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		STUDY MODULE DI	ES	CRIPTION FORM		
Name of the module/subject Network Operating Systems				Code 1011102311011000851		
Field of s	study			Profile of study		Year /Semester
Engineering Management - Full-time studies -				(general academic, practical) (brak)		1/1
Elective path/specialty				Subject offered in:		Course (compulsory, elective
	Production an	d Operations Managemen	nt	Polish		elective
Cycle of	study:		For	m of study (full-time,part-time)		
Second-cycle studies				full-time		
No. of ho	ours					No. of credits
Lecture	e: 15 Classe:	s: 15 Laboratory: -		Project/seminars:	-	2
Status of	the course in the study	program (Basic, major, other)	(university-wide, from another fi	ield)	
(brak)				(brak)		
Educatio	n areas and fields of sci	ence and art				ECTS distribution (number and %)
Respo	onsible for subj	ect / lecturer:	Re	sponsible for subjec	:t /	lecturer:
	szard Danecki		dr inż. Zbigniew Włodarczak			
email: Ryszard.Danecki@put.poznan.pl tel. (+4861)6653388				email: Zbigniew.Wlodarczak@put.poznan.pl tel. (+4861) 665 33 87		
Faculty of Engineering Management				Faculty of Engineering Management		
	elecka Str. 11, 60-965	•		Strzelecka Str. 11, 60-965 Poznań		
Prere	quisites in term	s of knowledge, skills and	d s	ocial 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.				
3	Social competencies	Interest in understanding computer technologies.				
Assur	mptions and ob	ectives of the course:				
-The pu	rpose of this course	is to give understanding of operations in operations in operating systems design				

architecture and the impact of the Internet and mobile computing on operating systems design.

Study outcomes and reference to the educational results for a field of study

Knowledge:

- 1. The students should know the structure and the main tasks of operating systems layers and tools. [K2A_W08]
- 2. Students should describe the evolution of operating systems and the influence of the development of computer networks. [K2A_W09]
- 3. They should be familiar with typical elements of user interfaces, tools and cofiguration tasks in operating systems. -[K2A_W08]
- 4. Students should have some understending how Application Programmers Interfaces (API-s) facilitate software development and how this is related to operating systems. - [K2A_W17]

- 1. Student should be able to do typical network configuration tasks in Windows and Linux operating systems. [K2A_U06]
- 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 methods of study outcomes

Faculty of Engineering Management

-Practical tests in laboratories.

Presentations on key topics.

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.

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Attendance and active participation in laboratory exercises	15
3. Preparation for the final credits	15
4. Home assignments	5

Student's workload

Source of workload	hours	ECTS
Total workload	50	2
Contact hours	30	1
Practical activities	15	1