COURSE BROCHURE · 2026

ENTERPRISE-READY TECHNOLOGY PROGRAMS

Premium, project-led technology programs built for modern teams.

Present a curated catalog of ICLeaF's flagship programs across **data, development, cloud and DevOps**. Designed to move your team from foundational skills to role-ready expertise through guided learning paths and measurable outcomes.

STRUCTURED CURRICULUM

15+ programs with clearly defined learning journeys and outcomes.

HANDS-ON PROJECTS

Real-world case studies, capstone projects and implementations.

FLEXIBLE DELIVERY

Self-paced learning with dedicated SME support and live cohorts.

AI-POWERED LEARNING ACROSS ALL COURSES

Every program includes integrated AI assistance for intelligent debugging, code suggestions, concept explanations & personalized learning support.

COURSE CATALOG

- **Advanced SQL** — 40 Hours
- **Python** — 40 Hours
- **Angular** — 25 Hours
- **DevOps** — 40 Hours
- **Java** — 40 Hours
- **Shell Scripting** — 25 Hours
- **Git** — 15 Hours
- **Statistical Thinking & Data ...** — 35 Hours
- **HTML, CSS & JavaScript** — 40 Hours
- **React** — 40 Hours
- **Advanced React** — 50 Hours
- **C# Programming** — 40 Hours
- **C# Web Development with ...** — 40 Hours
- **Advanced C#** — 40 Hours
- **Consuming AI with C#** — 40 Hours

15+ COURSES | **550+** HOURS | **Self-Paced** MODE | **Included** PROJECTS

INCLUDED LEARNING AIDS

SME Chat · Video Lectures · Flash Cards · Assessments · Open Lab · Capstone Projects · Live Cohorts · AI Assistance

Advanced SQL

40 Hours | Intermediate to Advanced | Self-Study with Cohort Support

Master complex querying, analytics & enterprise databases

COURSE OVERVIEW

Designed for professionals with foundational SQL knowledge who want to master complex querying, analytics, and enterprise-scale database concepts.

KEY MODULES

1. **RDBMS Fundamentals**
   - Relational Databases
   - Data Warehouse & Lakehouse
2. **Advanced Querying**
   - Joins & Subqueries
   - Window Functions & CTEs
3. **OLAP & OLTP Systems**
   - Dimensional Modeling
   - Data Warehouse Schemas
4. **Database Design & Optimization**
   - ACID & Normalization
   - Indexing & Performance Tuning
5. **NoSQL Databases**
   - CAP Theorem
   - DynamoDB & CRUD Operations
6. **Database Programmability**
   - Stored Procedures
   - User-Defined Functions

IDEAL FOR

- Data Analysts & BI Professionals
- Database Developers
- Aspiring Data Engineers

CAREER VALUE

- Advanced roles in data analytics & engineering
- Portfolio-ready capstone project
- Job-ready SQL expertise

LEARNING AIDS

- SME Chat
- Videos
- Flash Cards
- Assessments
- Capstone Project
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Write & optimize complex SQL queries
- Apply OLAP and OLTP systems effectively
- Design scalable relational schemas
- Work with NoSQL databases like DynamoDB

Python

40 Hours | Beginner to Advanced | Self-Study with Cohort Support

From fundamentals to advanced problem solving & data tools

COURSE OVERVIEW

A comprehensive Python course covering basics, OOP, data structures, file handling, APIs, PySpark, testing, and data science libraries.

KEY MODULES

1. **Python Basics & OOP**
   - Data Types & Control Flow
   - Classes, Inheritance & Polymorphism
2. **Data Structures & Algorithms**
   - Stack, Queue, Trees, Graphs
   - Sorting & Search Algorithms
3. **File Handling & Error Management**
   - Read/Write Operations
   - Exception Handling Best Practices
4. **APIs, Web Scraping & Concurrency**
   - REST APIs & BeautifulSoup
   - ThreadPool & ProcessPool Executors
5. **PySpark, NumPy & Pandas**
   - DataFrames & RDDs
   - Data Processing & ML Basics

IDEAL FOR

- Beginners in programming
- Data Analysts & Scientists
- Backend Developers

CAREER VALUE

- Full-stack Python development
- Data science & ML foundations
- Automation & scripting expertise

LEARNING AIDS

- SME Chat
- Videos
- Flash Cards
- Assessments
- Capstone Project
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Build applications using OOP principles
- Integrate APIs and scrape web data
- Implement data structures & algorithms
- Process data with PySpark, NumPy & Pandas

Angular

25 Hours | Intermediate | Self-Study with Cohort Support

Build dynamic single-page applications with Angular & TypeScript

COURSE OVERVIEW

Learn Angular from web fundamentals to building full end-to-end projects with components, routing, forms, services, and dependency injection.

