



Techi Kids

Cygnat Infotech Pvt. Ltd.



ISO 9001:2000

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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 with J2EE
- 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
- Free Resume posting on our job portal
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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-J	Introduction to Programming
CC-102	OOPS Principles
CC-103-J	Programming with Java
CC-104	2779-Implementing a Microsoft SQL Server 2005 Database
CC-105-J	Introduction to Programming Java Applications with Netbeans IDE 6.0
CC-106	Project Initiation
CC-107	System Analysis
CC-108	System Design
CC-112-J	Core Foundations of Java Web Development
CC-114-J	Data Access with JDBC
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.
7. Implement functions.
8. Implement managed code in the database.
9. Manage transactions and locks.

Programming with Java

1. List the major elements of the JDK.
2. Analyze the basic structure of an 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 an application.
10. Build new classes from existing classes.
11. Create self-contained classes.
12. Define operators and add event specifications.

Core Foundations of Java Web Development

1. Understanding J2EE Architecture.
2. Understanding Servlet Basics.
3. Using Servlets
4. Understanding JSP.
5. Using JSP.

Data Access with JDBC

1. Connect to databases and read data.
2. Query and update databases by using commands.
3. Perform transactional operations.
4. 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



Cygnet Training Center

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