WIRELESS EMBEDDED SYSTEMS										
1	Course Title:	WIRELESS EMBEDDED SYSTEMS								
2	Course Code:	BM5132								
3	Type of Course:	Optional								
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	6.00								
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:	Doç. Dr. Murtaza CiCiOĞLU								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	murtazacicioglu at uludag.edu.tr								
17	Website:									
18	Objective of the Course:	1. To introduce Computer Engineering Program, courses offered in the program and related research areas 2. To inform students on Computer Engineering as a profession, problems in computer engineering and their solution methods, and application domains 3. To invite faculty members, assistants, graduates, employers, senior and graduate students as speakers to introduce Computer Engineering Program from different perspectives								
19	Contribution of the Course to Professional Development:	Learning about the scope of computer engineering								
20	Learning Outcomes:									
		1	Adequate knowledge in microprocessor architectures, embedded Linux, embedded graphics (Qt).							
		2	Ability to write Qt/Qt Embedded GUI applications, network applications, digital multimedia applications.							
		3	Ability to debug, verify, emulate embedded Linux systems.							
		4	Ability to devise, select, and use modern techniques and tools needed for embedded Linux systems.							
		5	Ability to work in a team.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:		•							
	Course Content:									

Week	Theoretical		Practice						
1	EMBEDDED OR NOT? ANATOMY CEMBEDDED SYSTEM. WHY LINUX PROCESSOR BASICS. LINUX BASI	?							
2	RS232. TERMINAL EMULATORS.								
3	CROSS-DEVELOPMENT ENVIRONI NATIVE/TARGET COMPILATION, TOOLCHAINS, GDB, GDBSERVER, DVSDK.								
4	BIOS VERSUS BOOTLOADERS, U-	воот.							
5	SETTING UP NETWORK SERVICES BOOTING THE KERNEL (SD-CARD NFS/TFTP).								
6	CONFIGURING/BUILDING LINUX KI AND ROOT FILE SYSTEM.	ERNEL							
7	CONFIGURING/BUILDING LINUX K AND ROOT FILE SYSTEM.	ERNEL							
8	SETTING UP WI-FI MODULE. LOADING/UNLOADING DEVICE DR DEVICE DRIVER BASICS.	IVERS.							
9	GPIO, SYSFS, FILE SYSTEMS, FRAMEBUFFER, TOUCHSCREEN [DEVICE.							
10	EMBEDDED GRAPHICS, WINDOW ENVIRONMENT, QT/QT EMBEDDEI VIRTUAL FRAMEBUFFER, EMBEDI APPLICATION DEVELOPMENT.	D,							
Activit				Number	Duration (hour)	Total Work Load (hour)			
Theore	GSTREAMER TI PLUGIN.			14	3.00	42.00			
Practica	als/Labs	NIC		0	0.00	0.00			
Self stu	©STREFANDERaTIOPLUGIN.			14	8.00	112.00			
Homew	vorks			0	0.00	0.00			
Project Field St	Textbooks. References and/or Other tudies		IKARIM YAGHMOUR. "BUILDING EMBEDDED LINUX 0.00 0.00						
	n exams		PRIMER," PRENTICE HALL OPEN SOURCE.						
Others	A			0	0.00	0.00			
	Assesment		_	1	15.00	15.00			
	/ork Load					199.00			
Modern Exam 1 ECTS Credit of the Course				0.00		6.13 6.00			
Home v	vork-project	0	0.00						
Final E		60.00							
Total		2	100.00						
	ution of Term (Year) Learning Activities s Grade	es to	40.00						
Contrib	ution of Final Exam to Success Grade)	60.00						
Total			100.00						
Measur Course	rement and Evaluation Techniques Us	ed in the	Written exam						
24	ECTS / WORK LOAD TABLE								

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