

Core Course IV - C Programming

Unit I

C- Language fundamentals: Program Structure - Identifiers - Data types - Integer - float - double - char - constants - variables - operators and expressions - managing input and output operations.

Unit II

C control structures: Decision making with IF statement - IF.ELSE statement - nested IF.ELSE statement - FOR statement - DO.WHILE statement - WHILE.DO statement - GOTO statement - SWITCH statement.

Unit III

C Functions: Mathematical functions - sin - cos - tan -asin - acos - atan - sqrt - pow - log - String functions - stripy - stroat - stremp - strelen - strlwr -strupr and user - defined functions.

Unit IV

Arrays and structures: Arrays, definitions, declarations, entering values in - manipulating arrays - examining and passing an array. Structure: definitions - assigning structure variable - assigning initial values - using a structures - structure arrays - structures and functions.

Unit V

Pointers and File Operations: Understanding pointers - pointers and functions - File Operations: Understanding files - declaring a file - opening a file - closing a file - input and output functions - formatted input and output - working with structures adding data to a file - reading a printing a disk file.

Text Book

E. Balagurusamy, "Programming in C", Tata McGraw Hill, 2000.

References

R. C. Hutchison & S. B. Just, "Programming Using The C Language" McGraw Hill, 1988.