		STUDY MODULE DE	SCRIPTION FORM		
	f the module/subject oitation of comp	uter networks		^{Code} 1010331561010331474	
Field of		ring	Profile of study (general academic, practical)	Year /Semester	
Information Engineering Elective path/specialty			(brak) Subject offered in:	3 / 6 Course (compulsory, elective)	
LICCUV		formation Technology (IT)	Polish	obligatory	
Cycle o			Form of study (full-time,part-time)		
	First-cyc	cle studies	full-ti	ime	
No. of h	iours			No. of credits	
Lectu	re: 15 Classes	s: - Laboratory: 15	Project/seminars:	- 3	
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another fie	eld)	
		(brak)		brak)	
Education areas and fields of science and art				ECTS distribution (number and %)	
techi	nical sciences			3 100%	
dr in ema tel. Fac	onsible for subje nž. Tomasz Bilski ail: tomasz.bilski@put. 061 66 53 554 sulty of Electrical Engir Piotrowo 3A 60-965 Po	poznan.pl neering			
		s of knowledge, skills and	social competencies:		
		K_W07: Student has organized kr	nowledge with theoretical found	dations of computer networks	
1	Knowledge	K_W13: Student has organized kr IT system security. K_W18: Student knows common I	nowledge with theoretical found		
2	Skills	K_U04: Student is able to prepare results.	· · · · · · · · · · · · · · · · · · ·	sentation of engineering task	
		K_U05: Student is able to self learning in order to increase professional skills.			
		K_U11: potrafi dokonać krytyczne systemu operacyjnego (lub ich fra			
3	Social competencies	K_K02: Student understands and computer engineer activity. Studer engineering decisions.			
		K_K05: Student is able to think an	d work in enterprising way.		
		ectives of the course:			
		retical knowledge and experience in v, operational environment heteroge		ent with special emphasis on	
Know	Study outco vledge:	mes and reference to the e	ducational results for	a field of study	
	v	owledge with theoretical foundations	s of computer networks - IK M	/071	
	-	owledge with theoretical foundations			
	-	dge of IT system management [K_			
Skills	6:				
		one and in a group; student can ass ary to keep up deadlines [K_U02		en work; student can develop	
2. Stuo [K_U1		al analysis of computer hardware or	perations, operating system an	d computer networks	
Socia	al competencies:				
		is aware of the importance of nonter y associated to his engineering dec		uter engineer activity. Student	
2. Stud	dent is able to think an	d 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 of the ma control system, user account management, monitoring, optimization, documentation, contingency plan, resource planning, personnel man development. Basic tools and protocols for network management (e.g security policy.	time management, security vio agement, cooperation with serv g. SNMP, DHCP, NTP, DNS, sy	lations, system ice providers, system
Course update 2017: new models of networks (NFV, SDN), Internet	of Things.	
Teaching methods:		
 lecture with multimedia presentations, 		
- additional topics available in Moodle course.		
Laboratory DHCP server configuration. DNS server configuration. Computer net control system. User and admin accounts management.	works management with SNMP	and other tools. Access
Basic bibliography:		
1. Tanenbaum A., Computer Networks		
Tranchibadin A., Computer Networks		
Additional bibliography:		
 Comer D., Computer Networks and Internets T. Bilski, Data Security in Emerging Wireless Technologies, Inform Architecture and Aplications, Szklarska Poręba 2013. T. Bilski, Analiza ruchu na podstawie wielkości pakietów IP, Studia Politechniki Śląskiej, Gliwice 2011, s. 167-176. 	a Informatica, Vol. 32, Number 3	
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