



Course	<b>Object Oriented Programming in .NET 3.5/4.0 (VB.NET / C#)</b>																																										
Overview	<p>In this Intensive five-day instructor-led course, in .NET Object-Oriented Programming (C#.NET) introduces developers and IT Professionals to an in-depth language syntax and object-oriented programming elements in .NET (VB.NET or C#).</p> <p>This course provides an alternative entry point for less experienced programmers who are not familiar with object-oriented design and programming with Windows or the Web.</p>																																										
Objectives	<p>The course aims at giving developers an introduction to C#.NET, providing a thorough coverage of fundamental .NET concepts, but at the same time aiming at enabling them to participate in .NET projects the day after. To that end, it also provides a practical introduction to technologies often used together with .NET such as RDBMS, XML, and MS Office Interoperability.</p>																																										
Who should attend	<p>This course is designed for IT Professionals</p>																																										
Prerequisites	<ul style="list-style-type: none"> <li>■ Developers are not necessarily familiar with object-oriented programming.</li> <li>■ Developers who understand computer programming, but may have learned programming by using a non-graphical language.</li> <li>■ Developers who want to build highly functional Web and Windows solutions and Web Services by using Microsoft Visual C# .NET and the Microsoft .NET Framework.</li> <li>■ Programming experience in a high-level procedural programming language will be useful.</li> </ul>																																										
Dates & Duration	<ul style="list-style-type: none"> <li>■ March 05,06,07,08,09, 2012</li> <li>■ 5 days</li> <li>■ 40 teaching hours</li> </ul>	<table border="1"> <thead> <tr> <th colspan="4">Class Time Schedule</th> </tr> <tr> <th>Hr</th> <th>Starts</th> <th>Ends</th> <th>Intervals</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9:30</td> <td>10:15</td> <td></td> </tr> <tr> <td>2</td> <td>10:15</td> <td>11:00</td> <td>11:00-11:15</td> </tr> <tr> <td>3</td> <td>11:15</td> <td>12:00</td> <td></td> </tr> <tr> <td>4</td> <td>12:00</td> <td>12:45</td> <td>12:45-13:00</td> </tr> <tr> <td>5</td> <td>13:00</td> <td>13:45</td> <td></td> </tr> <tr> <td>6</td> <td>13:45</td> <td>14:30</td> <td>14:30-14:45</td> </tr> <tr> <td>7</td> <td>14:45</td> <td>15:30</td> <td></td> </tr> <tr> <td>8</td> <td>15:30</td> <td>16:15</td> <td></td> </tr> </tbody> </table>		Class Time Schedule				Hr	Starts	Ends	Intervals	1	9:30	10:15		2	10:15	11:00	11:00-11:15	3	11:15	12:00		4	12:00	12:45	12:45-13:00	5	13:00	13:45		6	13:45	14:30	14:30-14:45	7	14:45	15:30		8	15:30	16:15	
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Instructors	<p><b>Course Led by <u>Dr. Ioannis Christou</u></b>, AIT Professor</p>																																										
	<p><b>Dr Miltiadis Kokkonidis</b> started his professional career at British Telecom's Research Labs, contributing to BT's Distributed Systems strategy, before joining a small start-up developing lightweight SQL and Java Servlet technology implementations, and subsequently working as a contractor in a number of national and international projects aiming to modernize how modern government organizations and businesses operate internally and/or interact with the public. He holds an MSc in Information Security from Royal Holloway, University of London, an MPhil in Speech, Text, and Internet Technologies from the University of Cambridge, and joined HSE Ltd. upon completing his DPhil research in the latter field at the University of Oxford. He is an experienced instructor, having been involved both with employee training (mostly on .NET, SQL and XML technologies) and postgraduate student teaching (mostly on Java).</p> <p>His skills and understanding of the teaching process have also benefited from specialized training at Oxford University's Centre for Excellence in Teaching and Learning. His courses are informed by an extensive engagement with software technology in the course of his professional and academic career. In the '90s, he worked extensively on implementing core SQL and Web technologies; he participated or lead projects such as one of the first commercial implementations of first publicly released version of the Java Servlet framework, a JDBC driver, a Java-stored procedure plugin, and a statement parallelisation optimizer for a commercial SQL server, and a Public Key Infrastructure Certification Authority management system. In the past decade, his professional work was almost exclusively carried out using .NET technologies and focused on large information management systems for the telecommunications industry (OTE), the military, financial institutions (EuroBank, National Bank of Greece, PostCredit), and governmental organisations in Greece and abroad (most recently: the Greek European Migration Network portal, the Energy Database of Bosnia and Herzegovina, and the Renewable Energy Sources and Combined Heat Production Electronic Registry of Cyprus).</p>																																										
