		STUDY MODULE DE	SCRIPTION FORM	
	f the module/subject oitation of comp	uter networks	Code 1010334581010331474	
Field of study Information Engineering			Profile of study (general academic, practica (brak)	al) Year /Semester 4 / 8
Elective path/specialty			Subject offered in:	Course (compulsory, elective)
Security of Information Technology (IT)			Polish	obligatory
Cycle of	f study:	1	Form of study (full-time,part-time	e)
	t-time			
No. of h	ours	· ·		No. of credits
Lectur	re: 8 Classes	s: - Laboratory: 8	Project/seminars:	- 3
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another	,
		(brak)		(brak)
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)
technical sciences				3 100%
ema tel. Fac ul. F	nž. Tomasz Bilski ail: tomasz.bilski@put. 061 66 53 554 ulty of Electrical Engir Piotrowo 3A 60-965 Po equisites in term	eering	social competencies	
Field		s of knowledge, skills and	social competencies	
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.		
		K_W18: Student knows common IT engineering technology.		
2	Skills K_U04: Student is able to prepare and to demonstrate short presentation of engineering results.			presentation of engineering task
		K_U05: Student is able to self lea	rning in order to increase pro	ofessional skills.
		K_U11: potrafi dokonać krytyczne systemu operacyjnego (lub ich fra		
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 ar	nd work in enterprising way.	
		ectives of the course:		
Studer such is	nts should obtain theor sues as: data security	etical knowledge and experience in v, operational environment heteroge	n computer networks manage eneity.	ement with special emphasis on
	Study outco	mes and reference to the e	educational results fo	or a field of study
Knov	vledge:			
	-	owledge with theoretical foundation		
	-	owledge with theoretical foundations		ystem security [K_W13]
		dge of IT system management [K	_W14]	
	lent is able to work ald	one and in a group; student can ass		given work; student can develop
	lent is able to do critic	ary to keep up deadlines [K_U0; al analysis of computer hardware o	-	and computer networks
	al competencies:			
1. Stuc	lent understands and	is aware of the importance of nonte y associated to his engineering dec		nputer engineer activity. Student
0.00				

2. Student is able to think and work in inventive way. - [K_K05]

Assessment methods of study outcomes

Lecture ? test.		
Laboratory ? exercises.		
Course descr	iption	
Lecture. Functions, duties and tasks of network manager. Elements access control system, user account management, monitoring, optin documentation, contingency plan, resource planning, personnel mar development. Basic tools and protocols for network management (e. security policy.	nization, time management, sec nagement, cooperation with serv g. SNMP, DHCP, NTP, DNS, sy	urity violations, system rice providers, system /slog). Information
Laboratory. DHCP server configuration. DNS server configuration. C tools. Access control system. User and admin accounts management	Computer networks managemen nt.	t with SNMP and other
Basic bibliography:		
1. Tanenbaum A., Computer Networks		
Additional bibliography:		
1. Comer D., Computer Networks and Internets		
Result of average stud	lent's workload	
Activity		Time (working hours)
1. Lectures		8
2. Laboratory	8	
3. Exam preparation		15
4. Theoretical preparation for laboratory	5	
5. Practical preparation for laboratory	42	
6. Exam	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