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		STUDY MODULE D	ESCRIPTION FORM			
	of the module/subject	`		Code		
Network Operating Systems			Profile of study	1011105211011100851 Year /Semester		
Field of study			(general academic, practical)			
Engineering Management - Part-time studies -				1/1		
Electiv	ve path/specialty Marketing a	and Company Resources	Subject offered in: Polish	Course (compulsory, elective) elective		
Cycle of study:			Form of study (full-time,part-time)	1		
Second-cycle studies			part-time			
No. of	hours			No. of credits		
Lecti	ure: 12 Classe	s: Laboratory:	Project/seminars:	- 2		
Status	-	program (Basic, major, other)	(university-wide, from another field)			
		(brak)	(brak)			
Educa	ition areas and fields of sc	ience and art		ECTS distribution (number and %)		
Res	ponsible for subj	ect / lecturer:	Responsible for subjec	t / lecturer:		
dr	Ryszard Danecki		dr inż. Zbigniew Włodarczał			
	nail: Ryszard.Danecki@	put.poznan.pl	email: Zbigniew.Wlodarczak	@put.poznan.pl		
	. (+4861)6653388 culty of Engineering M	anagement	tel. (+4861) 665 33 87 Faculty of Engineering Management			
	rzelecka Str. 11, 60-96		Strzelecka Str. 11, 60-965 F			
Prer	equisites in term	ns of knowledge, skills an	d social competencies:			
1	Knowledge	First cycle study courses on com	omputer science and information technology.			
2	Skills	Experience in runnuing applicati	g applications and file management in MS Windows.			
3	Social	Interest in understanding computer technologies.				
	competencies	institute of the course				
-The shoul	purpose of this course d know the main challe tecture and the impact	jectives of the course: is to give understanding of operation on the Internet and mobile compution	and the ideas behind solutions. ng on operating systems design	The emphasis is on network .		
		mes and reference to the	educational results for	a field of study		
	wledge:					
		v the structure and the main tasks		• – •		
	_W09]	the evolution of operating systems	s and the influence of the develo	pment of computer networks.		
	ey should be familiar w _W08]	ith typical elements of user interfac	ces, tools and cofiguration tasks	in operating systems		
		ne understending how Application erating systems [K2A_W17]	Programmers Interfaces (API-s)) facilitate software developme		
Skill		1				
1. Stu	udent should be able to	do typical network configuration ta	asks in Windows and Linux oper	ating systems [K2A_U06]		
2. They should plan and set users accounts and access rights and formulate security policy [K2A_U06]						
_		epare examples of programs that	work in different operating environ	onments [K2A_U06]		
	ial competencies					
	udents should be aware _K05 K2A_K06]	e of responsible use and configurat	tion of file systems and other co	mputer systems resources		

Assessment methods of study outcomes

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	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	0	0