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Name of the module/subject Network Operating Systems				Code 1011102211011160851		
Field of			Profile of study (general academic, pract	Year /Semester		
Engineering Management - Full-time studies -				1/1		
Elective path/specialty Quality Systems and Ergonomics			Subject offered in: Polish	Course (compulsory, elective) elective		
Cycle of			Form of study (full-time,part-ti	ime)		
Second-cycle studies			full-time			
No. of hours				No. of credits		
Lecture: 15 Classes: 15 Laboratory: -			Project/seminars:	- 2		
Status o	•	program (Basic, major, other) (brak)	(university-wide, from anot	ther field) (brak)		
Education	on areas and fields of sci	ence and art		ECTS distribution (number		
social sciences				and %) 2 100%		
Resp	onsible for subje	ect / lecturer:	Responsible for sub	bject / 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			
Prere	quisites in term	s of knowledge, skills an				
1	Knowledge	First cycle study courses on computer science and information technology.				
2	Skills	Experience in runnuing application	in runnuing applications and file management in MS Windows.			
3	Social competencies	Interest in understanding compu	iter technologies.			
Assu	mptions and obj	ectives of the course:				
should	know the main challer		and the ideas behind solut	vanced computer software. Students ions. The emphasis is on network esign.		
	Study outco	mes and reference to the	educational results	for a field of study		
Know	/ledge:					
		the structure and the main tasks				
[K2A_\	W09]			evelopment of computer networks		
3. They [K2A_\		th typical elements of user interfa	ces, tools and cofiguration t	tasks in operating systems		
and ho	w this is related to ope	ne understending how Application erating systems [K2A_W17]	Programmers Interfaces (A	API-s) facilitate software developmen		
Skills						
		do typical network configuration to				
 They should plan and set users accounts and access rights and formulate security policy [K2A_U06] They should be able to prepare examples of programs that work in different operating environments [K2A_U06] 						
	al competencies:		work in unicidit operating t	STIVITOTITIETIES [NZA_000]		
1. Stuc	<u> </u>		tion of file systems and other	er computer systems resources		

STUDY MODULE DESCRIPTION FORM

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