TOROS ÜNİVERSİTESİ

Faculty Of Engineering
Electrical And Electronics Engineering (English)

Course Information

ADVANCED PROGRAMMING					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
CSE106	Spring	3	2	3	5

Prerequisites and co-requisites	
Language of instruction	English
Type	Required
Level of Course	Bachelor's
Lecturer	Asst. Prof. Dr. Hüseyin Emre KANKAYA
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Advanced programming topics and object oriented programming.
Contents of the Course	Object oriented programming and class structure, Class examples, Inheritance, Polymorphism, Event driven programming, Recursion, Threads

Learning Outcomes of Course

#	Learning Outcomes
1	Become familiar with the main concepts and processes of object oriented programming;
2	Analyse the concept of classes and their instantiations;
3	Analyse the concept of inheritance, polymorphism, and encapsulation;
4	Analyse the proper handling of exceptional situations in modern programming;
5	Analyse the main concepts of threaded programming;
6	Develop skills in using integrated development environments;
7	Be able to solve computing problems using object-oriented code.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Programming with C#	Lecture
2	Programming basics review (Data types, Conditional statements)	Lecture
3	Programming basics review (Loops)	Lecture
4	Review of Basic algorithms	Lecture
5	Methods	Lecture
6	Object oriented programming and class structure	Lecture
7	Class examples	Lecture
8	MIDTERM	
9	Inheritance	Lecture
10	Polymorphism	Lecture

11	Event driven programming	Lecture
12	Recursion	Lecture
13	Recursion Cont'	Lecture
14	Threads	Lecture
15	Recitation and review	Lecture
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Rebecca M. Riordan Microsoft SQLServer Programming MsPress:ISBN 975-509-272-2		

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	Become familiar with the main concepts and processes of object oriented programming;	1	1,2
2	Analyse the concept of classes and their instantiations;	1	1,2
3	Analyse the concept of inheritance, polymorphism, and encapsulation;	1	1,2
4	Analyse the proper handling of exceptional situations in modern programming;	1	1,2
5	Analyse the main concepts of threaded programming;	1	1,2
6	Develop skills in using integrated development environments;	1	1,2
7	Be able to solve computing problems using object-oriented code.	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	5	70
2	Course Duration Except Class (Preliminary Study, Enhancement)	0	0	0
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	0	0	0
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	10	3	30
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	10	10
16	Final Exam	1	10	10
				121