	SYST	EM PF	ROGRAMMING								
1	Course Title:	SYSTEM	I PROGRAMMING								
2	Course Code:	BMB301	8								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	le								
5	Year of Study:	3	3								
6	Semester:	6									
7	ECTS Credits Allocated:	5.00									
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 f	ace								
14	Course Coordinator:	Doç. Dr.	Murtaza CiCiOĞLU								
15	Course Lecturers:	Dr. Ögr. Üyesi MURTAZA CİCİOĞLU									
16	Contact information of the Course Coordinator:	ceydanu	eydanur@uludag.edu.tr								
17	Website:										
18	Objective of the Course:	To strengthen the acquired theoretical knowledge on operating systems with various system programming applications					systems with various system programming applications				
19	Contribution of the Course to Professional Development:	Engineering Science: 60%, Engineering Design: 40%									
20	Learning Outcomes:										
		1	Knowing operational differences between Windows and Linux operating systems								
		2	Being able to manage processes and threads, and enable their interaction with each other								
		3									
		4									
		5									
		6									
		7									
		8									
		9									
21	Course Content:	110									
21	Course Content:										
Week	Theoretical		Practice								
1	Introduction										
2	System calls and Windows API										
3	Linux kernel										
4	Processes										
5	Threads										
6	Task scheduling										

7	Petr	Petri nets																	
8	Dea	dlock	<b>(</b>																
9	Inte	nteraction between processes and threads																	
10	Clas	Classical problems																	
11	Soc	ket p	rograr	nming															
12	Men	Memory management																	
13	File	ile systems																	
14	Disk	Disk management																	
22		Textbooks, References and/or Other Materials:								1. Avcı, M., Özyıldırım, B. M., Ülgen, O, 2019, İşletim Sistemleri ve Sistem Programlama, Karahan Kitabevi, 4th Edition, ISBN: 9786054454518.									
23	Ass	esme	ent																
TERM I	LEAR	EARNING ACTIVITIES					N R	IUMBE	WE	WEIGHT									
Midterr							1		_	10.00									
Quiz							0		0.0	00									
Home	work-	-proje	ect				6		30	30.00									
Final E	inal Exam 1							60	60.00										
Total							8		10	0.00									
	Contribution of Term (Year) Learning Activities to Success Grade								40	40.00									
	Activites														Total Work Load (hour)				
Messurement and Evaluation Techniques Used in the Course									e Pr	Programming assignments written exams 42.00									
Practicals/Labs								(	0 0				0.00			0.00			
Self stu	Self study and preperation									14 2.00				28.00					
Homeworks								6	6 7				7.00			42.00			
Project	jects								(	0 (				0.00			0.00		
Field S	Field Studies								(	0				0.00			0.00		
Midterr	idterm exams								·	1				14.00			14.00		
Others	Others								(	0			0.00	0.00			0.00		
Final E	Exams									1			18.00	18.00			18.00		
Total Work Load															158.00				
Total work load/ 30 hr									$\neg$							4.80			
ECTS Credit of the Course														5.00					
25																			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1		3	2	3	5	0	2	2	1	3	2	2	1	0	0	0	0		
ÖK2		5	4	4	5	2	5	1	1	1	0	1	0	0	0	0	0		
			<u> </u>	O: I	earr	l ina (	) Dbied	tives		Q: P	 roara	ım Qıı	l alifica	    tions	 `				
Contrib 1 very low ution Level:				earning Objectives 2 low 3 M				ium	rogram Qualifica 4 High			5 Very High							