OPERATING SYSTEMS

Title of Study Programme and Code		Type (compulsory/optional)	Cycle	Year of study when the
				component is
				applicable)
Information Systems		Compulsory	1 st	2 nd year
Engineering 6531EX043				
Semester/trimester		Number of ECTS	Language of	Mode of delivery
when the component is		credits allocated	instruction	(face-to-face/e-
		3 FCTS	English	face-to-face
	4	J Lets	Linglish	Tace-to-tace
Learning o		utcomes	Study methods	Assessment
				methods
After completion of the study subject, a student		udy subject, a student	Lectures;	Writen Exam;
should	be able to: Explanation of		Explanation of	Tests;
101	Know the comput	ter processes, purpose	concepts;	Defence of
	onerating system	s functions	solved.	homework
LO 2	Gather. systemat	ize and analyze	Individual solution of	
	information abou	t the organization's	problems;	
	information techr	nology.	Group tasks.	
LO 3	Provide offers on	effective use of		
	information technology.			
LO 4	Know the require	ments of the software,		
	select, install and	implement user-driven		
105	Install and adjust	the user system and		
	application software.			
LO 6	Identify risks of operating system security			
	and their vulnera	bilities and apply		
	security and vulne	erability prevention		
	measures.			
	Understand comp	outer systems resource		
10.8	Understand and a	apply protection of		
	information resou	urces.		
LO 9	Recognize and ad	dress emerging		
	computer networ	k software problems.		
LO 10	To set network se	ettings on various		
	operating system			
10 11	Able in computer systems and their			
10.12	Adapt the system	and application		
	software accordir	ig to specific		
	requirements.	<u> </u>		

Prerequisites					
(these courses must be sucessfully completed prior to taking this particular course)					
Courses of Informatics					
Course content					
1. Review of operating systems.					
2. Multicomputer, multiprocessor and real-time systems.					
3. Processes.					
4. Memory management.					
5. Input and output system.					
6. File systems.					
7. Installing of operating systems.					
8. Registering users.					
Development network of operating system.					
10. Security of operating systems. Anti-attack mode. Safety assessment standards.					
11. Modernization of operating systems.					
Recommended or required reading and other learning resources/tools					
1. Tanenbaum Andrew S. (2007). Distributed Operating Systems (p.1 – 34, 169 – 245) Prentice-					
Hall.					
2. Tanenbaum Andrew S. (2002). Modern Operating Systems (p. 22 – 44, 97 – 106, 217 – 235,					
642 - 728) Prentice-Hall.					
3. Operating systems, their management and a variety. Available at:					

http://sistemos.puslapiai.lt