



Techi Kids

Cygnat Infotech Pvt. Ltd.



ISO 9001:2000

ISO 27001:2005



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Objective

This is a Career Development Course to take a person from basic computer background to Get Ready for an IT Job.

When to Attend

- When you are planning a serious career in Software Engineering
- When you intend to improve your employability with the IT employers

Benefits

- Exposure to IT essentials
- Exposure to industry standard Software Development Life Cycle with ASP .NET - C#
- Successful Completion of final Semester curriculum Project Work
- An opportunity to work in real time environment on Live Projects (ISO, CMMI)
- Exposure to complete Software Development Life Cycle (SDLC)
- Improved Placement Opportunities
- Recruitment opportunity with Software Division
- Free Resume posting on our job portal

Contribution towards Microsoft Certification Exams

- 70–536 TS: Microsoft .NET Framework 2.0–Application Development Foundation
- 70–528 TS: Microsoft .NET Framework 2.0–Web-Based Client Development

Pre-requisites

- Basic familiarity with using a computer
- Ability to perform simple file access tasks, such as browsing a directory structure, opening and saving files and creating folders.

Courses Covered

Code	Title
CC-101	Introduction to Programming
CC-102	OOPS Principles
CC-103	Programming with C#
CC-104	Implementing a Microsoft SQL Server 2005 Database
CC-105	Introduction to Programming Microsoft .NET Framework Applications with MS VS 2005
CC-106	Project Initiation
CC-107	System Analysis
CC-108	System Design
CC-112	Core Foundations of Microsoft .NET 2.0 Development
CC-113	Core Web Application Technologies with Microsoft Visual Studio 2005
CC-114	Core Data Access with Microsoft Visual Studio 2005
CC-109	Project Development
CC-110	Software Testing
CC-111	Deployment



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At Course Completion

After completing this course, students will be able to:

Analysis

1. Domain understanding
2. Broad Scenario In Requirement Analysis
3. Inputs and Outputs for Requirement Analysis
4. Work Flow for Requirement Analysis
5. Software Requirements Specifications
6. Mock-Up Design

Design

1. What is Design Phase.
2. Purpose of Design Phase.
3. Input and Output of Design phase.
4. Workflow
5. System Architecture design
6. Database Normalization

Programming Concepts

1. Fundamental concepts and terminology of software application development
2. Describe the software development process
3. Describe the purpose of programming & software development
4. Windows & Web application introduction

OOPS Concepts

1. Fundamental Concepts and terminology of OOPS
2. Understand importance of OOPS in Programming
3. Develop a programming model using OOPS

Database Concepts

1. Create databases and database files.
2. Create data types and tables.
3. Plan, create, and optimize indexes.
4. Implement data integrity in Microsoft SQL Server 2005 databases by using constraints & triggers
5. Implement views.
6. Implement stored procedures, functions.
7. Implement managed code in the database.
8. Manage transactions and locks.

Programming with C#

1. List the major elements of the .NET Framework and explain how C# fits into the .NET Platform.
2. Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.
3. Create, name, and assign values to variables.
4. Use common statements to implement flow control, looping, and exception handling.
5. Create methods (functions and subroutines) that can return values and take parameters.
6. Create, initialize, and use arrays.
7. Explain the basic concepts and terminology of object-oriented programming.
8. Use common objects and reference types.
9. Create, initialize, and destroy objects in a C# application. Build new C# classes from existing classes.
10. Create self-contained classes and frameworks in a C# application.
11. Define operators, use delegates, and add event specifications. Implement properties and indexers.
12. Use predefined and custom attributes.

Core Foundations of Microsoft .NET 2.0 Development

1. Understand the purpose and components of the .NET 2.0 Framework and the common language runtime.
2. Understand and use the .NET Framework 2.0 common type system (CTS).
3. Understand basic language syntax for decision structures, loop structures, and variables.
4. Write code by using language-specific functionality such as the My. classes for Visual Basic.
5. Understand and use classes, objects, methods, properties, and functions.
6. Write code to implement overridden methods, static (Visual C#) or Shared (Visual Basic) methods, and properties.
7. Use type conversions and text conversions.
8. Create and use solutions and projects by using Visual Studio 2005.
9. Use the Visual Studio 2005 object browser and the Visual Studio help system.

Core Web Application Technologies with Microsoft Visual Studio 2005

1. Create a Web application
2. Program a Web application.
3. Add and configure server controls for a Web application.
4. Use master pages to establish a common layout for a Web application.
5. Manage state data for a Web application.
6. Access and display data in a Web application.
7. Control access to a Web application.
8. Introduction to AJAX
9. Web Services

Core Data Access with Microsoft Visual Studio 2005

1. Connect to databases and read data.
2. Query and update databases by using commands.
3. Perform transactional operations.
4. Perform disconnected operations programmatically.
5. Perform disconnected operations by using Visual Studio 2005 wizards.
6. Perform XML operations on disconnected data.
7. Read and write XML data.

Software Testing

1. Fundamentals of Software Testing
2. Software Development Life Cycle
3. Testing Terms
4. Verification and Validation
5. Types of Testing and Levels of testing
6. Testing Life Cycle
7. Test Planning and Management
8. Quality Management
9. Defect Management
10. Introduction to Automated Testing