		STUDY MODULE D	ESCRIPTION FORM			
Name of the module/subject Network Operating Systems			Code 1011105211011160851			
Field of		,	Profile of study	Year /Semester		
Corporate Management - Part-time studies -			(general academic, practical (brak)	^{I)} 1 / 1		
Elective	path/specialty		Subject offered in:	Course (compulsory, elective)		
		orate Management	Polish	elective		
Cycle of study: Form of study (full-time,part-time)						
Second-cycle studies			part-time			
No. of h				No. of credits		
Lectur	0100000		Project/seminars:	- 2		
Status c	of the course in the study	field)				
		(brak)				
Education	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
socia	I sciences			2 100%		
00010				2 10070		
Responsible for subject / lecturer: Responsible for subject / lecturer:						
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	(+4861)6653388		tel. (+4861) 665 33 87			
	ulty of Engineering Ma elecka Str. 11, 60-965		Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			
Prere	quisites in term	s of knowledge, skills and	a social competencies	•		
1	Knowledge	First cycle study courses on computer science and information technology.				
•						
2	Skills	Experience in runnuing applications and file management in MS Windows.				
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3	Social	Interest in understanding compu	Interest in understanding computer technologies.			
	competencies					
		ectives of the course:				
should	know the main challe	s to give understanding of operation nges in operating systems design of the Internet and mobile compution	and the ideas behind solution	s. The emphasis is on network		
archite		mes and reference to the	<u> </u>			
Know	/ledge:			·····		
	0	the structure and the main tasks	of operating systems layers ar	nd tools - [K2A W08]		
		the evolution of operating systems				
[K2A_V		th typical elements of user interfac	ces tools and cofiguration task	ks in operating systems		
[K2A_V		in typical elements of user intenat		ks in operating systems		
 Students should have some understending how Application Programmers Interfaces (API-s) facilitate software developmen and how this is related to operating systems. [K2A_W17] 						
Skills	•					
		do typical network configuration ta	asks in Windows and Linux op	erating systems [K2A U06]		
 Student should be able to do typical network configuration tasks in Windows and Linux operating systems [K2A_U06] They should plan and set users accounts and access rights and formulate security policy [K2A_U06] 						
3. They should be able to prepare examples of programs that work in different operating environments [K2A_U06]						
Social competencies:						
	lents should be aware (05 K2A_K06]	of responsible use and configurat	ion of file systems and other o	computer systems resources		

Assessment methods of study outcomes

Forming rating:						
- exercises - assessment of laboratory exercises						
Summary rating:						
- exercises - the average of partial grades						
- lecture - exam						
Course description						
-Lectures:						
The layers and tasks of operating systems. Short explanation of terms: process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), file system. The network architecture of Windows and Unix/Linux. The Application Programmers Interface for network operation - simple examples. Graphical User Interfaces and the impact of the Internet and Web Applications. Virtual computing environment and cloud computing.						
-Laboratories:						
Depending on students experience laboratory exercises provide more or less advanced illustrative material to lecture subjects. This may include: configuring Windows and Linux users access rights, FTP and HTTP servers, simple shell scripting.						
Teaching methods:						
- information lecture						
- Works with a book						
- The case method						
- workshop method						
Basic bibliography:						
1. A. Silberschatz, P. B. Galvin, Operating Systems						
2. W. Stallings, Introduction to Operating Systems						
Additional bibliography:						
1. Web pages on virtual and cloud computing						
Result of average student's workload						
Activity		Time (working hours)				
1. Participation in lectures		12				
2. Literature studying	20					
3. Consultation	10					
4. Preparation for the exam	5					
5. Exam		2				
Student's workload						
Source of workload	hours	ECTS				
Total workload	49	2				
Contact hours	24	1				

Practical activities

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