Objective(s)

As, C language is koine of programming, anewbie can start their programming journey by understanding and practicing input/output using various control statements and manipulate Array & pointers of various data types.

UNIT I

Basic of programming

Introduction to Flowcharts and Algorithms, need of Computer languages and types of computer languages.

UNIT II

Introduction to C Language and its artifacts

C character set, Identifiers and keywords, Data types, Declarations, Expressions, statements and symbolic constants, Operators.

UNIT III

Input/output functions

Basic input/output library functions, control statements, storage types, Defining and accessing, passing arguments, Function prototypes, Recursion, Library functions.

UNIT IV

Arrays & String

Defining and processing Arrays, passing arrays to a function, Multi-dimensional arrays, Define String, Using String, Printing a String.

UNIT V

Pointers, Structures & Union

Define Pointer, Pointer Arithmetic, passing pointer to function, Function data return with a Pointer, define structure, passing structure to a function, Unions, typedef, array of structure and pointer to structure.

Reference Book(s)

- 1. Let US C –By Yashwant Karnetkar
- 2. C programming E.Balagurusamy Tata McGray Hill
- 3. Schaum's outline of Theory and Problems of programming with C: Gottfried
- 4. Complete reference with C Tata McGraw Hill
- 5. The C programming language :Kerninghan and Ritchie
- 6. Programming in ANSI C: Ramkumar Agarwal
- 7. Mastering C by Venugopal, Prasad TMH 8. Sprit of C

Practical(s)

- 1. Explain & Practice for structure of C program and its basic constructs
- 2. Explain & Practice for basic input/output library functions
- 3. Explain & Practice for conditional statement
- 4. Explain & Practice for Loop statements.
- 5. Practice for series programs.
- 6. Explain & Practice for functions.
- 7. Explain & Practice for Arrays.
- 8. Explain & Practice for Multidimensional array.

- 9. Explain & Practice for String manipulation.
- 10. Explain & Practice for Pointers.
- 11. Explain & Practice for structures.
- 12. Explain & Practice for union.