



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

o Gradeo	l Project- 1 hour 2		
Courses	Day no	Date	

Courses	Day no	Date	Modules	SubTonics	
Courses	Day no	Date	Modules	SubTopics Introduction & Basic Programming Concepts	
				Installation of Visual Studio 2019	
				Introduction to .NET framework	
			Getting started with .NET platform	.NET framework architecture	
		y 1 27-01-2025	Getting started with NET platform	Common type system Common language specification	
				Common language runtime	
				Base class library	
				Introduction to Classes	
	Day 1		Types in C#	Reading and Writing in the console	
				Assembly 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	
to the desired to Not 0 City			Arrays in C#	Single array	
Introduction to .Net & C#			-	Multi-dimension	
				Jagged array Loops and Statement	
	Day 2	28-01-2025		IF statement	
	1			For loop	
	1		Looping Construct	Foreach loop	
	1			Switch statement	
	1			While loop Do-while loop	
	-			Getting Started with properties and functions	
	1			Access modifiers	
	1			Private	
			Access modifiers in C#	Public	
			<u> </u>	Protected	
			<u>-</u>	Internal Protected internal	
	Day 3	29-01-2025		Methods	
	.,.			Void method	
				With parameter	
			Methods in C#	Return type method	
				Static method	
			_	Instance method	
			F	Namespaces Unit testing	
		_	Getting started with Inheritance for code reusability		
				Object Oriented Concept	
				Inheritance	
			Inhanitanan in CH NET	Single	
			Inheritance in C#.NET	Multilevel Multiple (using Interface)	
			-	Multiple (using Interface) Hierarchical	
				Hybrid	
				OOPs principles ie Polymorphism in Action	
				Polymorphism	
				Method override	
		1	Polymorphism in C#.NET	Method overload	
OOPS using C#	Day 4	30-01-2025		Encapsulation Abstraction	
	., .			Properties	
	1			Static	
	1		Object types in C#.NET	Static class	
	1			Static method	
	1			Static constructor Structs	
	1			Structs Interface	
				Abstract	
	1		User define types in C#.NET	Enumeration	
	1		Oser define types in C#.NET	Difference between Interface and Abstract	
				Problem with multiple class inheritance	
	1			Solution for multiple class inheritance using interface.	
	 			Exception handling File Handling in C#.NET	
	1			File I/O	
	1		 	Create	
	1		File Handling in C#.NET	Write	
	1		File Halluling III C#.NET	Append	
				Delete	
				Copy	
				Collections	
Park Handle		24.07		Collections Non generic	
Data Handling using C#	Day 5	31-01-2025		Collections	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list	
Data Handling using C#	Day 5	31-01-2025	Collections in C#.NET: Generic and Non	Collections Non generic Array list Hash table Sorted list Stack	
Data Handling using C#	Day 5	31-01-2025	Collections in C#.NET: Generic and Non Generic	Collections Non generic Array list Hash table Sorted list Stack Queue	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list Stack Queue Generic	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list Stack Queue Generic List	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list Stack Queue Generic List Dictionary	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list Stack Queue Generic List	
Data Handling using C#	Day 5	31-01-2025		Collections Non generic Array list Hash table Sorted list Stack Queue Generic List Dictionary Sorted list	

			Exception Handling in C#	Introduction to Exception Handling Types of Exceptions in C#, The try, catch, finally Blocks Common Exception Classes
			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.
				Importance of searching in data structures Types of searching algorithms (Linear vs Binary)
			Searching and Sorting Data Structure Indexers and Attributes in C#	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
				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
				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)
	Day 8	04-02-2025		Running tests using the testing framework, analyzing and understanding test report
	,-			.NET Core Fundamentals DOT NET CORE
				What is .NET Core Benefits of .NET core
			Introduction to .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
				Folder structure and naming conventions Razor syntax basics and directives
			Razor Syntax and Page Model	Mixing HTML and server-side code Understanding the PageModel class
				Property binding and handling requests
				.NET Security & Reliability Understanding security in .NET applications
		05-02-2025		Common security practices (Authentication, Authorization, Encryption)
			.NET Security & Reliability	Secure coding (Best practices)
	Day 9			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
			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	06-02-2025	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
Davi 11				SQL operators (Arithmetic, Comparison, Logical)
	Day 11	07-02-2025		DML Commands
	Day 11	07-02-2023		CRUD operations DDL, DCL, and TCL Commands
				SQL commands
				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
SQI & microsoft SQI server				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 First normal form
			Normalizations	Second normal form
				Third normal form
				Benefits of normalization and when to apply it
		1	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
				Semantic Markup
	Day 13	10-02-2025	HTML and CSS	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
HTML CSS JS				CSS 3 Advance Unites like rem, em and vh vw
				New elements added like Round Corners
				New elements added like Round Corners Working with flex box
				New elements added like Round Corners Working with flex box Working with Bootstrap
				New elements added like Round Corners Working with flex box Working with Bootstrap Cards, Tables, and Lists Develop a static webage, Forms and Form Validations
			Bootstrap	New elements added like Round Corners Working with flex box Working with Bootstrap Cards, Tables, and Lists Develop a static webpage, Forms and Form Validations Navs and Navbar, Pagination and Progress
			Bootstrap Basics of JavaScript	New elements added like Round Corners Working with flex box Working with Bootstrap Cards, Tables, and Lists Develop a static webpage Forms and Form Validations Navs and Navbar Pagination and Progress Navigation and Pagination
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	Day 14	11-02-2025		New elements added like Round Corners Working with flex box Working with Box box Working with Box box Understand States and tists Develop a static webpage, Forms and Form Validations Navas and Navdar, Pagination and Progress Roungation and Pagination Basic of JavaScript - Data type, variables, Type Conversions, Basic Operations, Basic Operations, Branching and tooping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, ESSF Features, Promises and Async Programming, Closures and Scoping,
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These Service			Basics of JavaScript Advanced Java Script	New elements added like Round Corners Working with flex box Working with Bootstrap Cards, Tables, and Lists Develop a static webpage, Forms and Form Validations Nava and Navbar, 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, 556+ 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-holsting Functional Score Classes & Methods & Constructor
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		14-02-2025		Use cases and scenarios where Angular or React is preferred	
			Component Lifecycle and Basic Building Blocks of SPA Framework: Components, States, and Props	Overview of component lifecycle in React	
				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	
React	Day 17 & 16			Managing state within components	
				Passing data between components using props	
				Handling events in React (e.g., onClick, onChange)	
		Events and Passing Props	Passing functions as props to manage state in child components		
		15-02-2025		Practical exercises: Building interactive components with event handling	
				Introduction to React Router for client-side navigation	
			React Router and More	Setting up basic routing in a React application	
			React Router and More	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)	
		17-02-2025		Refactoring class components to functional components with hooks	
			Using Context API for global state management		
	Advanced React Day 19 & 20	Į.		Practical exercises: Refactor an existing application using hooks	
Advanced React		0	Using React Hooks	Deep dive into advanced hooks (useReducer, useMemo, useCallback)	
				Custom hooks: When and how to create them	
	18-02-2025		Practical exercises: Implement custom hooks in a React application		
		18-02-2025	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		
			Introduction to REST & Microservice Architecture using .NET Core		
				Overview of RESTful services and principles	
		ay 21 19-02-2025	Introduction to REST and its Architecture	RESTful API design best practices in ASP.NET Core	
	Day 21		and its Architecture	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)	