COMPUTER OPERATING SYSTEMS											
1	Course Title:	COMPU	TER OPERATING SYSTEMS								
2	Course Code:	BMB3004									
3	Type of Course:	Compuls	ory								
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 Metin BİLGİN								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Tel.:+90	ır Müh. Bölüm Binası, 1. kat, oda 3 (224) 275 52 63 etinbilgin at uludag.edu.tr								
17	Website:										
18	Objective of the Course:	basic tas	ctive of this lecture is to enable the students to describe the ks of operating systems and explain the process nent and memory management services of operating in detail								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	To define the basic tasks of operating systems.								
		2	To define the basic concepts related to operating systems.								
		3	To compare processes and threads.								
		4	To compare the performances of process scheduling algorithms.								
		5	To detect and solve deadlock problems in process execution.								
		6	To explain basic memory management strategies.								
		7	To compare memory management mechanisms.								
		8	To detect the interactions between the modules of operating systems.								
		9	To make detuctions based on available information.								
		10	To analyze and solve problems.								
21	Course Content:										
		Co	urse Content:								
Week	Theoretical		Practice								
1	History of operating systems and intr to operating systems	oduction									
2	Hardware requirements of operating	systems									
3	Processes and process managemen mechanisms	t									

4	Basic process scheduling algorithms and their comparison																			
5	Interprocess communication																			
6	Memory management, real and virtual memory																			
7	Mechanisms for creating virtual memory																			
8	Paging and segmentation in memory management																			
9	I/O systems and memory hierarchy																			
10	Basic principles of the operation of I/O systems																			
11	Sequential and random access techniques																			
12	Sharing of I/O systems between user processes and virtual I/O systems																			
13		Basic file system structure for operating systems																		
14						mappir security		erns												
22	Tevth	Toythooks Potoronos and/or Other								ilhere	·h·	atz A	Galvin	PR (Sagne	G "Or	erating			
		Textbooks, References and/or Other Materials:								Silberschatz A., Galvin P. B., Gagne G., "Operating System Concepts", 8th Edition, Wiley, 2010.										
23	Assesment																			
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Midtern	n Evai						F 1		1	0.00										
	Activites							•	Num	b	er		Dura	Duration (hour)			Total Work Load (hour)			
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Field S	I Studies									0			0.00			0.00				
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Others	Others									0				0.00		0.00				
Final E	inal Exams									1				2.00		2.00				
Total V	otal Work Load																144.00			
Total w	otal work load/ 30 hr															4.80				
ECTS (CTS Credit of the Course									5.00										
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ÖK2	0)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0		
ÖK3	0)	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		

ÖK4

ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	on			2 low			3 Medium			4 High			5 Very High			