		STUDY MODULE D	ESC	RIPTION FORM			
	of the module/subject	nt in information systems		Code 1010331471010334974			
Field of				Profile of study general academic, practical)	Year /Semester	
Information Engineering Elective path/specialty				(brak) Subject offered in:		4 / 7 Course (compulsory, elective)	
Elective		f Computer Systems	`	polish		obligatory	
Cycle o	•		Form	of study (full-time,part-time)		0 /	
First-cycle studies				full-time			
No. of hours					No. of credits		
Lecture: 2 Classes: - Laboratory: - Project/seminars: 1				1	5		
Status of the course in the study program (Basic, major, other) (university-wide, from another field					field)		
		(brak)			(bra	ak)	
Educati	on areas and fields of sci				ECTS distribution (number and %)		
techr	nical sciences				75 100%		
dr ir ema tel. Wye	61-665 35 31 dział Elektryczny	a-Czuryło a-czurylo@put.poznan.pl					
-	Piotrowo 3A 60-965 Po equisites in term	oznan Is of knowledge, skills an	nd so	cial competencies:			
	-	K_W01:Has basic knowledge in	n the ar	ea of mathematics cover	ring a	algebra, analysis, logic,	
1	Knowledge	K_W15:Has structured knowled	screet and applied mathematics. Ige based on a theoretical foundation in the area of				
2	Skills	 teleinformatics, protocols and services in telecommunication networks. K_U01: Is able to search for information in literature, databases and other sources; is able to integrate acquired information, interpret it, draw conclusions and formulate and argument opinions. K_U02: Is able to work alone or in a team; is able to estimate the time needed to complete the assigned project; is able to develop and carry out a schedule ensuring that deadlines are met. 					
3	Social competencies	K_K02: Is aware of the importan	nce and understands non-technical aspects and effects of formance and associated responsibility for the decisions taken				
Assu		ectives of the course:					
As par compa	t of the course student	ts will be familiarized with teleinfor isk analysis and proposing suitabl					
	Study outco	mes and reference to the	edu	cational results for	r a f	ield of study	
Knov	vledge:						
1. Has securit	0	based on a theoretical foundation	n in the	e area of data protection	and	information systems	
		administering IT systems - [-]					
Skills	6:						
		e data protection methods and en entation on engineering task realize		•	•		
realize	d task [-]						
1. Is a		: e and understands non-technical a / for the decisions taken [-]	aspect	s and effects of compute	r scie	ence engineer performance	
		Assessment metho	ods of	study outcomes			

Written or/and oral examination based on lecture,

Course description

Threats classification of network, cryptographic and operational threats. Risk analysis and management. Defining and discussing methods of reachning and maintaining a complex level of confidentiality, integrity, accessibility, accountability, authenticity and relibility, based on norms and project guidelines, and operation of such systems. Designing integrated security management systems based on the knowledge of preceding courses on protection mechanisms. During the course students will design components of security management system.

Basic bibliography:

- 1. 1. Bezpieczeństwo informacji i usług w nowoczesnej instytucji i firmie, Białas A., WNT, Warszawa 2006
- 2. 2. Teoria bezpieczeństwa systemów komputerowych, Pieprzyk J., Hardjono T., Seberry J., Helion, 2003

Additional bibliography:

1. 11. Firewalle i bezpieczeństwo w sieci (Firewalls and Internet Security), Chestwick W. R. , Bellovin S.M. , Rubin A.D., Helion, Gliwice, 2003

Result of average student's workload						
Activity	Time (working hours)					
Student's workload						
Source of workload	hours	ECTS				
Total workload	115	5				
Contact hours	35	1				
Practical activities	40	2				