



**EASTERN MEDITERRANEAN UNIVERSITY**  
**SCHOOL OF COMPUTING AND TECHNOLOGY**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**COURSE POLICY SHEET**



<b>Course Code</b>	ITEC420	<b>Course Title</b>	Framework Based Internet Application
<b>Semester</b>	Fall	<b>Language</b>	English
<b>Category</b>	AE (Area Elective)	<b>Level</b>	Fourth Year
<b>Workload</b>	180 Hours	<b>Teaching Format</b>	2 Hours Lecture, 2 Hours Laboratory
<b>EMU Credit</b>	(3,1,0) 3	<b>ECTS Credit</b>	6
<b>Prerequisite(s)</b>	-	<b>Course Web</b>	<a href="http://staff.emu.edu.tr/ibrahimadeshola/en">http://staff.emu.edu.tr/ibrahimadeshola/en</a>

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Course Description
<p>This course focuses on the development of Internet applications. Designing websites/pages and developing database Internet applications will be covered throughout the semester. In order to eliminate tedious coding and to develop all these applications, ASP.NET with C# as the programming language will be used. As relational database management server which will be introduced during the semester is addressed as MS SQL Server. The ASP.NET Web Site Administration Tool will also be covered as part of websites with authentication, access rights and websites ready for e-commerce among the semester.</p>

General Learning Outcomes
<p>On successful completion of this course students should be able to:</p> <ul style="list-style-type: none"><li>▪ Design web applications using ASP.NET</li><li>▪ Use ASP.NET controls in web applications</li><li>▪ Debug and deploy ASP.NET web applications</li><li>▪ Develop database-driven component-based web applications.</li><li>▪ Work with controls and .NET framework.</li><li>▪ Create event-driven applications.</li><li>▪ Design GUI using visual programming languages.</li><li>▪ Easily adapt to any 4th generation programming language. Be aware of current research issues and projects in the IT sector.</li></ul>

Teaching Methodology / Classroom Procedures
<p>The students are expected to be active learners in this course. The teaching methodology of this course is based on a lecture based discussion of concepts followed by supervised as well as unsupervised applications of these concepts in Lab. At the end of every major topic discussion, the students will have to work on corresponding Lab assignments where they have to apply the knowledge and skills they learned in class.</p> <p>The student will be provided at the beginning of each lab session the corresponding Lab Assignments in printed or electronic form at the start of each Lab Session</p> <p>Every week the student has to follow the following :</p> <ul style="list-style-type: none"><li>▪ Two hours of Lectures to learn the basic skills and theoretical information needed.</li><li>▪ Two hours of supervised Lab applications to apply the information/knowledge given during the lectures</li><li>▪ Students are required to attend all classes and all Lab sessions.</li><li>▪ Students are expected to carry out the assigned readings, attend quizzes and submit an assignment on time.</li></ul>

- Students are responsible to know and use all the course material placed on the web (<http://staff.emu.edu.tr/ibrahimadeshola/en/teaching/itec420>) and track the designated dates for timely submission of the assignment and for timely attention to all quizzes.
- There are two practical quizzes which are held one week before the midterm and final exam periods.
- There is a practical midterm exam which covers chapters 1, 2, 3 and 4.
- There is a practical final exam which includes all the chapters.
- There is one term project about developing a web page.
- Individual/Group work(Depends on number of students)
- The subject will be chosen by the instructor.
- There is no report. But students should present their work at the end of the semester.
- Class attendance is compulsory.
- The student is responsible to check the course web site regularly and view the latest announcements.

### Course Materials / Main References

**Text Book:**

Imar Spaanjaars, "Beginning ASP.NET 4 in C# and VB, Wiley Publishing, 2010. SBN: 978-0-470-50221-1

**Resource Books:**

B. Evjen, S. Hanselman, D. Rader, "Professional ASP.NET 4 in C# and VB, Wiley Publishing, 2010.

**Lecture Notes:**

Lecture, Lab and tutorial notes on web link: <http://staff.emu.edu.tr/ibrahimadeshola/en/teaching/itec420>

### Weekly Schedule / Summary of Topics

<b>Week 1-2</b>	Introduction to ASP.NET environment: .NET Framework, Visual Studio Development Environment, ASP.NET.
<b>Week 3-4</b>	The C# Language: Variables and data types, conditional logic, loops, methods and basics of classes.
<b>Week 5-6</b>	Visual Studio and Web Form Fundamentals: Adding web controls, web forms, solution files, hidden files, web form markup, directives, essentials of XHTML, adding event-handlers, debugging, the anatomy of an ASP.NET application, the page class, application events, web.config file.
<b>Week 7</b>	Web Controls & State Management: Web control classes, web control events and AutoPostBack, View State collection, transferring information between pages, cookies, session tracking.
<b>Weeks 8-9</b>	<b>Midterm Examinations</b>
<b>Weeks 10</b>	Error Handling & Tracing and Deploying ASP.NET Applications: Common errors, Exception handling, error modes and page tracking, deploying a simple site.
<b>Week 11</b>	Validation and Rich Controls: Server side validation, client-side validation, validation controls, calendar, Ad Rotator Pages with multiple views.
<b>Weeks 12</b>	Styles, Themes & Master Pages and WebSite Navigation: Creating Stylesheets, applying a simple theme, handling theme conflicts, sitemaps, SiteMapPath control, menu control.
<b>Weeks 13</b>	ADO.NET Fundamentals, Data Binding, and Data Controls: Understanding data management, SQL basics, direct data access, disconnected data access, single-value data binding, repeated-value data binding, data source controls, grid view and details view.
<b>Weeks 14</b>	Website Security: Form authentication, windows authentication, SSL.
<b>Weeks 15-17</b>	<b>Final Examinations</b>

### Requirements

- Each student can have only one make-up exam. One who misses an exam should provide a medical report

within 3 days after the missed exam. The make-up exam will be done at the end of the term and will cover all the topics. No make-up exam will be given for the quizzes.

- Students who do not pass the course and fail to attend the lectures regularly may be given NG grade.
- Students are responsible for every subject that will be covered in the class and lab.
- Students have to be ready for the quizzes.
- Students should attend to the labs and quizzes just on time regularly and submit their assignments.
- Course Web Page must frequently be visited for the course announcements, the exam/quiz results, labs etc.

Evaluation and Grading	Assignments	Quizzes	Midterm Exam	Final Exam
Percentage	30 %	20 %	25 %	25 %