

# TOROS ÜNİVERSİTESİ

Faculty Of Engineering  
Electrical And Electronics Engineering (English)

## Course Information

C# PROGRAMMING					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
CSE325	Spring	3	0	2	3

<b>Prerequisites and co-requisites</b>	
<b>Language of instruction</b>	English
<b>Type</b>	Elective
<b>Level of Course</b>	Bachelor's
<b>Lecturer</b>	
<b>Mode of Delivery</b>	Face to Face
<b>Suggested Subject</b>	
<b>Professional practise ( internship )</b>	None
<b>Objectives of the Course</b>	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)
<b>Contents of the Course</b>	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
				<b>90</b>