		STUDY MODULE D	ESCRIPTION FORM	Λ	
	f the module/subject	ent	Code 1010331461010337133		
Field of study			Profile of study (general academic, pract		
Computer Science			(brak)	3/6	
Elective path/specialty Information Technologies			Subject offered in: polish	Course (compulsory, elective) obligatory	
Cycle of study:			Form of study (full-time,part-tir		
	First-cyc	cle studies	full-time		
No. of hours				No. of credits	
Lecture: 1 Classes: - Laboratory: 1			Project/seminars:	- 3	
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another field)		
		(brak)	(brak)		
Education areas and fields of science and art				ECTS distribution (number and %)	
techr	nical sciences			3 100%	
dr ir ema	n onsible for subj e nž. Tomasz Bilski ail: tomasz.bilski@put. 061 66 53 554				
Fac	ulty of Electrical Engir Piotrowo 3A 60-965 Po	-			
Prere	equisites in term	s of knowledge, skills an	d social competencie	es:	
1	Knowledge	K_W07: Student has organized knowledge with theoretical foundations of computer networks. K_W13: Student has organized knowledge with theoretical foundations of data protection and IT system security.			
2	Skills	K_W18: Student knows common IT engineering technology. K_U04: Student is able to prepare and to demonstrate short presentation of engineering task results.			
-		K_U05: Student is able to self learning in order to increase professional skills.			
		K_U11: potrafi dokonać krytycznej analizy sposobu funkcjonowania sprzętu komputerowego, systemu operacyjnego (lub ich fragmentów) i sieci komputerowych			
3	Social competencies	K_K02: Student understands and is aware of the importance of nontechnical issues related to computer engineer activity. Student understands the responsibility associated to his engineering decisions.			
		K_K05: Student is able to think a	and work in enterprising way	у.	
		ectives of the course:			
Studer issues	nts should obtain theor as: data security, ope	etical knowledge and experience rational environment heterogeneit	in IT system management v y.	with special emphasis on such	
	Study outco	mes and reference to the	educational results	for a field of study	
Knov	vledge:				
		owledge with theoretical foundation			
	-	owledge with theoretical foundatio	•	system security [K_W13]	
Skills		dge of IT system management [K_VV14j		
1. Stud	lent is able to work ald	one and in a group; student can as ary to keep up deadlines [K_U		a given work; student can develop	
	lent is able to do critic	al analysis of computer hardware	•	m and computer networks	
	al competencies:				
1. Stud	lent understands and		technical issues related to c ecisions [K_K02]	omputer engineer activity. Student	
		d work in inventive way [K K05]			

Assessment methods of study outcomes

Lecture ? test.

Project - project assessment.

Course description

Lecture. Functions, duties and tasks of network manager. Elements of the management process: hardware configuration, access control system, user account management, monitoring, optimization, time management, security violations, system documentation, contingency plan, resource planning, personnel management, cooperation with service providers, system development. Basic tools and protocols for network management (e.g. SNMP, DHCP, NTP, DNS, syslog). Information security policy.

Laboratory. DHCP server configuration. DNS server configuration. Computer networks management with SNMP and other tools. Access control system. User and admin accounts management.

Basic bibliography:

1. Tanenbaum A., Computer Networks,

2. Limoncelli T., Time Management for System Administrators, O'Reilly, 2006

Additional bibliography:

1. Comer D., Computer Networks and Internets

Result of average stud	dent's workload	
Activity	Time (working hours)	
1. Lectures		8
2. Projects		8
3. Test preparation	15	
4. Theoretical preparation for projects	5	
5. Practical preparation for projects	42	
6. Test		2
7. Consultations		7
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	87	3
Contact hours	25	1
Practical activities	50	2