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Social competencies:

[K2A\_K05 K2A\_K06]

		STUDY MODULE D	ESCRIPTION FORM			
	of the module/subject	Systems		Co.	de 11102211011160851	
Field of		•	Profile of study		Year /Semester	
Corr	oorate Managem	ent - Full-time studies -	(general academic, practical) (brak)	)	1/1	
	path/specialty		Subject offered in:		Course (compulsory, elective)	
Corporate Management			Polish		elective	
Cycle o	f study:		Form of study (full-time,part-time)			
Second-cycle studies			full-time			
No. of h					No. of credits	
Lectu	0.000		Project/seminars:	-	2	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another t	field) <b>(br</b> :		
Educati	on areas and fields of so	· /		וטו	ECTS distribution (number	
		ionio ana an			and %)	
socia	al sciences			2 100%		
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct /	lecturer:	
_	Ryszard Danecki		dr inż. Zbigniew Włodarcza			
	ail: Ryszard.Danecki@	put.poznan.pl	email: Zbigniew.Wlodarczak@put.poznan.pl			
	(+4861)6653388		tel. (+4861) 665 33 87			
	ulty of Engineering M zelecka Str. 11, 60-96	•	Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			
	,	ns of knowledge, skills an	•			
1	Knowledge	First cycle study courses on con	mputer science and information technology.			
2	Skills	Experience in runnuing applicati	tions and file management in MS Windows.			
3	Social	Interest in understanding computer technologies.				
٨٥٥١	competencies	inatives of the course.				
	-	jectives of the course: is to give understanding of operati	ing evetame as the most advan	cod	computer software. Students	
should	know the main challe	enges in operating systems design of the Internet and mobile computing	and the ideas behind solutions	. Th	ne emphasis is on network	
	Study outco	mes and reference to the	educational results for	af	field of study	
Knov	vledge:					
1. The	students should know	v the structure and the main tasks	of operating systems layers an	d to	ols [K2A_W08]	
2. Stud [K2A_\		the evolution of operating systems	s and the influence of the devel	lopm	nent of computer networks.	
3. The [K2A_\)	•	rith typical elements of user interfa	ces, tools and cofiguration task	s in	operating systems	
		me understending how Application erating systems [K2A_W17]	Programmers Interfaces (API-	s) fa	cilitate software developmer	
Skills		Stating Systems [INZA_VV 17]				
		do typical network configuration to	asks in Windows and Linux ope	eratii	ng systems [K2A_U06]	
		users accounts and access rights				

# Assessment methods of study outcomes

1. Students should be aware of responsible use and configuration of file systems and other computer systems resources. -

3. They should be able to prepare examples of programs that work in different operating environments. - [K2A\_U06]

# Faculty of Engineering Management

#### 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	32	1
Practical activities	15	1