		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject	Systems	Code 1011102211011100851			
Field of study Corporate Management - Full-time studies -			Profile of study (general academic, practica (brak)	al) Year /Semester 1 / 1		
Elective path/specialty			Subject offered in:	Course (compulsory, elective)		
Corporate Management			Polish	elective		
Cycle of	f study:		Form of study (full-time,part-time)			
	Second-o	cycle studies	full-time			
No. of hours				No. of credits		
Lectur	re: 15 Classe	es: 15 Laboratory: -	Project/seminars:	- 2		
Status o	of the course in the stud	y program (Basic, major, other)	(university-wide, from another field)			
Eduard	on areas and fields of so	(brak)	(brak)			
Educati	on areas and neids of so	cience and art		ECTS distribution (number and %)		
Resp	onsible for sub	ject / lecturer:	Responsible for subj	ect / lecturer:		
dr Ryszard Danecki email: Ryszard.Danecki@put.poznan.pl tel. (+4861)6653388 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			dr inż. Zbigniew Włodarczak email: Zbigniew.Wlodarczak@put.poznan.pl tel. (+4861) 665 33 87 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			
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Prere	quisites in terr	ns of knowledge, skills an	la social competencies	5.		
1	Knowledge	First cycle study courses on cor	rst cycle study courses on computer science and information technology.			
2	Skills	Experience in runnuing applicat	ions and file management in MS Windows.			
3	Social competencies	0 1	Interest in understanding computer technologies.			
Assu	mptions and ob	jectives of the course:				
should	know the main chall	is to give understanding of operat enges in operating systems design of the Internet and mobile comput	and the ideas behind solutior	ns. The emphasis is on network		
		omes and reference to the				
Knov	vledge:					
2. Stuc	lents should describe	w the structure and the main tasks the evolution of operating system				
[K2A_\ 3. The [K2A_\	y should be familiar v	vith typical elements of user interfa	ces, tools and cofiguration tas	ks in operating systems		
4. Stuc	lents should have so	me understending how Application perating systems [K2A_W17]	Programmers Interfaces (API	I-s) facilitate software developmen		
Skills	5:					
		o do typical network configuration t		•••••••		
2. 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:						
1. Students should be aware of responsible use and configuration of file systems and other computer systems resources [K2A_K05 K2A_K06]						
		Assessment metho	ds 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	15					
2. Participation in classes	15					
3. Preparation for the classes	15					
4. Preparation for the exam	5					
5. Exam	2					
Student's workload						
Source of workload	hours	ECTS				
Total workload	52	2				

Contact hours

Practical activities

32

15

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