SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar Bachelor of Computer Application

Semester - II

US02CBCA21 : Advanced C Programming (w.e.f June 2018)

Credits : 4 Lectures per week : 4

All units carry equal weightage.

UNIT-1: User-Defined Functions

- Introduction and need of User Defined Functions
- Components of User Defined Functions
- Categories of User Defined Functions
- Recursion

UNIT-2: Structures and Unions

- Introduction of structures
- Structures and arrays
- Structures within structures
- Structures and functions
- Unions

UNIT-3: Usage of Pointers

- Introduction, usage and understanding of pointers
- Declaration and initialization of pointer variable
- Accessing Variable through Pointer
- Chain of Pointers (Pointer to Pointer)
- Pointer arithmetic expression
- Pointers and arrays
- Pointers as function arguments
- Pointer and Structure
- Dynamic memory allocation

UNIT-4: Usage of File Handling

- Introduction to File Handling
- File Access Modes
- Input Output Operations on files
- Error Handling during I/O operations

MAIN REFERENCE BOOKS:

- 1. Balaguruswami: Programming in ANSI C., Tata McGraw Hill Publication.
- 2. Kernighan B., Ritchie D.: The C Programming Language, Prentice Hall, 1988
- 3. Cooper H. & Mullish H: The Sprit of C, Jaico Publication House, New Delhi.