



DYNAMIC COMPUTER EDUCATION

An ISO 9001 : 2008 Certified Institute

Learn **Diploma In**

Software Programming

Operating System, C/C++, HTML, CSS, Python, Java, Framework- Spring, Django,
SQL, C#/.Net

Enroll Today **Limited Seat Available**

2 Year Course Duration

~~30%~~ OFF

Recommended for!

**ENGINEERING, BSC.IT, BCA, MCA,
STUDENTS**

MODULE 01 - OPERATING SYSTEMS

- Process Management
- File Management
- Command Interpreter
- System Calls
- Signals
- Network Management
- Security Management
- I/O Device Management
- Secondary Storage Management
- Main Memory Management

1 Month Course Duration

MODULE 02 - C PROGRAMMING LANGUAGES

- Getting Started With C
- Knowledge Of Variables & Data Types
- Use Of Mathematical Logical & Relational Operators
- Fundamentals Of Input / Output
- File Handling System
- Conditions, Loops, Arrays
- Udf (user Define Function)
- Understanding Pointer & Structure

2-3 Months Course Duration

MODULE 03 -

C++ PROGRAMMING LANGUAGES

- About OOps Concepts
- Classes And Objects
- Constructor And Destructor
- Encapsulation, Inheritance And Polymorphism
- Data Conversion, Linked List & File Handling
- Data Structure Using C/c++
- Dynamic & Early Binding, Virtual Functions & Classes
- Exception Handling

2-3 Months Course Duration

MODULE 04 -

HTML

- Overview
- Basic Tags
- Elements
- Attributes
- Formatting
- Meta Tags
- Comments
- Images
- Tables
- Lists
- Text
- Image Links
- Email Links
- Iframes

- Blocks
- Backgrounds
- Colors
- Fonts
- Forms.
- Embed Multimedia
- Marquees
- Header
- Style Sheet
- Layouts

2-3 Months Course Duration

MODULE 05 - CSS

- Introduction
- Syntax
- Selectors
- How To Add CSS
- Order
- Comments
- Colors
- Backgrounds
- Borders
- Margins
- Padding
- Height/Width
- Box Model
- Outline
- Text
- Fonts
- Icons
- Links

- Lists
- Tables
- Responsive Tables
- Position
- Z-Index
- Overflow
- Float
- Align
- Opacity
- Navigation Bar
- Dropdowns
- Image Gallery
- Forms
- Website Layout
- Units
- !Important

2-3 Months Course Duration

MODULE 06 - CORE JAVA

- OVERVIEW
- ENVIRONMENT
- BASIC SYNTAX
- VARIABLE TYPES
- BASIC OPERATORS
- DECISION MAKING
- LOOPS
- NUMBERS
- STRINGS
- LISTS
- TUPLES
- DICTIONARY
- DATE AND TIME

2-3 Months Course Duration

MODULE 07 - CORE C# / .NET

- ENVIRONMENT
- PROGRAM STRUCTURE
- BASIC SYNTAX
- DATA TYPES
- TYPE CONVERSION
- VARIABLES
- CONSTANTS AND LITERALS
- OPERATORS
- DECISION MAKING
- LOOPS
- ENCAPSULATION

MODULE 08 - CORE PYTHON

- Overview
- Environment
- Basic Syntax
- Variable Types
- Basic Operators
- Decision Making
- Loops
- Numbers
- Strings
- Lists
- Tuples
- Dictionary
- Date And Time
- Functions
- Modules
- Files I/O
- Exceptions
- Classes And Objects

2-3 Months Course Duration

MODULE 09 - SQL SERVER

- SQL Server Overview
- Handling Data in a Database
- Objects Creating & Managing Indexes
- Data Correlation
- Transactions & locks
- Functions, Constructs & Cursors

- Triggers & Stored Procedures
- Advanced Text Queries
- Working with Distributed Data

2-3 Months Course Duration

MODULE 10 -

SELECT ONE SPECIALIZATION

ADVANCE JAVA

Servlets & JSP

- Web Application Introduction
- Servlet Introduction and First Program
- HttpServlet Hierarchy
- Servlet Life Cycle
- "web.xml" file Explanation
- Annotations in Java & Servlet
- Request Object (HttpServletRequest & HttpServletResponse)
- Http Methods; Difference between GET & POST
- Servlet Communication; sendRedirect() vs RequestDispatcher
- Session Management (HttpSession)
- HttpSession Internal Working
- Cookies URL-Rewriting
- Hidden Form Field
- ServletContext
- ServletConfig
- Filters in Servlet
- JSP Introduction
- JSP Life Cycle
- JSP Tags Categories
- JSP Scripting Tags (Scripting, Directive &

- Expression Tag)
- JSP Directive Tags (Page, Include & Taglib
- DirectiveTag)
- JSP Action Tags (Standard & Custom Action Tags)
- JSP Implicit Objects
- Expression Language
- JSTL (JSP Standard Tag Library)
- MVC Design Pattern

2-3 Months Course Duration

ADVANCE PYTHON

- Overview
- Environment
- Basic Syntax
- Variable Types
- Basic Operators
- Decision Making
- Loops
- Numbers
- Strings
- Lists
- Tuples
- Dictionary
- Date And Time
- Functions
- Modules
- Files I/O
- Exceptions
- Classes And Objects
- Database Access
- Multithreading
- Map Function

