TOROS ÜNİVERSİTESİ

Faculty Of Engıneerıng
Electrıcal And Electronıcs Engıneerıng (Englısh)

Course Information

C# PROGRAMMING					
Code	**Semester**	**Theoretical**	**Practice**	**National Credit**	**ECTS Credit**
		Hour / Week			
CSE325	Spring	2	2	3	5

Prerequisites and co-requisites	
Language of instruction	English
Type	Elective
Level of Course	Bachelor's
Lecturer	Asst. Prof. Omid SHARİFİ
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Students will learn how to: - Create, compile and run object-oriented C# programs using Visual Studio - Write and understand C# language constructs, syntax and semantics - Develop reusable .NET components via interface realization and standard design patterns - Leverage the major namespaces and classes of the .NET Framework - Access databases using Language Integrated Query (LINQ)
Contents of the Course	This course covers software development in the .Net framework and the C# programming language. C# is a new object oriented language that makes full use of this framework and has all the important features that a modern language should have. The topics include the philosophy of the .Net framework and .Net class library, object-oriented programming, event handling, graphical user interfaces and Controls, graphics and medias, multithreading, exception handling, strings and characters, files and database futures.

Learning Outcomes of Course

#	Learning Outcomes
1	Upon successful completion of this course, students will be able to:
2	Design, document, code and test small C# console and GUI applications.
3	Design, document, code and unit test class libraries as part of a larger project.
4	Use an object browser and .NET documentation to examine C# and the .NET framework namespace contents.
5	Use the Visual Studio IDE to create and debug application and class library solutions and projects.
6	Interpret UML class diagrams to create C# classes and applications

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Introduction to the .NET Framework	Lecture
2	Introduction to C# Programming	Lecture
3	Creating the User Interface and using Controls	Lecture
4	String Handling, Files and Streams	Lecture
5	Testing and Debugging Your Application	Lecture
6	Object-Oriented Programming and Polymorphism	Lecture
7	Midterm exam	

8	Collection Classes.	Lecture
9	Data Access Using ADO.NET	Lecture
10	Multi-Threading	Lecture
11	Creating Controls Using the .NET Framework	Lecture
12	LINQ	Lecture
13	Generics	Lecture
14		
15		
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	1 Visual C# (2008 and above) How To Program . DEITEL&DEITEL, T.R.NIETO Prentice Hall 2 An Information System Approach to OOP using MS Visual C# .NET Kyle Lutes, Alka Harriger, Jack Purdum THOMSON Course 3 Visual C# .NET Step By Step, John Sharp, Jon Jagger. Microsoft Press 4 C# Multimedia Cyber Classroom.Deitel, Deitel, Nieto, Yaeger & Zlatkina.		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Upon successful completion of this course, students will be able to:	1	1,2
2	Design, document, code and test small C# console and GUI applications.	1	1,2
3	Design, document, code and unit test class libraries as part of a larger project.	1	1,2
4	Use an object browser and .NET documentation to examine C# and the .NET framework namespace contents.	1	1,2
5	Use the Visual Studio IDE to create and debug application and class library solutions and projects.	1	1,2
6	Interpret UML class diagrams to create C# classes and applications	1	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	2	2

8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	2	2
16	Final Exam	1	1	1
				90