

Masters in

SOFTWARE ADMINISTRATION





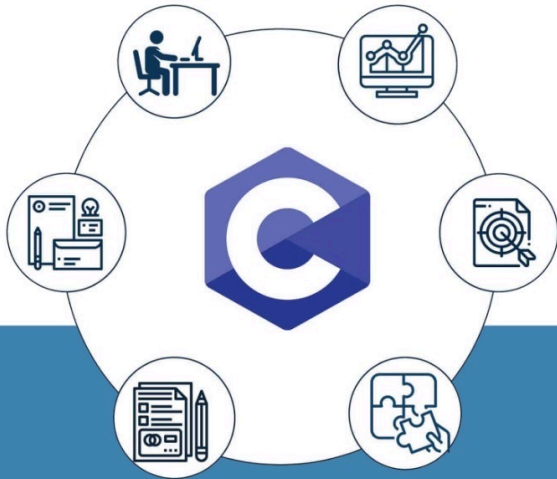
TOPICS COVERED

C, C++

JAVA

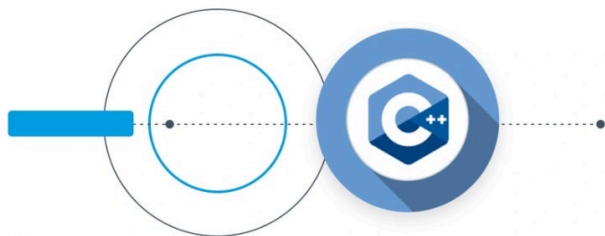
PYTHON

.NET



C

- C Intro
- C Syntax
- C Output
- C Comments
- C Variables
- C Data Types
- C Constants
- C Operators
- C Booleans
- C If...Else
- C Switch
- C While Loop
- C For Loop
- C Break/Continue
- C Arrays
- C Strings
- C User Input
- C Memory Address
- C Pointers
- C Functions
- C Function Parameters
- C Scope
- C Function Declaration
- C Recursion
- C Math Functions
- C Files
- C Create Files
- C Write To Files
- C Read Files
- C Structures
- C Enums
- C Memory Management



C++

- C++ Intro
- C++ Syntax
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- C++ Arrays
- C++ Structures
- C++ Enums
- C++ References
- C++ Pointers
- C++ Functions
- C++ Function Parameters
- C++ Function Overloading
- C++ Scope
- C++ Recursion
- C++ OOP
- C++ Classes/Objects
- C++ Class Methods
- C++ Constructors
- C++ Access Specifiers
- C++ Encapsulation
- C++ Inheritance
- C++ Polymorphism
- C++ Files
- C++ Exceptions
- C++ Date
- C++ Data Structures
- C++ Data Structures & STL
- C++ Vectors
- C++ List
- C++ Stacks
- C++ Queues
- C++ Deque
- C++ Sets
- C++ Maps
- C++ Iterators
- C++ Algorithms

Java

- Java Intro
- Java Syntax
- Java Output
- Java Comments
- Java Variables
- Java Data Types
- Java Type Casting
- Java Operators
- Java Strings
- Java Math
- Java Booleans
- Java If...Else
- Java Switch
- Java While Loop
- Java For Loop
- Java Break/Continue
- Java Arrays
- Java Methods
- Java Method Parameters
- Java Method Overloading
- Java Scope
- Java Recursion
- Java OOP
- Java Classes/Objects
- Java Class Attributes
- Java Class Methods
- Java Constructors
- Java Modifiers
- Java Encapsulation
- Java Packages / API
- Java Inheritance
- Java Polymorphism
- Java Inner Classes
- Java Abstraction
- Java Interface
- Java Enums
- Java User Input
- Java Date
- Java ArrayList
- Java LinkedList
- Java List Sorting
- Java HashMap
- Java HashSet
- Java Iterator
- Java Wrapper Classes
- Java Exceptions
- Java RegEx
- Java Threads
- Java Lambda
- Java Advanced Sorting
- Java File Handling
- Java Files
- Java Create/Write Files
- Java Read Files
- Java Delete Files





