Education within the reach of all

A Ministry of Calvary Chapel-Port-au-Prince

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## Syllabus

| Course Title | C# PROGRAMMING LANGUAGE |

### I.     Objective:

The objective of this course is to help students master the widely used programming

language called C# through practical projects, including desktop and web applications.

### II.    Prerequisites:

Java II - The "Database" course is recommended.

### III.   Materials and Books:

The course materials will be provided in PDF format and made available to students from

the first day of class.

### IV.    Course content

1. Variables and Constants:

   ● Arithmetic operators, Boolean/Logical operators, and other comparison

      operators.

   ● Increment/Decrement ++x; x++.

2. Decision Making and Loops:

   ● If-else statements, switch-case statements.

- For loop, while loop, do-while loop.

3. Arrays and Classes:

    - Introduction to arrays and their usage.

    - Working with classes and objects.

4. Files and Serialization:

    - Reading and writing data to files.

    - Serialization and deserialization of objects.

5. Basic Database Concepts:

    - Introduction to databases and basic concepts.

    - Utilizing basic database operations.

6. Utilizing APIs:

    - Working with Windows OS APIs and other web APIs.

7. Practical Projects:

    - Hands-on projects using Visual Studio 2017 and Microsoft SQL Server.

    - Developing desktop and web applications.