

Course Description						
Name	Code	Semester	T+A Hour	Credit	ECTS	
APPLICATION DEVELOPMENT for MOBILE DEVICES		COE4167950	Fall Semester	3+0	3	6
Prerequisites Courses	VERİ TABANLARI					
Recommended Elective Courses	Human Machine Interaction					
Language of Instruction	English					
Course Level	First Cycle (Bachelor's Degree)					
Course Type	Elective					
Course Coordinator	Prof.Dr. Mehmet Kemal ÖZDEMİR					
Name of Lecturer(s)	Assist.Prof. Muhsin Zahid UĞUR					
Assistant(s)						
Aim	This is a fourth year undergraduate course on application development for mobile devices. This class has intensive programming work involved and students will receive hands-on experience for building iOS apps with Swift programming language. Lectures will introduce basic to advanced-level iOS topics. □□					
Course Content	This course contains; Week 1 Course Introduction, Swift Basics, Playgrounds, Xcode,UIKit, Functions, Classes, Loops,AutoLayout ,Optionals, Segues ,Tab Bar Controllers ,Scroll Views, Table Views, AlertController,Collection Views, Core Data,Midterm ,Mid-Semester Presentation,Closures, Extensions, Animation, URL Sessions, JSON, Concurrency,Firestore,MapKit, Gesture Recognizer,Final Presentation,Final Exam					
Course Learning Outcomes			Teaching Methods	Assessment Methods		
2	Create iOS applications using different types of view controllers		1, 16	C, D		
1	Demonstrate the MVC pattern □□□□□□□□		1, 16	C, D		
3	Produce multi-screen apps using storyboards and segues		1, 16	C, D		
4	Use auto layout to create adaptive UIs		1, 16	C, D		
5	Build applications that can access online and local data sources		1, 16	C, D		
Teaching Methods	1: Lecture, 16: Project Based Learning					
Assessment Methods	C: Homework, D: Project / Design					
Lecture Schedule						
Sequence	Topics	Preliminary Preparation				
1	Week 1 Course Introduction, Swift Basics, Playgrounds, Xcode	Apple Swift Book - Chapter 1				
2	UIKit, Functions, Classes, Loops	Apple Swift Book - Chapter 2				
3	AutoLayout	Apple Swift Book - Chapter 2				
4	Optionals, Segues	Apple Swift Book - Chapter 3				
5	Tab Bar Controllers	Apple Swift Book - Chapter 3				
6	Scroll Views, Table Views, AlertController	Apple Swift Book - Chapter 4				
7	Collection Views, Core Data	Apple Swift Book - Chapter 4				
8	Midterm	All topics covered until Week 8				
9	Mid-Semester Presentation	Presentation readiness				
10	Closures, Extensions, Animation, URL Sessions, JSON, Concurrency	Apple Swift Book - Chapter 5				
11	Firestore	Additional Sources - Class Notes				
12	MapKit, Gesture Recognizer	Additional Sources - Class Notes				
13	Final Presentation	Presentation readiness				
14	Final Exam □	All topics covered in the semester				
Evaluation Methods			Weight(%)			
Midterm Exam			30			
General Exam			70			

Resources
Apple' s Swift Book on iTunes (https://itunes.apple.com/tr/book/app-development-with-swift/id1219117996?mt=11) □□□□□□□□□□