Topics to be Covered	<ul style="list-style-type: none"> <li>■ The .NET Framework: its components and design philosophy</li> <li>■ C# syntax</li> <li>■ Primitive data-types, primitive operators, standard .NET classes, collections, genericity</li> <li>■ Principles of Object-Oriented Design and the .NET Framework</li> <li>■ MS Visual Studio development environment</li> <li>■ Visual Source Safe and collaborative project development</li> <li>■ Interoperability with SQL, XML, Web-services, and COM (specifically with Microsoft Office)</li> <li>■ Advanced user-interface design (Windows Forms and ASP.NET)</li> <li>■ Security</li> </ul>																																										



	<ul style="list-style-type: none"> <li>■ Performance and scalability</li> <li>■ Building large scale data-centric applications using the .NET</li> <li>■ Framework in practice; best practices and practical tips.</li> </ul>
Training Methodology	<p>The course combines</p> <ul style="list-style-type: none"> <li>■ traditional teaching with project-oriented learning.</li> <li>■ enhanced with the use of new technology,</li> </ul> <p>which are particularly effective at communicating the big picture as well as focusing on specific important details.</p> <p>The project-learning component of the teaching methodology helps ensure that</p> <ul style="list-style-type: none"> <li>■ all-important transition from passive learning to practical application is achieved</li> <li>■ within the duration of the course and inside a supportive learning environment.</li> </ul> <p>Each day concludes with the completion of a project specifically designed</p> <ul style="list-style-type: none"> <li>■ to highlight specific elements of the theory presented on that day,</li> <li>■ thus facilitating the timely internalisation of newly acquired theoretical knowledge,</li> <li>■ and providing the kind of practical experience necessary</li> </ul> <p>for being able to engage in .NET projects the day after the course is over.</p>
Course outline	<p><b>1: .net Basics</b></p> <ul style="list-style-type: none"> <li>• .net Platform</li> <li>• Visual Studio IDE</li> <li>• SourceSafe&amp;collaborative application development</li> <li>• Control structures (if, for, while, etc.)</li> <li>• Primitive build-in types (int, float, String, etc.)</li> <li>• Objects and classes</li> <li>• Collections</li> <li>• Genericity</li> <li>• Exception Handling</li> <li>• SQL Server connectivity</li> <li>• XML parsing and generation</li> <li>• Classes, Assemblies, Namespaces</li> <li>• Creating libraries</li> </ul> <p><b>Project 1: Console application</b></p> <p><b>2: Windows Forms</b></p> <ul style="list-style-type: none"> <li>• Built in controls</li> <li>• Form design</li> <li>• Event, delegates and interaction</li> <li>• User controls</li> <li>• Datasources and binding - SQL Server</li> <li>• MS Office Interoperability</li> </ul> <p><b>Project 2: Windows Forms Application</b></p> <p><b>3: Asp.net Basics</b></p> <ul style="list-style-type: none"> <li>• Built in controls</li> <li>• Web essentials (html, css, xml)</li> <li>• Client-side scripting (Javascript), DOM</li> <li>• Datasources and binding in ASP.NET</li> <li>• User controls</li> </ul> <p><b>Project 3: Web Forms Application</b></p> <p><b>4: Asp.net Advanced</b></p> <ul style="list-style-type: none"> <li>• Writing and consuming Web Services</li> <li>• AJAX in .NET</li> <li>• Page Life-Cycle</li> <li>• Authentication</li> </ul> <p><b>Project 4: AJAX Web Forms + Webservices Application</b></p> <p><b>5: Advanced topics</b></p> <ul style="list-style-type: none"> <li>• Security</li> <li>• Mobile application development</li> <li>• Performance and scalability</li> <li>• SilverLight</li> <li>• LINQ</li> <li>• Best practices and practical tips</li> <li>• Legal issues (intellectual property, data protection)</li> </ul> <p><b>Project 5: A mini Content Management System</b></p>
Venue	<p>AIT, Building B7, INTRACOM Campus, 19 km, Markopoulou Av, Peania 190 02</p> <p>How to Reach AIT: <a href="http://www.ait.edu.gr/ait_web_site/how_to_reach_us.jsp">http://www.ait.edu.gr/ait_web_site/how_to_reach_us.jsp</a></p>
Registration Form:	<p><a href="http://hermes.ait.gr/registrations/multiple.php?prog=316">http://hermes.ait.gr/registrations/multiple.php?prog=316</a></p>
Tuition Fee	<p><b>Single Participation: € 1.190,00</b></p> <p>This course is also available for in-house training for 4-10 participants @ competitive pricing        OAED funding may reach up to 100%, for more information please contact us.</p> <p><b>Discount Policy Cancellation Policy</b></p>
Contact	<p>Katerina Protonotariou, Executive Education Manager, AIT, <a href="mailto:krpo@ait.gr">krpo@ait.gr</a>, 210 6682806, extn 5806</p>

