

C PROGRAMING LANGUAGE (1 WEEK)

C PROGRAMMING LANGUAGE

COURSE CONTENT

- Introduction to the course
- Programming and C language
- Number Systems
- General concepts and terms
- Data types
- Declaration and definition
- Constants
- Functions
- Scope and storage duration
- Operators
- **if** expression
- Function declarations
- Conditional operator
- Loop statements
- Type conversions
- **switch** expression
- Preprocessor and **#define #include** directives
- **goto** expression
- Random number generation and general applications
- Arrays
- **sizeof** operator
- Pointers
- **void** pointers
- Pointer applications
- Standard functions for cstring
- String literals
- Pointer arrays
- Pointer to pointers
- Dynamic memory management
- Storage class specifiers
- Modules and linkage concept
- Structs
- Recursive Functions
- Unions
- Bitwise operators
- Bit fields
- **enum** types
- Command line arguments
- Files and its applications
- Multidimensional arrays
- Function pointers
- Macros
- Other preprocessor directives