

CORE COURSE I – PROGRAMMING IN C

UNIT – I

Evaluation and applications of C – Structure of a C program – Data types – Declarations – Operators – Expressions – Type conversions – Built-in-Functions.

UNIT – II

Data Input and Output – control statements : IF, ELSE-IF, GOTO, SWITCH, WHILE-DO, DO-WHILE, FOR, BREAK and CONTINUE

UNIT – III

Functions – Defining and Accessing functions – passing parameters of functions – Arguments – recursive functions – Storage classes – Arrays: Defining and processing Arrays – Multi dimensional Arrays – passing arrays to functions – Arrays and strings – string functions – string manipulations.

UNIT – IV

Pointers – Pointer declarations – operations on pointers – pointers to functions – pointers and strings – pointers and arrays – array of pointers – structures – structures and pointers – unions.

UNIT – V

Data files – Opening, Closing and Processing files – files with structures and unions – register variables – bitwise Operations – Macros – preprocessors.

Text Book Recommended:

“Programming in C” – E.Balagurusamy – Tata McGraw Hill Publication.

Reference Book:

1. “Programming with C” – Byron S Gottifried – Schaum’s outline series – Tata McGraw Hill Publication.
2. “The Spirit of C” – Mullish Cooper – Schaum’s outline series - Tata McGraw Hill Publication.
3. “Let Us C” – Yeswant Kanetkar – BPB Publications.