

CMSE419 Mobile Application Development			
Department: Computer Engineering			
Program Name: Software Engineering & Computer Engineering		Program Code: 29 & 25	
Course Number: CMSE419	Credits: 4 Cr	Year/Semester: 2022-2023 SPRING	
<input type="checkbox"/> Required Course <input checked="" type="checkbox"/> Elective Course (click on and check the appropriate box)			
Prerequisite(s): CMPE211\CMSE211			
Catalog Description: This course is an introduction to mobile device programming that will cover the fundamental programming principles, software architecture and their development environments. Event-driven programming, object-oriented programming, graphical user interface design, database programming and developing Internet based applications for mobile devices will be the main topics of this course.			
Course Web Page: https://staff.emu.edu.tr/ahmetunveren/en			
Textbook(s): <i>Android How to Program, Deitel & Associates Co-Author of Android How to Program: An App-Driven Approach</i> <i>Java in a Nutshell - 5th Edition; or 6th Edition;</i> David Flanagan; O'REILLY.			
Lab Manual: NA			
Indicative Basic Reading List : <i>JAVA - How to program;</i> Deitel & Deitel; Prentice Hall International. SUN tutorials on JAVA (Web pages at https://www.java.com/tr/about/). An Introduction to Object-Oriented Programming with Java, C Thomas Wu, McGraw Hill International Edition.			
Student Outcomes: At the end of the course, student must be able to A. Understand the technical challenges posed by current mobile devices and wireless communications; be able to evaluate and select appropriate solutions. B. Appreciate the need to keep up with rapid changes and new developments; be able to identify current trends in mobile communications technologies and systems. C. Use JAVA SDK and Android SDK software tools and APIs for the development of a mobile application and understand its strengths, scope and limitations. D. Use Android programming tools to design, write and test small interactive programs for mobile devices.			
Assessment	Method	No	Percentage
	Lab Work(s)	10-12	15%
	Assignment	1	5%
	Mid Term Examination	1	40%
	Final Examination	1	40%
Contribution of Course to Criterion 5 Credit Hours for: Mathematics: 0 Discipline Specific Content : 4			
Relationship of Course to Program Outcomes The course supports achievement of the following program objectives 1. 1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics 2. 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.			
Prepared by: Asst. Prof. Dr. Ahmet Ünveren		Date Prepared: 24 February 2023	