

**Name of the Course: *PG Diploma in Software Technologies***

**Objective of the Course:** This hand on training course has been specifically designed to address the requirements of developers who want to become experts in .NET environment and J2EE™ (Java 2 Enterprise Edition) framework applications. Students will learn to develop applications using C# or VB.NET. They will also learn to apply these languages to develop server-side applications, which make use of ADO.NET, ASP.NET, and Web Services etc. The second module starts with Core Java and covers Advanced Java and J2EE The course contains a substantial amount of Hands-On work. The project work at the end of the course enables students to get an exposure to the latest industrial standards.

**Course Structure:**

<b>Modules</b>	<b>Topic</b>
<b>PGDIS-I</b>	<b>.Net Technologies</b>
<b>PGDIS-II</b>	<b>J2EE</b>
	<b>Project</b>

**Course Fees: Rs. 35000/-**

(Fee is payable in two installments)

First installment: Rs.20000/- may be paid at the time of registration.

Second installment: Rs. 15000/- may be paid after 1 month.

The fees can paid either by way of Demand Draft or local Cheque in favour of **“Director, DOEACC Society, Chandigarh Centre”** payable at **“Chandigarh”**

**Eligibility:** BE/BTech, Msc(IT/ computer Science / Electronics), MCA, BCA or equivalent of any of these. Degree holders with PGDCA, DOEACC A, B level, Diploma Computer Sc, Electronics, or others with relevant experience and final year students also may apply.

**Number of Seats:** 30

**How To Apply:**

1. Students can purchase the prospectus on payment of fee of Rs.250/- in cash or through demand draft and submit application in prescribed form along with and advance fee of Rs.2500/- may be deposited either by bank Demand Draft or Local Cheque in favour of **“Director, DOEACC Society, Chandigarh Centre”** payable at **“ Chandiagrh”**.

2. The form completed in all respects along with supporting documents, advance fee may be sent at the following address (with the corresponding heading at the top of envelope):

<p style="text-align: center;"><b>Application form for Admission</b></p> <p><b>DOEACC SOCIETY, CHANDIGARH CENTRE,</b> <b>SCO 114-116, Sector –17B</b> <b>Chandigarh– 160017.</b></p>
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**Admission Criteria:**

Selection of candidates will be based on the merit subject to eligibility and availability of seats. The selected candidates will be informed telephonically or through Email. Original certificates will be verified, at the time of admission by Front Office counsellor.

**Discontinuing the course:**

No fees under any circumstances shall be refunded in the event of a student discontinuing the course. A student can however, be eligible for module certificates (applicable only for courses which have modular structure) subject to the condition that he has successfully completed the specific modules and has paid the entire course fees.

**Duration:**

6 months (6 hours daily)

**Detailed Syllabus****➤ C#**

Getting Started with .Net Framework, Exploring Visual Studio .NET, Inside a C# Program, Data Types, Statements, Arrays, Using Strings, Objects, Classes and Structs, Properties, Inheritance, Indexers, Delegates, Events, Namespaces, Generics, Collections and Data Structures, Exception Handling, Threading, Using Streams and Files, Reflection, Assemblies, versioning, Windows Forms, Controls, Data binding to Controls, Advanced Database Programming using ADO.net, Using GDI +, Networking, Manipulating XML

**➤ VB.net**

Creating Applications with Visual Basic.NET, Variables, Constants, and Calculations, Making Decisions and Working with Strings, Lists, Loops, Validation, Sub Procedures and Functions, Multiple Forms, Standard Modules, and Menus, Arrays, Timers, Form Controls, File Handling, Exception Handling, Working with Databases, Advanced Database Programming using ADO.net, Classes, Generics, Collections, Inheritance, Custom Controls, Packaging & deployment, Using Crystal Reports.

**➤ Database Concept and SQL server**

Introduction to RDBMS, Database Concepts, Introduction Microsoft SQL Server, Database Connectivity Select, DML Commands like Insert, Update, Delete, SQL Function and group by Clause, Join, Nested Query, Stored Procedures

**➤ ASP.net**

Building a Web Application and project, Examples Using Standard Controls, Using HTML Controls, Validating Form Input Controls using Validation Controls, Understanding Applications and State, Applying Styles, Themes, and Skins, Creating a Layout Using Master Pages, Binding to Databases using Controls, Data Management with ADO.net and Business Objects, Creating a Site Navigation Hierarchy, Navigation Controls, AJAX Tools, Membership and Role Management, Login Controls, Securing Applications, Caching For Performance, Working with XML, Using Crystal Reports in Web Forms.

**➤ Core Java**

Java J2SE 1.4, Data Types, Variables, Arrays, Operators, Control Statements, Java Classes and Objects, Methods, Inheritance, Packages and Interfaces, Exception Handling, Threads and Multi Threading, I/o, String Handling, Java. Lang Collections, Network Programming

**➤ GUI Development**

Java AWT, Text Fields, Buttons, Layout Managers, Event Handling, Applets, Graphics, JFC Swing, Swing Components, Animations

➤ **Database Concept and JDBC Connectivity**

Introduction to RDBMS, Database Concepts, Select, DML Commands like Insert, Update, Delete, SQL Function and group by Clause, Join, Nested Query, Java Database Connectivity, JDBC, JDBC Types, Error Checking and the SQLException Class, The SQLWarning Class, Executing SQL Queries, ResultSet, MetaData , Executing SQL Updates

➤ **J2EE**

Introduction to J2EE, JDBC, RMI , Jar, WAR, JSP, JSTL, Servlets, JNDI, EJB - Session Bean - Stateless, Stateful, Entity Bean - CMP, Entity Bean - BMP, Message Driven Beans

➤ **Project work**

During the project, students are required to develop software in any of the areas covered in the course, under the guidance of the faculty.

**Course enquiries:** Students can enquire about the various courses either telephonically or meet the course coordinators (at Chandigarh Centre) personally during normal working hours (9.00 am to 5.30pm).

**Course Coordinator**

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