

**Veer Narmad South Gujarat University, Surat**  
**Proposed Syllabus for Minor**  
**(NEP-2020)**  
**B. Sc. Sem. I**  
**SKILL BASED ELECTIVE COURSE**  
**PROGRAMMING IN “C” LANGUAGE**

<b>Unit 1</b>	
	Input unit - output unit - Central Processing Unit (CPU) –programming languages - algorithms - flow charts - operating system -basic principle, 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
<b>Unit 2</b>	
	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 -strcat, strcpy, strlen, strcmp - elementary idea.

**Experiments: -**

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 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)
4. S. Thamarai Selvi and R. Murugesan, C for all, Pearson education (2012)