	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								
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:	Dr. Ögr.	Üyesi CEYDA NUR ÖZTÜRK							
15	Course Lecturers:	Dr. Ögr.	Üyesi MURTAZA CİCİOĞLU							
16	Contact information of the Course Coordinator:	ceydanu	r@uludag.edu.tr							
17	Website:									
18	Objective of the Course:	To strengthen the acquired theoretical knowledge on operating 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								
24	Course Content:	10								
21	Course Content: Course Content:									
Week	Theoretical		Practice							
1	Introduction		1 1404.00							
2	System calls and Windows API									
3	Linux kernel									
4	Processes									
5	Threads									
6	Task scheduling									

7	Petr	i nets	S																
8	Dea	eadlock																	
9	Inter	nteraction between processes and threads																	
10	Clas	Classical problems																	
11	Soci	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	Asse	esme	ent																
TERM L	LEAR	EARNING ACTIVITIES					N R	IUMBE	WE	WEIGHT									
Midterr	Midterm Exam 1							_	10.00										
Quiz	Quiz 0									0.00									
Home	Home work-project 6							30	30.00										
Final E	Final Exam 1									.00									
Total							8			0.00									
	Contribution of Term (Year) Learning Activities to Success Grade								40	.00									
	Activites														tion (hour) Total Work Load (hou				
প্রিভার্মান্ত্র্রেent and Evaluation Techniques Used in the									e Pr	Programming assignments written exams 42.00									
Course Practicals/Labs								(0 0				0.00			0.00			
Self study and preperation										14 2				2.00			28.00		
Homeworks								6	6				7.00			42.00			
Project	ojects								(0				0.00			0.00		
Field S	Field Studies								(0				0.00			0.00		
Midterr	/lidterm exams								·	1			14.00	14.00			14.00		
Others	Others								(0				0.00			0.00		
Final E	Exams									1			18.00	18.00			18.00		
Total Work Load															158.00				
Total work load/ 30 hr																4.80			
ECTS Credit of the Course														5.00					
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
		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		
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			2 low 3 M				PQ: Program Qu edium 4 Higl												