

**CORE COURSE- I : PROGRAMMING IN C**

**UNIT – I**

Evolution 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 Arguments – recursive functions – storage classes – Arrays: Defining and processing Arrays – Multidimensional arrays – passing arrays to functions – Arrays and strings – String functions – String Manipulations.

**UNIT – IV**

Pointers – Pointer Declarations – Operations on pointers – pointers to functions – Pointer 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 – Preprocessing.

**Text Book:**

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

**Books for Reference:**

1. “Programming with C” – Byron S.Gottfried – Schaum’s outline series – Tata McGraw Hill Publications.
2. “The Sprit of C” – Mullish cooper – Schaum’s Outline Series – Tata McGraw Hill Publications.
3. “A first course in Programming with C” – T.Jeyapoovan, Vikas Publishing House Pvt. Ltd., New Delhi.