Semester : III   **Skill Based Elective : II**   Code :

PROGRAMMING IN C LANGUAGE

Hours: 2 /wk   **Credit Points: 2**

Internal Marks: 25 Marks   **External Marks: 75 Marks**

UNIT - I

Evolution of computers - computer generations - history of development of computers

UNIT - II

Input unit - output unit - Central Processing Unit (CPU) –programming languages - algorithms - flow charts - operating system -basic principle

UNIT - III

Basic structure of C - programs - constants - variables - data type –declaration of variables - defining symbolic constants, operators and expression - reading a character - writing a character – formatted input and output statements

UNIT - IV

Control statements - simple if, if – else, else - if ladder – switching statements - go to statement - break and continue looping - while-do for statements - arrays - user defined functions - string functions -streat, strcpy, strlen, strcmp - elementary idea.

UNIT - V

Development of algorithm, flow chart and program for the following

1. Average of a set of numbers

2. Area of a triangle

3. Sorting a set of numbers in ascending and descending order

4. Summing the series of numbers

5. Solving the series of numbers.

Books for study and Reference :

1. E. Balagurusamy, Programming in ANSI C, McGraw Hill Education (2012)

2. Byron Gottfried, Jitender Chhabra, Programming with C, Schaum Series (2010)

3. Henry Mullish (Author), Herbert L. Cooper (Author),The Spirit of C (1998)