

PROGRAMMING
LANGUAGE

C#

OOOP
BASICS
INHERITANCE
ARRAYS
STRINGS
CONTROLS
INTERFACES
CONSTRUCTORS
OPERATORS
FUNCTIONS
MULTITHREADING

CERTIFICATE COURSE IN Programming in C#

This is 30 hrs Certificate programme

Learning Objectives:

- To develop C# programs.
- To learn the C# environment.
- To understand the features of C# programming language.

Learning Outcomes:

At the end of the course students will be able to

- Develop new applications on their own.
- Develop C# programs.

Module 1

- Introducing C#,
- Understanding .NET: The C# Environment
- Overview of C#
- Literals, Variables and Data Types
- Operators and Expressions
- Case Study

5

HOURS

Module 2

- Decision Making and Branching
- Decision Making and Looping
- Methods in C#
- Case Study

5

HOURS

Module 3

- Handling Arrays
- Manipulating Strings
- Structures and Enumeration
- Case Study

5

HOURS

Module 4

- Classes and Objects
- Inheritance and Polymorphism
- Interface: Multiple Inheritance
- Case Study

5

HOURS

Module 5

- Operator Overloading
- Managing Errors and Exceptions
- Multithreading in C#
- Case Study

5

HOURS

Module 6

- Window forms and Web based application development on .NET
- Case Study

5

HOURS

Text Book:

1. E. Balaguruswamy: Programming in C# : A Primer, 4th Edition, Tata McGraw Hill, 2016.

Ms Shilpa Shetty

HOD

Dept of Computer Science, Application and Animation