

Application Development Fundamentals

Course Duration : 40 Hours

Course code : ADF

1. Course Overview

The Application Development Fundamentals course provides learners with a strong foundation in designing, developing, testing, and maintaining modern applications. This course introduces core application development concepts, programming logic, development frameworks, and application lifecycle practices. It is ideal for beginners and professionals who want to understand how applications are built and deployed in today's digital environments.

2. What you'll learn?

- Fundamentals of application development and architecture
- Programming logic and application flow
- Application development life cycle (ADLC)
- Front-end and back-end development basics
- Testing, debugging, and deployment fundamentals
- Secure and scalable application development principles

3. Target Audience

- Beginners starting a career in application development
- Students and fresh graduates in IT or computer science
- IT professionals transitioning into development roles
- Business analysts and technical consultants
- Anyone interested in understanding application development

4. Pre-Requisites

- Basic computer knowledge
- Logical thinking and problem-solving skills
- No prior programming experience required

5. Course Content (Modules)

Module 1: Introduction to Application Development

- Application types and architectures
- Roles and responsibilities in development teams

Module 2: Programming and Logic Fundamentals

- Programming concepts and syntax basics
- Control structures and data handling

Module 3: Application Development Life Cycle (ADLC)

- Requirements, design, development, and testing
- Agile and modern development practices

Module 4: Front-End and Back-End Fundamentals

- User interface and user experience basics
- Server-side and database concepts

Module 5: Testing, Deployment, and Security Basics

- Application testing and debugging
- Deployment models and secure development principles