

## **INTRODUCTION TO 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, switch, while, do-while, for, goto, break, continue, exit and abort.

### **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:**

1. Byron S.Gottfried – Schaum's outline series, *Programming with C*, Tata McGraw Hill Publications, 1998.
2. Yashavant P.Kanetkar, *Let us C Solutions*, BPB Publications, 2005.
3. Yashavant P.Kanetkar, *Understanding Pointers in C*, BPB Publications, 2001.

### **Reference Books :**

1. E.Balagurusamy, *Programming in C*, Tata McGraw Hill Publications.
2. Mullish cooper – Schaum's Outline Series, *The Sprit of C*, Tata McGraw Hill Publications.
3. T.Jeyapoovan, *A first course in programming with C*, Vikas Publishing House Pvt. Ltd., New Delhi.