



G-TEC COMPUTER EDUCATION CENTRE

REGISTERED WITH COUNCIL FOR PRIVATE EDUCATION SINGAPORE

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C PROGRAMMING



COURSE OVERVIEW:

The intent of the course is to teach student the Structured programming concept of C Language, this helps in dividing the programs into function modules or code blocks. The course curriculum is designed as a combination of theory and practical. Course materials are covered with many hands on practical exercise with each theory topics.

COURSE CONTENT:

Introduction to C Programming: Compiling & running programs, storing data variables

Data type qualifiers: External variables, Static variables, Register variables, Arrays, constants, Enumerating constants

Operators: Arithmetical operations, Logical operations, Assignment operations, Comparison operations, Conditional operator, the size of operator, Operator precedence

Conditional statement: if, If –else, Switch s, for loop, While loop, Do- while loop, Break, Continue, go to.

Functions: Function declaration and definition, passing parameters , Recursive functions.

Working with bits: number system, OR, XOR , NOT ,Setting bit flags, Bitwise shift operators, Extracting bit values

Pointing to data: Getting values via pointers, Passing pointers to function, Arrays of pointers, Pointing to functions

Manipulating strings: String function, Working with strings

Building structures: Nested structures ,Array & pointers in structures, Array of structures

Union: Array of union

Standard input & output file streams: working with files

Header Function and Linking File:Function in custom headers, Multiple source files linking files, Static functions

Memory management