

Programming with C

Duration – 1 ½ Months

Module 1 - Introduction to Problem Solving-

Flow charts, Tracing flow charts, Need for computer Languages, Type of Language.

Module 2 : C Language preliminaries:

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

Module 3 : Input-Output:

getchar, putchar, scanf, printf, gets, puts, functions.

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Module 4 : Operators and expressions

Arithmetic, unary, logical, bit-wise, assignment and conditional operators

Module 5 :Control statements

While, do-while, for statements, nested loops, if else, switch, break, Continue, and goto statements, comma operators .

Module 6 : Storage types:

Automatic, external, register and static variables.

Module 7 : Functions:

Defining and accessing, passing arguments, Function prototypes, Recursion, Library functions, Static functions

Module 8 :Arrays:

Defining and processing, Passing arrays to a function, Multi dimensional arrays.

Defining and operations on strings.

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Module 9: Pointers –

Declarations, Passing pointers to a function, Operations on pointers, Pointer Arithmetic, Pointers and arrays, Arrays of pointers function pointers.

Module 10 : Structures

Defining and processing, Passing to a function, Unions, typedef, array of structure, and pointer to structure

Module 11 : File structures

Definitions, concept of record, file operations: Storing, creating, retrieving, updating File Handling: File operation: creation, copy, delete, update, text file, binary file.