KEY MODULES

1. **Web Fundamentals Refresher**
   - HTML, CSS & JavaScript Basics
   - DOM Manipulation
2. **Components & Templates**
   - Component Architecture
   - Directives: *ngIf & *ngFor
3. **Data Binding & Services**
   - One-Way & Two-Way Binding
   - Dependency Injection
4. **Routing & Forms**
   - Client-Side Routing
   - Template-Driven & Reactive Forms
5. **End-to-End Project**
   - Full Angular Application
   - Real-World Architecture

IDEAL FOR

- Frontend Developers
- JavaScript/TypeScript Engineers
- Full-Stack Developers

CAREER VALUE

- Frontend engineering roles
- Enterprise web application development
- Angular ecosystem proficiency

LEARNING AIDS

- SME Chat
- Videos
- Presentations
- Assessments
- End-to-End Project
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Build SPAs with Angular components
- Configure client-side routing
- Implement reactive data binding patterns
- Develop production-ready Angular apps

DevOps

40 Hours | Intermediate to Advanced | Self-Study with Cohort Support

CI/CD, containers, orchestration, IaC & cloud infrastructure

COURSE OVERVIEW

A comprehensive DevOps course spanning Linux, Git, CI/CD, Docker, Kubernetes, Terraform, AWS, monitoring, and security practices.

KEY MODULES

1. **Linux & Git Essentials**
   - Linux Commands & Shell
   - Git & GitHub Workflows
2. **CI/CD Pipelines**
   - Jenkins & GitHub Actions
   - Build & Package Management
3. **Docker & Kubernetes**
   - Containerization & Images
   - Orchestration & Scaling
4. **Terraform & AWS Cloud**
   - Infrastructure as Code
   - AWS Services & Architecture
5. **Monitoring & DevSecOps**
   - Logging & Observability
   - Security Best Practices

IDEAL FOR

- System Administrators
- Software Engineers
- Cloud & Infrastructure Engineers

CAREER VALUE

- DevOps Engineer & SRE roles
- Cloud infrastructure expertise
- End-to-end delivery pipeline mastery

LEARNING AIDS

- SME Chat
- Videos
- Presentations
- Assessments
- Capstone Project
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Build and manage CI/CD pipelines
- Containerize apps with Docker & Kubernetes
- Provision infrastructure with Terraform
- Implement monitoring & security practices

Java

40 Hours | Beginner to Intermediate | Self-Study with Cohort Support

Core Java, OOP, collections, multithreading & advanced concepts

COURSE OVERVIEW

Master Java from basics to advanced topics including OOP, collections, multithreading, JDBC, and Java 8 features like Streams and Lambdas.

KEY MODULES

1. **Java Basics & Syntax**
   - JVM, JRE, JDK Overview
   - Data Types, Variables & Operators
2. **OOP Concepts**
   - Inheritance & Polymorphism
   - Encapsulation & Abstraction
3. **Collections & I/O**
   - List, Set, Map & Generics
   - File Handling & Serialization
4. **Multithreading**
   - Thread Synchronization
   - Inter-thread Communication
5. **Advanced Java**
   - JDBC & Servlets
   - Java 8 Streams & Lambdas

IDEAL FOR

- Beginner Programmers
- Backend Developers
- Computer Science Students

CAREER VALUE

- Backend & enterprise Java development
- Android development foundation
- Strong CS fundamentals for interviews

LEARNING AIDS

- SME Chat
- Videos
- Flash Cards
- Assessments
- Assignments
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Build robust Java applications using OOP
- Work with collections & generics
- Implement multithreaded programs
- Use Java 8 features for modern development

Shell Scripting

25 Hours | Beginner to Intermediate | Self-Study with Cohort Support

Automate, manage & control systems with powerful shell scripts

COURSE OVERVIEW

Learn shell scripting from basics to advanced topics including process management, file handling, regex, error handling, and system administration.

