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STUDY MODULE DESCRIPTION FORM Name of the module/subject Code							
_	puter Network			1010401131010330543			
Field of	•		Profile of study	Year /Semester			
EDUCATION IN TECHNOLOGY AND			(general academic, practical) general academic				
		INOLOGI AND	Subject offered in:	Course (compulsory, elective)			
Elective path/specialty			Polish	obligatory			
Cycle of	study:		Form of study (full-time,part-time)				
	First-cyc	cle studies	full-	time			
No. of h	ours		-	No. of credits			
Lectur	e: 2 Classes	s: - Laboratory: 1	Project/seminars:	- 4			
Status o	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)			
		other	unive	ersity-wide			
Education	on areas and fields of sci	ence and art		ECTS distribution (number			
				and %)			
techr	ical sciences			4 100%			
	Technical scie	ences		4 100%			
Responsible for subject / lecturer: dr inż. Andrzej Sikorski email: andrzej.sikorski tel. 6653958 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań Prerequisites in terms of knowledge, skills and social competencies:							
1 1616	quisites in term		a social competencies.	•			
1	Knowledge	Electromagnetic waves properties, physical signalling Computer Science basics, including operating systems Basic knowledge of electronics programming skills in any language (e.g. C,C#, java or Pascal) proficiency in basic engineer computation basics of algorithms and data structures					
2	Skills						
3	Social competencies	ability of knwoledge acquisition					
		team work					
A	•	data privacy awareness					
		ectives of the course:					
	edge and skills:	(100 00) as a dat)					
	•	tworks (ISO-OSI model)					
	ties of various transm	⊩+/C# both socket and componen	t basad				
		mming on HTTP protocol level,ind					
	k management tools	Timing on Time process love, in	ordanig TTTWE gonordation				
*properties and configuration of various network devices							
		mes and reference to the	educational results for	a field of study			
Knowledge:							
		- [K_W15]					
I. ISO OSI reference model - [K_W15] UNIX operating system - [K_W14]							
C#/C++ programming languages and network intefaces - [K_W14]							
4. TCP/IP concepts - [K_W15]							
Skills:							
1. TCP/IP networks administration - [K_U17]							
		ion and setup - [K_U17]					
	_	amming and deployment - [K_U11	1]				
	I competencies:						

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Assessment methods of study outcomes

examination

laboratory reports

programming project

tests and colloquium

Course description

The main emphasis of the course is on practical skills. The course includes knowledge of

basic properties, theory, and technology of computer networks.

The description of ISO -OSI reference model layers is given, including physical, link, network, transport and application layer. This model is presented in the TCP/IP and Internet context. The presentation concentrates on the practical impact of the model on the system and application software.

The focus is on practical programming and network management/configuration.

The practical skills include:

- -host and guest configuration on VM manager (VPC or Virtual Box)
- -network interfaces configuration
- -network application programming (socket, TCP/IP level)
- -internet application programming (HTTP, CSS3, HTML5)

Basic bibliography:

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Lecture	30
2. Laboratory	15
3. Textbook study	15
4. Knowledge acquisition from various sources inccluding internet	15
5. Programming and software devlopment	10
6. VM and network configuration	5

Student's workload

Source of workload	hours	ECTS		
Total workload	90	4		
Contact hours	45	2		
Practical activities	30	2		