



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 mi 	nutes
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Courses			Ma-4 *	C.L.
	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
Day 1		27-01-2025		Common language specification Common language runtime
				Base class library
				Introduction to Classes
	Day 1		Types in C#	Reading and Writing in the console
	Day 1			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	
Introduction to .Net & C#			Arrays in C#	Single array Multi-dimension
introduction to .Net & C#			<u> </u>	Jagged array
				Loops and Statement
	Day 2	28-01-2025		IF statement
				For loop
			Looping Construct	Foreach loop
				Switch statement While loop
				Do-while loop
				Getting Started with properties and functions
				Access modifiers
				Private
			Access modifiers in C#	Public Protected
				Internal
				Protected internal
	Day 3	29-01-2025		Methods
				Void method
			<u> </u>	With parameter Return type method
			Methods in C#	Static method
				Instance method
				Namespaces
				Unit testing
				Getting started with Inheritance for code reusability Object Oriented Concept
				Inheritance
				Single
			Inheritance in C#.NET	Single Multilevel
			Inheritance in C#.NET	Single Multilevel Multiple (using Interface)
			Inheritance in C#.NET	Single Multilevel Multiple (using Interface) Hierarchical
			Inheritance in C#.NET	Single Multilevel Multiple (using Interface) Hierarchical Hybrid
			Inheritance in C#.NET	Single Multilizerl Multiple (using interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism
				Single Multiple (Using Interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism Method override
			Inheritance in C#.NET Polymorphism in C#.NET	Single Multilevel Multiples (using Interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism Method override Method overload
OOPS using C#	Day 4	30.01.2025		Single Multible (using Interface) Hierarchical Hybrid OOPs principles ie Polymorphism Action Polymorphism Method override Method overload Encapsulation
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			Polymorphism in C#.NET Object types in C#.NET User define types in C#.NET File Handling in C#.NET	Single Multilizer Multiple (using interface) Hierarchical Hybrid OOPs principles ie Polymorphism in Action Polymorphism Method override Method overload Encapsulation Abstraction Properties Static Static class Static class Static constructor Static constructor Structs Interface Abstract Enumeration Difference between Interface and Abstract Problem with multiple class inheritance Solution for multiple disas inheritance using interface. Exception handling File Handling in CRNET File I/O Create Write Append Delete Copy Collections Non generic Array list Hash table Sorted list Stack Queue Generic List Dictionary Sorted list Dictionary Sorted list List Dictionary Sorted list

			Evention Handling in CH	Introduction to Exception Handling Types of Exceptions in C#, The try, catch, finally Blocks Common Exception Classes
		01-02-2025	Exception Handling 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		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
				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
			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
			KEJS, OPERIOD & SILL COMMINIO	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 Fundamentals	SQL commands
				Constraints
				Primary key Foreign key
				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
			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
	Day 14	11-02-2025		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,
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	Day 14	11-02-2025	Basics of JavaScript	Develop a static webpage,Forms and Form Validations Nava and Navbar-Pagination and Progress Navigation and Pagination Basics of InvoScript - 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 Asyne 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
	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
	Day 14	11-02-2025	Basics of JavaScript	Develop a static webpage, Forms and Form Validations Nava and Navabra-Pagination and Progress Navigation and Pagination Basics of JunsZort Data true, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, ESS+ 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
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
Type Script			Basics of JavaScript Advanced Java Script	Develop a static webpage,Forms and Form Validations Nava and Navbar-Pagination and Progress Navigation and Pagination Basics of JawaScriot - Data type, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, Sc&e Features, Promises and Async Programming, Closures and Scoping, Functional Programming, Error Handlingclient side scripting, ISON, ISON - 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 Rerators Interfaces Declaritions and Annotations
Type Script			Basics of JavaScript Advanced Java Script	Develop a static webpage,Forms and Form Validations Nava and Navbar-Applination and Progress Navigation and Pagination Basics of JavaScrib. Data true, variables, Type Conversions, Basic Operators, Branching and Looping Statements, Functions, Arrays and Strings Date and Time Objects, Closures, DOM Objects, ESS+ Features, Promises and Asyne Programming, Closures and Scoping, Functional Programming, Ernor Isradilingclient 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 Declaritions and Annotations Anytype
Type Script			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, ScFe 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-hoisting Functional Score Classes & Methods & Constructor Maps Iterators Interfaces Declartions and Annotations Anytype Enumeration
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React Day 17 & 18			onderstanding neact as a realismont.	Use cases and scenarios where Angular or React is preferred	
		14-02-2025		Overview of component lifecycle in React	
			Component Lifecycle and Basic Building Blocks of SPA Framework:	Understanding the role of components in SPA development	
			BIOCKS OF SPA Framework:	Basic building blocks such as components, modules, services, and routing in Angular and React applications	
			Creating functional and class components		
	Day 17 & 16	10	Components, States, and Props	Managing state within components	
				Passing data between components using props	
		15-02-2025	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	
				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)	
				Refactoring class components to functional components with hooks	
				Using Context API for global state management	
				Practical exercises: Refactor an existing application using hooks	
Advanced React	Day 19 & 20		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	
		16-02-2025	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	
		19-02-2025	Introduction to REST & Microservice Architecture using .NET Core		
				Overview of RESTful services and principles	
			Introduction to REST and its Architecture	RESTful API design best practices in ASP.NET Core	
Introduction to Microservices	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	
	Day 22	20-02-2025		MileStone 1	
Da	Day 22	20-02-2025		C# (Arrays & Strings)	