KEY MODULES

1. **Shell Basics & Commands**
   - Types of Shells
   - File Ops & Permissions
2. **Variables & Control Structures**
   - Loops & Conditionals
   - Functions & Arguments
3. **String & File Operations**
   - Regex & Pattern Matching
   - I/O Redirection & Piping
4. **Process & Job Management**
   - Foreground & Background Jobs
   - Signals & Traps
5. **Advanced Scripting**
   - Debugging Techniques
   - Cron Scheduling & Admin Scripts

IDEAL FOR

- System Administrators
- DevOps Engineers
- Linux Power Users

CAREER VALUE

- Linux system administration
- DevOps automation skills
- Server management expertise

LEARNING AIDS

- SME Chat
- Videos
- Presentations
- Assessments
- Assignments
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Write efficient automation scripts
- Handle files and I/O operations
- Manage processes and system resources
- Schedule tasks and debug scripts

Git

15 Hours | Beginner to Intermediate | Self-Study with Cohort Support

Version control, collaboration, CI/CD & best practices

COURSE OVERVIEW

Master Git from basics to advanced workflows including branching, merging, GitHub collaboration, CI/CD with GitHub Actions, and security best practices.

KEY MODULES

1. **Git Basics & Commits**
   - Repository Setup & Cloning
   - Staging, Committing & History
2. **Branching & Merging**
   - Feature Branch Workflow
   - Conflict Resolution
3. **Remote Repos & Collaboration**
   - Push, Pull & Forking
   - Pull Requests & Code Reviews
4. **Advanced Git**
   - Rebase, Stash & Cherry-pick
   - Tagging & Release Management
5. **GitHub Actions & Security**
   - CI/CD Workflow Automation
   - Branching Strategies & Security

IDEAL FOR

- All Software Developers
- Team Leads & Project Managers
- Open Source Contributors

CAREER VALUE

- Essential for every developer role
- Team collaboration proficiency
- Open source contribution readiness

LEARNING AIDS

- SME Chat
- Videos
- Mini Projects
- Assessments
- Final Project
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Manage code with branching & merging
- Collaborate via Pull Requests & reviews
- Automate workflows with GitHub Actions
- Apply Git security best practices

Statistical Thinking & Data Analysis

35 Hours | Beginner to Intermediate | Self-Study with Cohort Support

Statistical thinking, hypothesis testing & data-driven decisions

COURSE OVERVIEW

Build a strong statistical foundation covering descriptive & inferential statistics, distributions, hypothesis testing, and data-driven decision making.

KEY MODULES

1. **Statistical Thinking**
   - Descriptive vs Inferential
   - Variation & Quality
2. **Data Types & Distributions**
   - Normal, Binomial & Poisson
   - Frequency & Visualization
3. **Data Analysis Fundamentals**
   - Correlation & Trend Analysis
   - Scaling & Missing Values
4. **Hypothesis Testing**
   - t-test, z-test, ANOVA
   - Central Limit Theorem
5. **Applied Statistical Thinking**
   - Data-Driven Storytelling
   - Quality & Decision Making

IDEAL FOR

- Data Analysts & Scientists
- Business Intelligence Professionals
- Quality Assurance Engineers

CAREER VALUE

- Data analytics & science roles
- Business intelligence expertise
- Foundation for machine learning

LEARNING AIDS

- SME Chat
- Videos
- Pandas Profiling
- Assessments
- Assignments
- Live Cohorts
- AI Assistance

LEARNING OUTCOMES

- Apply statistical methods to real datasets
- Perform hypothesis testing confidently
- Visualize and interpret data distributions
- Make data-driven decisions with confidence

HTML, CSS & JavaScript

40 Hours | Beginner | Self-Study with Cohort Support

Learn modern web development from scratch

COURSE OVERVIEW

Build a strong foundation in web development by learning HTML, CSS and JavaScript with hands-on projects and responsive web design.

