

## **Prerequisites**

### **A. Basic Understanding of C Programming Language:**

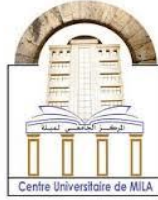
- Participants should have a solid understanding of basic C programming language concepts, including:
  - Variables and data types: familiarity with different data types such as integers, characters, and floating-point numbers, as well as variable declaration and initialization.
  - Control structures: understanding of control flow structures such as loops (for, while, do-while) and conditionals (if-else statements).
  - Functions: basic knowledge of function syntax, including function declaration, definition, parameters, and return types.

### **B. Proficiency in C Syntax:**

- Participants should be comfortable writing and understanding C code, including:
  - Syntax rules: knowledge of C syntax rules, including the use of semicolons, curly braces, and indentation.
  - Operators: understanding of arithmetic, relational, logical, and assignment operators commonly used in C programming.
  - Pointers: basic understanding of pointers and their usage, including pointer declaration, dereferencing, and pointer arithmetic.

### **C. Experience with Basic Programming Concepts:**

- Familiarity with fundamental programming concepts such as:
  - Variables and memory: understanding of variable storage in memory and basic memory management concepts.
  - Algorithms and problem-solving: ability to conceptualize and implement simple algorithms to solve programming problems.
  - Debugging and troubleshooting: basic skills in debugging code errors and resolving common programming issues.



#### **D. Text Editor or Integrated Development Environment (IDE)**

##### **Familiarity:**

- Participants should have experience using a text editor or an integrated development environment (IDE) for writing and compiling C code.
- Familiarity with common IDE features such as code editing, compiling, and debugging will be beneficial for hands-on exercises and assignments.

#### **E. Access to a C Compiler:**

- Participants should have access to a C compiler installed on their computer or have access to an online C compiler for practicing coding exercises and assignments.
- Recommended C compilers include GCC (GNU Compiler Collection), Clang, or Microsoft Visual C++ Compiler.

**Note:** While prior experience with C programming is recommended, motivated beginners with a strong willingness to learn and dedication to practicing coding exercises are also welcome to join the course.

By outlining these prerequisites, prospective participants can gauge whether they possess the necessary knowledge and skills to benefit from the course effectively.