

MOBILE PROGRAMMING

1	Course Title:	MOBILE PROGRAMMING
2	Course Code:	EEM4111
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. FAHRİ VATANSEVER
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Adres: Elektrik-Elektronik Mühendisliği bölümü, No:311 Tel: (224) 294 09 05 Web: http://home.uludag.edu.tr/~fahriv E-posta: fahriv@uludag.edu.tr
17	Website:	http://fahriv.home.uludag.edu.tr/
18	Objective of the Course:	Introduction of mobile devices and technologies, operating systems and platforms in these devices; teaching platforms and languages used in software development; ensuring the development of mobile applications according to needs.
19	Contribution of the Course to Professional Development:	Effective use of computer/information/mobil technologies in the professional area
20	Learning Outcomes:	
	1	To gain software development ability in order to accomplish specific tasks
	2	To gain the ability to develop, select, and use modern techniques and tools necessary for engineering applications
	3	To gain the ability to use information technologies in an efficient way
	4	To gain the ability to simulate experiments with developing software for engineering problems
	5	To gain the ability to collect, analyses and interpret data with developing software for engineering problems
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Mobile technologies, devices and operating systems	

2	Fundamentals of mobile programming	
3	Mobile programming platform	
4	Application components	
5	Application components	
6	User interface components	
7	User interface components	
8	General review	
9	Services	
10	Databases	
11	Graphics, multimedia	
12	Map, GPS	
13	General applications	
14	Electrical and Electronics Engineering applications	
22	Textbooks, References and/or Other Materials:	1. Phillips, B., Stewart, C., Marsicano, K., "Android Programming", 3rd ed., Big Nerd Ranch, LLC, 2017. 2. DiMarzio, J.F., "Beginning Android Programming with Android Studio", John Wiley & Sons, Inc., 2017. 3. Firtman, M., "Programming the Mobile Web", 2nd ed., O'Reilly Media, Inc., 2013.
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
		WEIGHT
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
Total		2
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Midterm and final exams
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	16.00	16.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							