KEY MODULES

1. **Intro to Web Development**
   - Browser Fundamentals
   - Development Environment
2. **HTML Fundamentals**
   - Semantic HTML
   - Forms & Accessibility
3. **CSS Fundamentals**
   - Flexbox & Responsive Design
   - Box Model & Positioning
4. **JavaScript Fundamentals**
   - DOM Manipulation
   - ES6 Features
5. **Advanced CSS**
   - CSS Grid
   - Animations & Variables
6. **Advanced JavaScript**
   - Fetch API
   - Async Programming
7. **Projects**
   - Portfolio Website
   - API-based Application

IDEAL FOR

- Students
- Beginners in Web Development
- Aspiring Frontend Developers

CAREER VALUE

- Strong web development foundation
- Portfolio-ready projects
- Preparation for React development

LEARNING AIDS

- Videos
- Coding Exercises
- Assessments
- Projects
- Flash Cards
- AI Assistance
- SME Chat

LEARNING OUTCOMES

- Build semantic HTML pages
- Develop interactive web applications with JavaScript
- Create responsive websites using CSS
- Complete real-world frontend projects

React

40 Hours | Intermediate | Self-Study with Cohort Support

Build modern single-page applications with React

COURSE OVERVIEW

Master React fundamentals including components, hooks, routing, state management and deployment through practical applications.

KEY MODULES

1. **Quick Review of Web Basics**
   - HTML/CSS Refresh
   - JavaScript Essentials
2. **Introduction to React**
   - JSX
   - Components & Props
3. **React State and Events**
   - useState
   - Event Handling
4. **React Effects and Lifecycle**
   - useEffect
   - Data Fetching
5. **React Router and Navigation**
   - Routing
   - Navigation
6. **Advanced React Concepts**
   - Redux & Context API
   - Custom Hooks
7. **React Project and Deployment**
   - Real-world Project
   - Netlify/Vercel Deployment

IDEAL FOR

- Frontend Developers
- JavaScript Developers
- UI Engineers

CAREER VALUE

- Industry-standard frontend framework
- Production-ready React portfolio
- Foundation for Full Stack development

LEARNING AIDS

- Videos
- Coding Exercises
- Projects
- Assessments
- Flash Cards
- AI Assistance
- Live Cohorts

LEARNING OUTCOMES

- Understand React architecture
- Build reusable React components
- Integrate REST APIs
- Deploy React applications

Advanced React

50 Hours | Advanced | Self-Study with Cohort Support

Develop enterprise-grade React applications

COURSE OVERVIEW

Learn advanced React architecture including SSR, routing, API integration, TypeScript and production-ready application development.

KEY MODULES

1. **JSX in Depth**
   - Runtime Components
   - Advanced JSX
2. **Routing in React**
   - Dynamic Routes
   - Nested Routing
3. **API Calls with React**
   - Axios
   - Error Handling
4. **Server Side Rendering**
   - Server Components
   - SSR Concepts
5. **React Ecosystem**
   - Webpack
   - TypeScript & Vite
6. **Advanced React Concepts**
   - Redux
   - Performance Optimization
7. **React Project and Deployment**
   - Production Project
   - Testing & Deployment

IDEAL FOR

- Experienced React Developers
- Frontend Architects
- Full Stack Developers

CAREER VALUE

- Senior Frontend Developer skills
- Enterprise React expertise
- Production deployment experience

LEARNING AIDS

- Videos
- Projects
- Assessments
- Flash Cards
- AI Assistance
- SME Chat
- Live Cohorts

LEARNING OUTCOMES

- Master React ecosystem tools
- Implement advanced state management
- Develop production-ready SSR applications
- Optimize application performance

C# Programming

40 Hours | Beginner to Intermediate | Self-Study with Cohort Support

Master modern C# and .NET application development

COURSE OVERVIEW

Learn C#, object-oriented programming, .NET Core, Entity Framework and REST API development with practical labs.

KEY MODULES

1. **C# Fundamentals**
   - OOP Concepts
   - Exception Handling
2. **Advanced C#**
   - LINQ
   - Async Programming
3. **.NET Core Essentials**
   - Dependency Injection
   - Logging
4. **Entity Framework Core**
   - ORM
   - Database Migrations
5. **API Development**
   - REST APIs
   - Swagger/OpenAPI

IDEAL FOR

- .NET Developers
- Software Engineers
- Backend Developers

CAREER VALUE

- .NET Developer career path
- Enterprise backend development
- REST API expertise

LEARNING AIDS

- Videos
- Coding Labs
- Projects
- Assessments
- Flash Cards
- AI Assistance
- SME Chat

LEARNING OUTCOMES

- Understand C# syntax and OOP
- Use .NET Core effectively
- Write asynchronous applications
- Build REST APIs with EF Core

C# Web Development with ASP.NET

40 Hours | Intermediate | Self-Study with Cohort Support

Build secure enterprise web applications using ASP.NET Core

COURSE OVERVIEW

Develop modern ASP.NET Core applications using Razor Pages, Blazor, Entity Framework and REST API integration.

