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Social competencies:

		STUDY MODULE DI	ESCRIPTION FORM			
Name of the module/subject Internet Technologies and Services			Code 1011102311011165283			
Field of study			Profile of study (general academic, practical)	Year /Semester		
		ment - Full-time studies -	(brak)	1/1		
Elective path/specialty Enterprise Management			Subject offered in: Polish	Course (compulsory, elective) elective		
Cycle o	of study:		Form of study (full-time,part-time)	Form of study (full-time,part-time)		
Second-cycle studies			full-time			
No. of h				No. of credits		
Lectu	0.0000		Project/seminars:	- 2		
Status	•	program (Basic, major, other)	(university-wide, from another fi	_ '		
		(brak)		(brak)		
Educati	ion areas and fields of sci	ence and art		ECTS distribution (number and %)		
techi	nical sciences			2 100%		
				2 10070		
Resp	onsible for subje	ect / lecturer:	Responsible for subject	et / lecturer:		
-	Ryszard Danecki		dr inż. Zbigniew Włodarcza			
	ail: Ryszard.Danecki@	put.poznan.pl	email: Zbigniew Włodarczak@put.poznan.pl			
tel. (+4861)6653388			tel. (+4861) 665 33 87			
	culty of Engineering Ma zelecka Str. 11, 60-965	S .	Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			
	·	s of knowledge, skills and	•	- OZHAH		
1	Knowledge	First cycle study courses on computer science and information technology. Preferably this should include preliminary knowledge of HTML documents, programming language assignment and control instructions, being familiar with relational data bases.				
2	Skills	Preferably: ability to prepare sim structural programming language	nple HTML documents, understand simple programs in e.			
3	Social competencies	Interests in technologies that underlay everyday operation of network devices.				
Assu	imptions and obj	ectives of the course:				
concer regard busine	pt of net services, from led both as a self conta ess, Web page and We st cycle study curriculu		orogramming to modern Web se accompanying material to more f laboratory exercises vary depe	ervices paradigm. This may be e applicative courses on E- ending on students experience		
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	wledge:					
1. The	students should know	the Internet protocol stack archite	ecture and understand the idea	behind its layers [K2A_W08]		
[K2A_	W09]	aracterize main Web design techn	•			
		the concepts of Web services and		-		
4. Stud [K2A_'		ic cryptographic concepts and und	derstand their role in the compu	ter security technologies		
Skills						
	dent should be able to uter devices [K2A_L	configure their network environme J06]	ent and to manage several type	of connections between		
	•	I correct typical errors that appear aces between layers of Web applic		server [K2A_U06]		

1. Students should be aware of responsible use of the Internet applications and resources. - [K2A_K05 K2A_K06]

Assessment methods of study outcomes

-Practical tests in laboratories.

Oral presentations on key topics.

Course description

-Lectures:

The challenges of internetworking. TCP/IP protocol stack. The evolution of Web pages and Web applications. The Internet standards for Web design. XML and Web ontology. The concept of web services and supporting protocols. The cryptographical basis for network security.

-Laboratories:

Depending on students experience laboratory exercises provide more or less advanced illustrative material to lecture subjects. The main focus is on understanding web applications structure and operation.

Basic bibliography:

- 1. James F. Kurose, Keith W. Ross Computer Networking: A Top-Down Approach, Fifth Edition Pearson Education Inc., Prentice Hall 2010
- 2. Eric A. Meyer Meyer on CSS. Mastering the language of Web Design Pearson Education Inc., New Riders Publishing 2003
- 3. Luke Welling, Laura Thomson PHP and MySQL. Web Development Sams Corporation 2002
- 4. The Internet resources on Internet standards. The IBM and Microsoft documents on web services

Additional bibliography:

- 1. Web pages with Internet standards and programming languages documentation
- 2. Kevin R. Fall, W. Richard Stevens, TCP/IP Illustrated, Volume 1: The Protocols (2nd Edition)
- 3. Eric A. Meyer Meyer on CSS. Mastering the language of Web Design Pearson Education Inc., New Riders Publishing 2003

Result of average student's workload

Activity	Time (working hours)
1. Participation in lectures	15
2. Attendance and active participation in laboratory exercises	15
3. Preparation for the final credits	15
4. Home assignments	5

Student's workload

Source of workload	hours	ECTS			
Total workload	50	2			
Contact hours	30	1			
Practical activities	15	1			