COMPUTER OPERATING SYSTEMS										
1	Course Title:	COMPU	TER OPERATING SYSTEMS							
2	Course Code:	BMB300	4							
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:	The objective of this lecture is to enable the students to describe the basic tasks of operating systems and explain the process management and memory management services of operating systems 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									
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 syst	ems a	nd mer	mory	hierarc	hy														
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	Logical						erne													
	physical I/O, sharing and security concerns																			
22	Textbooks, References and/or Other Materials:								Silberschatz A., Galvin P. B., Gagne G., "Operating System Concepts", 8th Edition, Wiley, 2010.											
23	Assesm	ent																		
TERM L	LEARNING ACTIVITIES NUMBE									WEIGHT										
Midtern	n Fxam					1		4	40.00											
Activit	Activites								Num	ber		Dura	Duration (hour) Total Work Load (hour)							
Finedife	ken					1		6	01920		3.00	3.00			42.00					
Practica	als/Labs								0			0.00			0.00					
Sentsib	ution of	de per	Albar)	Learn	ing Act	ivities	s to	4	4 0 00			0.00	0.00			0.00				
Homew	orks/								14			7.00	7.00							
Project	noution of Final Exam to Success Grade icts											0.00			0.00					
Field St	tudies								0 0.00					0.00						
Meneri	rements	nd Eva	aluatio	n Tec	hnique	s Use	ed in th	ne	1				2.00			2.00				
Others										0					0.00					
Final E	Exams									1					2.00					
Total W	l Work Load														144.00					
Total w	al work load/ 30 hr									4.80										
ECTS (Credit of	the Co	urse											:	5.00					
25			CON	TRIE	BUTIO	N O				OUT		S TO	PROC	3RAM	ME					
	PQ	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16				
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
ÖK2	0	0	0	0	0	0	0	0	0	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	
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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:	ution			2 low			3 Medium			4 High				5 Very High			