



General: Live Teaching -

Live **Teaching** sessions from Monday – Saturday from 08:45 AM to 05:45 PM.

Graded Assessments

• For the Milestone graded assessment (quiz and project), the submission timeline will be

• Graded Quiz-45 minutes

• Graded Project-1 hour 20 minutes

Courses	Day no	Date	Modules	SubTopics Introduction & Basic Programming Concepts	
				Installation of Visual Studio 2019	
				Introduction to .NET framework	
				.NET framework architecture	
			Getting started with .NET platform	Common type system	
				Common language specification Common language runtime	
				Base class library	
				Introduction to Classes	
	Day 1	27-01-2025		Reading and Writing in the console	
	23,2		}	Assembly	
			Types in C#	Private Shared	
				Types	
				Value type and Reference type	
				Boxing and Unboxing	
				Strings String Builder	
				Difference between String and StringBuilder	
				Nullable types	
				Core C# Programming	
				Array Single array	
Introduction to .Net & C#			Arrays in C#	Multi-dimension	
				Jagged array	
	Day 2	28-01-2025		Loops and Statement	
				IF statement	
			Looping Construct	For loop Foreach loop	
				Switch statement	
				While loop	
	L			Do-while loop	
				Getting Started with properties and functions Access modifiers	
				Access modifiers Private	
			Access modifiers in C#	Public	
			/ CCCS Modificis in Cir	Protected	
				Internal	
	Day 3	29-01-2025		Protected internal Methods	
	,-			Void method	
				With parameter	
			Methods in C#	Return type method	
			}	Static method	
				Instance method Namespaces	
		1			
			Getting started with Inheritance for code reusability		
				Unit testing Getting started with Inheritance for code reusability	
				Getting started with Inheritance for code reusability Object Oriented Concept	
				Getting started with Inheritance for code reusability Object Oriented Concept Inheritance	
			Inheritance in C#.NET	Getting started with Inheritance for code reusability Object Oriented Concept	
			Inheritance in C#.NET	Getting started with Inheritance for code reusability Object Oriented Concept Inheritance Single Multilevel Multiple (using Interface)	
			Inheritance in C#.NET	Getting started with Inheritance for code reusability Object Oriented Concept Inheritance Single Multilevel Multilevel Multiple (using Interface) Hierarchical	
			Inheritance in C#.NET	Getting started with Inheritance for code reusability Object Oriented Concept Inheritance Single Multilevel Multiple (using Interface) Hierarchical Hybrid	
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				Getting started with Inheritance for code reusability Object O'reinted Concept Inheritance Single Multilevel Multilevel Multiple (using interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism	
			Inheritance in C#.NET Polymorphism in C#.NET	Getting started with Inheritance for code reusability Object Oriented Concept Inheritance Single Multilevel Multilevel Multilevel Multiple (using Interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism Method override Method override Method overload	
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			Exception Handling in C#	Introduction to Exception Handling Types of Exceptions in C#, The try, catch, finally Blocks Common Exception Classes
		ſ	exception nationing in C#	Creating Custom Exceptions Exception Filters (C# 6.0 and Later) Exception Handling Best Practices
			Latest C# 7.0 features	Extension Methods Tuples and Deconstruction, Pattern Matching, Local Functions, Out Variables, Ref Locals and Returns, Discards (_) & Expression-bodded Members
	Day - 6	01-02-2025	Prominent feartures till C# 12	Nullable Reference Types, Async Streams, Ranges and Indices, Switch Expressions, Default Interface Methods, Pattern Matching Enhancements, Using Declarations & Readonly Members, Required Members, Primary Constructors, Collection Expressions, Lambda Expression Improvements, Improved Interpolated "Using Static Directives for Accessing Static MembersStrings, Generic Math Support etc.
