

#Learn_from_Home

C# Programming

Course Code: LFH/DOTNET/01

Duration: 15 hours

Course Syllabus

INTRODUCTION

This industry oriented course is developed by both the Software development division & Training division of **ipsr solutions limited**. IPSR is a **public limited IT company** with 20 years of expertise in [Software product development](#), [Training services](#), [Placement services](#) & [Digital Marketing services](#). During the past 2 decades, IPSR has trained candidates from **50+ countries** and helped **40000+ candidates** to build their IT career. Our IT services division is a pioneer in development of **Academic solution products**, incorporating cutting edge technologies like Artificial Intelligence, Data Analytics and Machine learning. Live industry experts from this IT division contribute a major role in delivering this course. Our placement division is having **1500+ placement tie-up companies** and we are conducting [recruitment on all days](#).

The Course curriculum is designed and developed by a team of expertise panel lead by following academicians

- ❑ **Dr. Mendus Jacob, M.Sc., M.Phil., Ph.D., MIOD**
 - ❑ M.D & C.E.O - IPSR & Valin Technologies, U.K.
 - ❑ Director - MCA, Marian College, Kuttikkanam (Autonomous)
 - ❑ Former Director of School of Applicable Mathematics, M.G. University.
 - ❑ Academician and Entrepreneur with 30+ years experience
- ❑ **Dr. Sunil Job K.A, M.Sc, M.Ed, M.Phil, Ph.D., RHCE**
 - ❑ Chief of Academic Solutions - IPSR
 - ❑ Former college Principal and a Specialist in Data Analytics & Machine Learning
 - ❑ Blogger and a Resource person for National conferences
 - ❑ Academician with 25+ years experience



What you'll learn

✔ .Net Framework Architecture, C# Language Basics, Functions, Arrays, Collections, Generics , OOPS

Description

This is a foundation course on C#

Course Outcome (CO)

While successfully completing this course, the learner will be able to:

→ Do basic programming in C#

What does this course give you?

☐ Skills to use C# in desktop and web application development



Course content

Pre-requisite: Nil

MS.NET Framework Introduction

- The .NET Framework - an Overview
- Framework Components
- MS.NET Base Class Library
- MS.NET Namespaces
- The Common Language Runtime (CLR)
- MS.NET Memory Management / Garbage Collection
- Common Type System (CTS)
- Common Language Specification (CLS)

VS.NET and Entry Point Method –Main

- Introduction to Project and Solution in Studio
- Entry point method - Main.
- Compiling and Building Projects

Language Syntax

Basic C# Syntax

Comments

Data Types, Variables

Value type and Reference Type

Operators

Flow Control and conditional statement



Arrays

Initializing Arrays

Accessing Array Elements

Different Type of Arrays

Array Functions

Methods

Defining Methods in C#

Calling Methods in C#

Recursive Method Call .

Passing Parameters to a Method

Passing Parameters by Value

Strings

Creating a String Object

Properties of the String Class

Methods of the String Class

Collections

ArrayList

SortedList

Hash Tables

Stack

Queue



Generic Collections

List<T>

Dictionary<TKey,TValue>

OOPs-Concept

OOP's Overview.

Classes and Objects

Constructor –Types of Constructor

Types of Inheritance

Polymorphism

- Overloading and Overriding

Encapsulation

Overview of Abstract Class & Interface

Interface and abstract class with examples

Contact Us

IPSR SOLUTIONS LTD.

Merchant's Association Building

M.L. Road, Kottayam - 686001

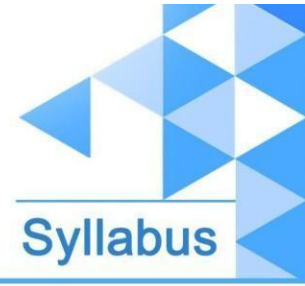
Kerala, India, Pin-686001

Phone: +91-481 2561410, 2561420, 2301085

Mobile: +91 9447294635, +91 9447169776



 ipsr solutions ltd
redefining excellence



Email: training@ipsrsolutions.com

Website: <http://www.ipsr.org/>

Learn_from_Home Portal: <https://lms.ipsr.org/>

We have branches at Kochi, Thiruvananthapuram, Calicut and Bengaluru.