Keywords – Data Types –

Constants – Variables – Declarations - Expression – Statements - Arithmetic, Unary, Relational and Logical, Assignment and Conditional Operation –Library functions.

UNIT II

Data input, output functions – Simple C Programs – Flow of Control – if, if-else, while, do-while, for loop, Nested control structures – switch, break and continue, goto statements-Comma operator.

UNIT – III

Functions – Definition – Proto types – Passing arguments – Recursion – Storage classes – Automatic, External, Static, Register variables – Multi-file programs.

UNIT – IV

Arrays – Defining and processing – passing arrays to functions – Multi dimensional arrays – Arrays and String - Structures – user Defined data types – Passing structure to functions – Self referential structures – Unions – Bit wise operations.

UNIT – V

Pointers – Declarations – Passing Pointers to Functions – Operation in pointer and arrays – Arrays of pointers – Structures and Pointers – Files – Creating, Processing, Operating and Closing a data files.

Reference Books:

1. H.Schildt, Colloge :The Complete reference, 4th Editin, TMH Edition, 2000.
2. B.W.Kernighan and D.M.Ritchie, The C Programming Language,2nd Edition, PHI 1998.
3. Kanetkar.Y. Let us Colloge BPB Publications , New Delhi 1999.