

OPERATIONAL SYSTEMS

1	Course Title:	OPERATIONAL SYSTEMS
2	Course Code:	BIL3106
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	4.00
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:	Öğr. Gör. MUSTAFA BALAY
15	Course Lecturers:	Öğr. Gör. Mustafa BALAY
16	Contact information of the Course Coordinator:	balay@uludag.edu.tr; 2755027, Eğitim Fakültesi BÖTE Bölümü No:409 BURSA
17	Website:	
18	Objective of the Course:	The aim of this course to help students learning principles and functions of operating systems, installing and operating linux operating system, comparing linux and other operating systems, learning usage of operating systems for educational purposes.
19	Contribution of the Course to Professional Development:	It is the most basic software that is indispensable for the computer system. It is a fundamental structure for the development and management of all other software.
20	Learning Outcomes:	
	1	To be able to know definition of operating system.
	2	To be able to know layers of operating system.
	3	To be able to understand relationship between operating system and process/processors.
	4	To be able to understand memory management
	5	Operating systems and be aware of differences.
	6	To work with Windows
	7	To work with Mobile Operating System
	8	To work with Linux
	9	Manage the operating system.
	10	To be able to use operating systems for educational purpose.
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction the course and to give general information about the course	
2	Introduction to operating systems	
3	Layers of operating systems	

4	Process management (Process, Semaphore and Deadlocks)	
5	Memory Management	
6	File System	
7	Linux operating system and investigating of its distributions	
8	Mobile operating systems review	
9	Linux setup and commands (Continue)	
10	Linux interfaces	
11	Linux system management	
12	Comparison of other operating systems	
13	Comparison of other operating systems	
14	Operating systems for educational use	

22	Textbooks, References and/or Other Materials:	1. https://support.microsoft.com/tr-tr/windows?ui=tr-TR&rs=tr-TR&ad=TR
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Quiz	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Total	1	100.00	
Theoretical	14	3.00	42.00
Contribution of Term (Year) Learning Activities to	40.00		
Practicals/Labs	0	0.00	0.00
Self study and preparation	14	2.00	28.00
Contribution of Final Exam to Success Grade	60.00		
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Measurement and Evaluation Techniques Used in the	Multiple choice testing, relative evaluation system		
Field Studies	0	0.00	0.00

Midterm exams	1	25.00	25.00
24 ECTS/ WORK LOAD TABLE			
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	1	1	1	1	1	1	1	1	1	1	5	1	1	1	2
ÖK2	1	3	1	1	1	1	1	1	1	1	1	1	2	1	1	1
ÖK3	1	1	1	3	1	1	1	2	1	1	1	3	1	1	1	1
ÖK4	1	1	1	1	1	1	1	2	1	1	1	3	1	1	1	1

ÖK5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK6	1	1	1	1	1	1	1	3	1	1	1	2	1	1	1	3
ÖK7	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ÖK9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
ÖK10	1	2	2	1	1	1	1	3	1	1	1	1	1	1	3	1
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			