- Itertools
- Lambda Function
- Exception Handling
- Decorators
- Collections
- Generators
- Magic Methods
- Regular Expressions
- Threading

3-4 Months Course Duration

ADVANCE C# / .NET

- Environment
- Program Structure
- Basic Syntax
- Data Types
- Type Conversion
- Variables
- Constants And Literals
- Operators
- Decision Making
- Loops
- Encapsulation
- Methods
- Arrays
- Strings
- Structures
- Enums
- Classes
- Inheritance
- Polymorphism
- Operator Overloading
- Interfaces
- .Namespaces
- Exception Handling
- .File I/O
- .Delegates
- .Events
- Collections
- Generics
- Multithreading

2-3 Months Course Duration

MODULE 11-

SELECT ONE FRAMEWORK

SPRING / SPRING BOOT

Chapter 1 : **SPRING CORE MODULE**

- Advance Java Terminologies
- Spring Introduction
- Spring Container (IOC Container)
- POJO and JavaBean classes
- Spring First Program; Bean Factory & Application Context
- "id" and "name" attribute
- Java Configuration File
- @Component; Bean Scope
- Bean Life Cycle Deep Explanation
- Properties Configuration using XML, Java &
- Annotations
- Properties Configuration using XML (constructor-arg tag)
- Dependency Injection (DI)
- Setter Method DI vs Constructor DI
- P-Namespace and C-Namespace
- DI using Java Config File
- Autowiring Introduction
- XML Based Autowiring
- Autowiring using Annotations
- Other Topics - Global Attributes, Bean Inheritance,
- Abstract Bean, Profiling, Nested Beans, Method Replacer
- Bean Validations
- Logging Explanation; Logging using "Java Logging API"
- Logging using "Log4j"; Logging in Spring

Chapter 2 : MAVEN

- Maven Deep Explanation
- Purpose and benefits of using Maven
- POM File
- Maven using CMD

Chapter 3 : SQL & JDBC

- Database Introduction
- Download & Install MySQL
- SQL Introduction & SQL Commands
- JDBC Introduction; Database Connection
- JDBC CRUD Operations - Part 1 (Insert, Update, Delete, Select)
- ResultSet Working
- JDBC Development Approach
- Statement vs PreparedStatement
- SQL Injection Attack
- Batch Updates
- Transaction Management
- DataSource
- Connection Pooling

Chapter 4 : SPRING WITH JDBC,DAO DESIGN PATTERN

- Introduction & Spring JDBC - Insert, Update & Delete
- Plain - JDBC vs Spring - JDBC
- NamedParameterJdbcTemplate
- Spring Batch Updates
- Spring CoNamedParameterJdbcTemplateen Pattern Introduction
- DAO Introduction & programs
- Spring JDBC - DAO

Chapter 5 : SPRING WITH JPA (ORM2)

- JPA Introduction
- Java Persistence API Classes & Interfaces

- JPA Program Explanation
- JPA CRUD Operations
- JPQL (Java Persistence Query Language)
- Named Queries in JPA
- Native SQL Queries in JPA
- Spring with JPA

2-3 Months Course Duration

DJANGO

- History Of Django
- Django – Design Philosophies
- Advantages Of Django
- Overview
- Environment
- Creating A Project
- Apps Life Cycle
- Admin Interface
- Creating Views
- Url Mapping
- Template System
- The Render Function
- Django Template Language (Dtl)
- Filters
- Tags
- Django – Models
- Creating A Model
- Linking Models
- Django – Page Redirection
- Sending E-Mails
- Django – Generic Views

2-3 Months Course Duration

.NET CORE FRAMEWORK

- Overview
- Net Core
- Asp.Net Core
- Environment Setup
- New Project
- Project Layout
- Project.Json
- Configuration
- Middleware
- Exceptions
- Static Files
- Setup Mvc
- Mvc Design Pattern
- Routing
- Attribute Routes
- Action Results
- Views
- Setup Entity Framework
- Dbcontext
- Razor Layout Views
- Razor View Start
- Razor View Import
- Razor Tag Helpers
- Razor Edit Form
- Identity Overview
- Authorize Attribute
- Identity Configuration
- Identity Migrations
- User Registration
- Create A User
- Log In And Log Out

2-3 Months Course Duration

ASP.NET MVC / ASP.NET CORE

- About Mvc
- Mvc Components
- Model
- View
- Controller
- Razor
- Passing Data From A Controller To A View
- Viewdata
- View Bag
- Temp Data
- Session
- Html Helper Methods
- Strongly Typed View
- Partial Views
- Strongly Typed Html Helpers
- Validation Message And Validation Summary Helper Methods
- Data Annotations
- Required Data Annotation
- String Length Data Annotation
- Regular Expression Data Annotation
- Range Data Annotation
- Compare Data Annotation
- Display Name Data Annotation
- Read Only Data Annotation
- Datatype Data Annotation
- Scaffold Column Data Annotation
- Entity Framework
- Code-First Approach
- Database-First Approach
- Model First Approach
- Cookies

2-3 Months Course Duration

CAREER OPTION

- Mobile App Development
- Software Development
- Web Development
- Database Administration
- UI/UX Development &
- Many More


WHAT WE PROVIDE


- Practical Course
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Enroll Today

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