			Searching and Sorting Data Structure	Importance of searching in data structures Types of searching algorithms (Linear vs Binary)
				Types of sorting algorithms (Comparison-based vs Non-comparison-based)
				Bubble Sort, Selection Sort, Insertion Sort Efficiency comparison among Bubble, Selection, and Insertion Sort Real-world scenarios for each sorting algorithm
			Indexers and Attributes in C#	Indexer Difference between index and properties
			mackets and reclibates in en	Attributes Delegates & Reflection
			Delegates in C#.NET	Delegates Single cast
				Multi cast
				Anonymous method Lambda expression
				Func Action
	Day-7	03-02-2025		Predicate Events
	Day-7	03-02-2023		INtroduction to Reflection and its practical use
			Standard C# Features	Generics Generic class
				Generic field
Advsnced C#				Generic method Advantage of generics
				Threading Ref and Out keyword
			Unit Tes	Async & Await ting & Test-Driven Development (using Xunit, Moq, Fluent Assertions)
				What is unit testing? Benefits of unit testing
			Introduction to Unit Testing	Basic concepts and terminology
	Day 8			Testing Frameworks
			Introduction to Testing Frameworks	Introduction to popular testing frameworks (NUnit, MSTest, XTest) Setting up a testing framework in a project
				Understanding test projects and test classes
			Writing Test Cases	Anatomy of a unit test Creating test methods
			-	Organizing test classes and test suites
			Assertions and Test Data	Using assertions to validate test results Common assertion methods (e.g., Assert.AreEqual, Assert.IsTrue)
				Test data setup and teardown
			Testing Techniques , Execution & Reporting	Test-driven development (TDD), Testing different scenarios (positive, negative, edge cases)
		04-02-2025		Running tests using the testing framework, analyzing and understanding test report
			Introduction to .NET Core	.NET Core Fundamentals DOT NET CORE
				What is .NET Core Benefits of .NET core
				What is new in .NET Core
				.NET Core vs .NET Framework First .NET Core Application.
				Building .NET Core Applications Understanding middleware in ASP.NET Core
			Middleware and Static Files	Configuring and using middleware components
				Serving static files (HTML, CSS, JavaScript) Security considerations with static files
				Overview of Razor Pages architecture
			Introduction to Razor Pages	Advantages of Razor Pages over traditional MVC Creating and configuring Razor Pages in a project
			Razor Syntax and Page Model	Folder structure and naming conventions Razor syntax basics and directives
				Mixing HTML and server-side code Understanding the PageModel class
				Property binding and handling requests
	Day 9	05-02-2025	.NET Security & Reliability	.NET Security & Reliability Understanding security in .NET applications
				Common security practices (Authentication, Authorization, Encryption)
				Secure coding (Best practices)
				Using .NET libraries for encryption, secure communication, and secure storage
				Building Reliable Applications Designing for reliability
				Exception handling strategies Error Handling & Logging
Advanced C# & Introduction to .Net				Implementing error handling best practices Logging errors and monitoring application health
				SOLID Principles & Design Patterns
		06-02-2025	SOLID Principles	Introduction to SOLID Principles Overview of SOLID principles (SRP, OCP, LSP, ISP, DIP)
				Practical Application of SOLID Refactoring code to adhere to SOLID principles
	Day 10		Design Patterns	Introduction to Design Patterns
				Understanding the importance of Design Patterns in software design
				Overview of common design patterns (Creational, Structural, Behavioral)
				Introduction, Basic Concepts, and DML Commands Installation of SQL Server Management Studio
			Introduction to Databases	Introduction to basic database concepts.