Python

- Python Intro
- Python Comments
- Python Variables
- Python Data Types
- Python RegEx
- Python Numbers
- Python Casting
- Python Strings
- Python Booleans
- Python Operators
- Python Lists
- Python Tuples
- Python Sets
- Python Dictionaries
- Python If...Else
- Python While Loops
- Python For Loops
- Python Functions
- Python Lambda
- Python Arrays
- Python Classes/Objects
- Python Inheritance
- Python Iterators
- Python Polymorphism
- Python Scope
- Python Modules
- Python Dates
- Python Math
- Python JSON
- Python RegEx
- Python PIP
- Python Try...Except
- Python User Input
- Python String Formatting
- Python File Handling
- Python Read Files
- Python Write/Create Files

.Net

Getting Started with .NET

- Getting Started - A C# Console Application
- Saving your work
- Your first line of C# code
- How to Run your C# Programmes
- Your First C# Windows Form
- Adding Controls to a Form
- Properties of a Control
- Adding Code to a Button
- C# Message Boxes
- More about Message Boxes

.NET Variables

- String Variables in C#. NET
- Assigning Text to a String Variable
- Concatenation in C#
- C# Comments
- Numbers Variables
- Double and Float Variables
- Double Variables
- Addition in C# .NET
- Adding up with float Variables
- Subtraction
- Mixing Subtraction and Addition
- Operator Precedence
- Multiplication and Division
- Getting Numbers from Text Boxes
- A C# .NET Calculator - Design
- C# .NET Calculator - The Code
- The Plus Button
- The Equals Button

Conditional Logic

- IF Statements
- Else ... If
- Switch Statements
- C# Operators

.NET: Loops

- C# and For Loops
- Loop Start and End Values
- A Times Table Programme
- Do loops and While Loops
- Checking for Blank TextBoxes in C#

.NET: Add Menus to your Forms

- Add Menus to Windows Forms in C#
- Sub Menus
- Menu Shortcuts
- Code for your Quit Menu
- The Edit Menu
- Copy and Paste in C# .NET
- The View Menu
- Adding Images in C# .NET
- Open File Dialogue Box in C#
- Open a Text File
- The Save As Dialogue Box
- CheckBoxes and Radio Buttons

.NET: Debugging your Applications

- Errors at Design Time
- Run Time Errors
- Logic Errors
- Breakpoints
- The Locals Window
- Try ..Catch Statements in C# .NET

.NET Methods

- Understanding C# .NET Methods
- Passing values to your C# Methods
- Getting values back from C# Methods

Understanding Arrays

- Arrays in C# .NET
- Arrays and Loops
- Arrays at RunTime
- Multi Dimensional Arrays in C# .NET
- Arrays and Text

- C# Collections – Lists
- C# Collections – HashTables
- C# Collections – Enumerations

.NET String Manipulation

- C# String Variables
- Trim Unwanted Characters
- The Contains Method
- The IndexOf Method
- The Insert Method
- PadLeft and PadRight
- Remove and Replace in C# .NET
- C# Substring
- Split and Join in C#
- A C# .NET Hangman Game

.NET: Events

- The Click Event
- The MouseDown Event
- KeyDown
- The Leave Event
- C# ListBox & ComboBox Events
- C# Custom Web Browser
- The TreeView Control
- Adding Nodes to a TreeView
- Add a WebBrowser to a C# Windows Form

Classes and Objects

- Classes and Objects in C# .NET
- A First Class
- Create Objects from your C# Classes
- Passing values to your Classes
- Adding Properties to your C# Classes
- Using Class Properties
- Class Constructors in C# .NET
- Inheritance in C# .NET
- C# Method Overloading
- C# Static Methods

.NET: Manipulating Files

- How to open a Text File
- Read a file line by line in C# .NET
- Write to a Text File
- How to Copy, Move and Delete a File

Databases

- SQL Server Express and C# .NET
- Create a SQL Server Express Database
- Create a SQL Server Database Table
- Create a Database Project in C#
- Create a Database Class
- Display Data from the Database
- Database Navigation Buttons
- Add, Update, Delete a Record
- Finding Records in a DataSet

Two Tables with a SQL Server

Databases

- Create a Sql Server Database in C#
- Create the first table
- Create a second table
- Adding data to the two tables
- SQL queries, Joins, Stored Procedures
- SQL Paramaters
- Creating a User Form with a DataGrid
- Coding for a simple Stored Procedure
- Search a database using a Stored Procedure
- Update a database with a Stored Procedure
- Write code for the update




Multiple Forms

1. Creating Multiple Forms
2. Modal Forms in C# .NET
3. Getting at the values on other Forms

.NET Dates and Times

- 1. Dates and Times in C# .NET



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