KEY MODULES

1. **Introduction to ASP.NET Core**
   - Framework Overview
   - Project Structure
2. **Razor Pages**
   - Routing
   - Validation
3. **Blazor Basics**
   - Components
   - Lifecycle
4. **State Management**
   - Dependency Injection
   - Application State
5. **Data Access**
   - Entity Framework
   - CRUD Operations
6. **API Integration**
   - REST APIs
   - HttpClient
7. **Hands-on Project**
   - Authentication
   - Deployment

IDEAL FOR

- .NET Developers
- Backend Developers
- Full Stack Developers

CAREER VALUE

- Enterprise web development
- Full Stack .NET skills
- Production-ready application development

LEARNING AIDS

- Videos
- Projects
- Assessments
- SME Chat
- Flash Cards
- AI Assistance
- Live Cohorts

LEARNING OUTCOMES

- Understand ASP.NET ecosystem
- Build secure web applications
- Integrate APIs and databases
- Use Entity Framework Core

Advanced C#

40 Hours | Advanced | Self-Study with Cohort Support

Build scalable enterprise and microservices applications

COURSE OVERVIEW

Master advanced C# concepts including microservices, LINQ optimization, EF Core, concurrency and multithreaded programming.

KEY MODULES

1. **Introduction to Microservices**
   - REST Microservices
   - JWT & OAuth
2. **Advanced LINQ**
   - Expression Trees
   - Performance Tuning
3. **Entity Framework Core**
   - Relationships
   - Performance Profiling
4. **Concurrency in EF & Databases**
   - Isolation Levels
   - Transactions
5. **Multithreading and Parallelism**
   - TPL
   - PLINQ
6. **Capstone Project**
   - Enterprise Application
   - Microservices

IDEAL FOR

- Senior .NET Developers
- Backend Engineers
- Solution Architects

CAREER VALUE

- Senior .NET Developer skills
- Enterprise architecture knowledge
- Microservices expertise

LEARNING AIDS

- Videos
- Projects
- Assessments
- Flash Cards
- AI Assistance
- SME Chat
- Live Cohorts

LEARNING OUTCOMES

- Build microservices
- Handle database concurrency
- Optimize complex LINQ queries
- Develop parallel applications

Consuming AI with C#

40 Hours | Intermediate to Advanced | Self-Study with Cohort Support

Integrate Generative AI into enterprise .NET applications

COURSE OVERVIEW

Learn to integrate LLMs, Vision, Speech and Embedding services into C# applications while managing token usage, costs and enterprise scalability.

KEY MODULES

1. **Foundation of AI Services**
   - LLMs
   - Vision & Speech APIs
2. **C# Essentials for AI Integration**
   - HttpClient
   - JSON & Dependency Injection
3. **Working with LLMs**
   - Prompt Engineering
   - Token Management
4. **Consuming Other AI Services**
   - Vision APIs
   - Embeddings
5. **Token and Cost Management**
   - Cost Optimization
   - Monitoring
6. **Enterprise Integration and Scaling**
   - ASP.NET Integration
   - Caching & Scaling

IDEAL FOR

- .NET Developers
- AI Engineers
- Enterprise Application Developers

CAREER VALUE

- AI application development skills
- Enterprise AI integration expertise
- Future-ready .NET development

LEARNING AIDS

- Videos
- Hands-on Labs
- Assessments
- AI Playground
- Flash Cards
- SME Chat
- AI Assistance

LEARNING OUTCOMES

- Integrate AI services using C#
- Optimize token usage and costs
- Build enterprise AI applications
- Implement scalable AI solutions

Ready to upskill your team?

Bring ICLeaF's structured curriculum, guided projects and flexible delivery models to your organization. Create tailored learning paths that align to your roles, technology stack and growth plan.

Share this brochure with stakeholders or connect with us to design a custom learning journey.

- SME Chat
- Video Lectures
- Assessments
- Capstone Projects
- Open Lab
- Cohort Sessions

Available across **self-paced, blended and cohort-based models** with SME interaction and lab support.

ICLeaF™

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