				Advantage of DBMS
				Introduction to RDBMS
				Creating Tables Relationship between tables.
			Keys, Operators & DML Commands	Primary keys, Foreign keys, Unique keys
				SQL operators (Arithmetic, Comparison, Logical)
	Day 11	07-02-2025		DML Commands
	Duy 11	07 02 2023		CRUD operations DDL, DCL, and TCL Commands
				SQL commands
SQI & microsoft SQI server				Constraints
				Primary key Foreign key
			SQL Fundamentals	Types of contraints - Not null, Check, Unique.
				DDL Commands
				DCL & TCL Commands
				Grant & Revoke, Commit & Rollback Advanced Queries, Functions, and Joins
				Functions
				Built-in Functions
			Function in SQL Server	Scalar functions (e.g., LEN, ROUND, GETDATE)
				Aggregate functions (e.g., SUM, AVG, COUNT)
				User-defined Functions Aggregate functions
				Joins
				Inner join
				Left join
				Right join Self-join
	Day 12	08-02-2025	Working with Queries	Full outer join
				Cross join
				Set operators
				Union
				Intersect Minus
				Advanced Queries, Functions, and Joins
				Normalizations
			Normalizations	First normal form
			ormanzanolis	Second normal form Third normal form
				Benefits of normalization and when to apply it
			Getti	ng started with HTML /CSS /JavaScript
				Basic Structure of an HTML Page
				Various Tags and Attributes Inline and Block Elements
				Forms
				Semantic elements
				HTML 5 Features Paper based Layout
				Hero unit
				Audio Video Players
	Day 13	10-02-2025	HTML and CSS	Semantic Markup Geo Location, A11Y (Accessibility)
				Intro to CSS
				CSS Properties and their syntaxes
				Various Selectors in CSS and their preference orders
				Inline , Internal and External Styling Box Model
				CSS 3
HTML CSS JS				Advance Unites like rem, em and vh vw
				New elements added like Round Corners Working with flex box
				Working with Bootstrap
				Cards, Tables, and Lists
			Bootstrap	Develop a static webpage, Forms and Form Validations
			Bootstrap Basics of JavaScript	Develop a static webpage, Forms and Form Validations Nava and Navbar, Pagination and Progress Navigation and Pagination
				Develop a static webpage,Forms and Form Validations Navs and Navbar/Pagination and Progress Navigation and Pagination Basics of JavaScript - Data type, variables,
				Develop a static webpage, Forms and Form Validations Nava and Navbar-pagination and Progress Navigation and Pagination Basics of JavaScript - Data type, variables, Type Conversion, Basic Operators,
	Day 14	11-02-2025		Develop a static webpage, Forms and Form Validations Nava and Navbar, Pagination and Progress Navigation and Pagination and Pagination Basics of JavaScript - Data type, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings
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	Day 14	11-02-2025	Basics of JavaScript	Develop a static webpage,Forms and Form Validations Nava and Navba-Pagination and Progress Navigation and Pagination Basics of JavaScriot - Data type, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, Sefe Features, Promises and Async Programming, Closures and Scoping, Functional Programming, Error Handlingdient side scripting. JSON, JSON - Objects, arrays etc, JSON-Ajax Advanced DOM Manipulation, jQuery Plugins, Event Delegation, Ajax and Deferred Objects, Optimization and Performance SPA & Working with NPM Var-holsting Functional Score
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Type Script	Day 14	11-02-2025	Basics of JavaScript Advanced Java Script	Develop a static webpage,Forms and Form Validations Nava and Navba-Pagination and Progress Navigation and Pagination Basics of JavaScriot - Data type, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, Sefe Features, Promises and Async Programming, Closures and Scoping, Functional Programming, Error Handlingdient side scripting. JSON, JSON - Objects, arrays etc, JSON-Ajax Advanced DOM Manipulation, jQuery Plugins, Event Delegation, Ajax and Deferred Objects, Optimization and Performance SPA & Working with NPM Var-holsting Functional Score
Type Script			Basics of JavaScript	Develop a static webpage,Forms and Form Validations Nava and Navba-Pagination and Progress Navigation and Pagination Basics of JavaScriot - Data type, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, ES6+ Features, Promises and Async Programming, Closures and Scoping, Functional Programming, Error Handlingclient side scripting, JSON, JSON - Objects, arrays etc., JSON-Ajax Advanced DOM Manipulation, jQuery Plugins, Event Delegation, Ajax and Deferred Objects, Optimization and Performance SPA & Working with NPM Var-hoisting Functional Score Classes & Methods & Constructor Maps Iterators Interfaces
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		14-02-2025		Use cases and scenarios where Angular or React is preferred
				Overview of component lifecycle in React
			Component Lifecycle and Basic Building Blocks of SPA Framework: Components, States, and Props	Understanding the role of components in SPA development
				Basic building blocks such as components, modules, services, and routing in Angular and React applications
React	Day 17 & 18			Creating functional and class components
Neact U	Day 17 & 16			Managing state within components
				Passing data between components using props
			Events and Passing Props	Handling events in React (e.g., onClick, onChange)
				Passing functions as props to manage state in child components
				Practical exercises: Building interactive components with event handling
			React Router and More	Introduction to React Router for client-side navigation
				Setting up basic routing in a React application
				Practical exercises: Creating a multi-page React application
				Advanced React Concepts
		17-02-2025	Refactoring with Hooks and Context API	Introduction to React Hooks (useState, useEffect, useContext)
Advanced React Day				Refactoring class components to functional components with hooks
				Using Context API for global state management
				Practical exercises: Refactor an existing application using hooks
	Day 19 & 20	18-02-2025	Using React Hooks	Deep dive into advanced hooks (useReducer, useMemo, useCallback)
				Custom hooks: When and how to create them
				Practical exercises: Implement custom hooks in a React application
			Building Server-side Rendered React Apps	Introduction to server-side rendering (SSR) with React
				Setting up SSR with frameworks like Next.js
				Benefits of SSR for performance and SEO
				Practical exercises: Create a basic server-side rendered React application
			li li	ntroduction to REST & Microservice Architecture using .NET Core
		19-02-2025	Introduction to REST and its Architecture	Overview of RESTful services and principles
				RESTful API design best practices in ASP.NET Core
	Day 21			Understanding statelessness and resource-based routing
Introduction to Microservices			Introduction to Microservices Architecture	Introduction to microservices architecture
				Comparing microservices with monolithic architecture
				Benefits and challenges of microservices
				MileStone 1
	Day 22	20-02-2025		C# (Arrays & Strings)