Course Contents of C

Introduction

- *The C Language and its Advantages.*
- *The Structure of a C Program.*
- *Constants, variables & Keywords in C.*
- *Data Types.*
- *C instruction set.*
- *Writing C Programs.*
- *Examining and Running a C Application Program.*

The decision control structure

- *The 'if' Statement.*
- *Relational operators.*
- *The 'if-else' Statement.*
- *Nested 'if-else'.*
- *Logical operators.*
- *The 'else if' clause.*
- *The conditional operators.*

The loop control structure

- *The 'while' loop.*
- *The 'for' loop.*
- *The 'do-while' loop.*
- *The 'break' statement.*
- *The 'continue' statement.*

The case control structure

- *The switch-case statement.*
- *Switch versus if-else ladder.*

Functions & Pointers

- *The fundamentals of C Functions.*
- *Passing Values between Functions.*
- *Function Prototypes.*
- *Call by Value and Call by Reference.*
- *An Introduction to Pointers.*

- ➢ *Pointer Notation.*
- ➢ *Recursion.*

Storage Classes in C
- ➢ *Automatic Storage Class.*
- ➢ *Register Storage Class.*
- ➢ *Static Storage Class.*
- ➢ *External Storage Class.*
- ➢ *Which to Use When.*

The C Preprocessor
- ➢ *Macro Expansion.*
- ➢ *Macros with Arguments.*
- ➢ *Macros versus Functions.*
- ➢ *File Inclusion.*

Arrays, Strings & Structures
- ➢ *Declarations.*
- ➢ *Initializations.*
- ➢ *Usage.*

Operation on Files
- ➢ *File basics.*
- ➢ *File operations.*

Miscellaneous
- ➢ *Bitwise operators.*
- ➢ *Enum data types.*
- ➢ *Unions.*
- ➢ *Type casting.*
- ➢ *Some standard library functions & their usage.*

………………………………………………………………………………………………

*** (Study Materials+ Sample programs+Model questions) ***
Instructor-Mainak Banerjee
Contact-9239500975, 9038838975