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		STUDY MODULE DI	ESCRIPTION FORM		
	of the module/subject			Code 1011102211011165283	
Field of	study		Profile of study (general academic, practical)	Year /Semester	
		ment - Full-time studies -	(brak)	1/1	
Elective	e path/specialty  Ouality Sys	stems and Ergonomics	Subject offered in:  Polish	Course (compulsory, elective)  elective	
Cycle c	of study:	stems and Ligonomics	Form of study (full-time,part-time)	CICCLIVE	
Second-cycle studies			full-time		
No. of I	nours			No. of credits	
Lectu		s: 15 Laboratory: -	Project/seminars:	- 2	
	0.0000	program (Basic, major, other)	(university-wide, from another fi	eld)	
		(brak)	(brak)		
Educat	ion areas and fields of sci	· /		ECTS distribution (number	
				and %)	
socia	al sciences			2 100%	
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:	
dr F	Ryszard Danecki		dr inż. Zbigniew Włodarcza	k	
	ail: Ryszard.Danecki@	put.poznan.pl	email: Zbigniew.Wlodarczak@put.poznan.pl		
	(+4861)6653388		tel. (+4861) 665 33 87		
	culty of Engineering Mazelecka Str. 11, 60-965		Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań		
	•				
Prere	equisites in term	is of knowledge, skills and	a social competencies:		
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		
3	Social	Interests in technologies that und	derlay everyday operation of ne	etwork devices.	
3	competencies				
Assı	mptions and obj	ectives of the course:			
conce regard busine	pt of net services, from led both as a self conta	is twofold: to give students knowled in the early stages of client server plained course or as a supporting or the bapplications design. The level of turn.	programming to modern Web se accompanying material to more	ervices paradigm. This may be e applicative courses on E-	
	Study outco	mes and reference to the	educational results for	a field of study	
Knov	vledge:				
1. The	students should know	the Internet protocol stack archite	ecture and understand the idea	behind its layers [K2A_W08]	
2. The [K2A_		aracterize main Web design techn	ologies and discuss their advar	ntages and drawbacks	
3. Stu	dents should describe	the concepts of Web services and	semantic Internet [K2A_W08	3]	
4. Stu [K2A_		sic cryptographic concepts and und	derstand their role in the compu	iter security technologies	
Skill					
	dent should be able to ter devices [K2A_l	configure their network environme J06]	ent and to manage several type	of connections between	
2. The	y should diagnose and	d correct typical errors that appear	while updating Websites on a s	server [K2A_U06]	
	· · · · · · · · · · · · · · · · · · ·	aces between layers of Web applic	cations [K2A_U06]		
Soci	al competencies:	:			

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.

#### Forming rating:

- a) in the field of exercises: on the basis of an assessment of the current progress of task implementation
- b) in the field of lectures: based on answers to questions about the material discussed in previous lectures,

Summary rating:

- a) in the scope of exercises on the basis of: (1) public presentation of the project tasks indicated by the teacher (2)
- b) in the area of lectures: colloquium

# **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.

### Program methods:

- Information lecture
- Conversational lecture
- Works with a book
- Demonstration method

# Basic bibliography:

- 1. James F. Kurose, Keith W. Ross Computer Networking: A Top-Down Approach, Fifth Edition Pearson Education Inc.,
- 2. Luke Welling, Laura Thomson, PHP and MySQL Web Development (4th Edition) Sams Corporation
- 3. The Internet resources on Internet standards. The IBM and Microsoft documents on web services

### Additional bibliography:

- 1. Kevin R. Fall, W. Richard Stevens, TCP/IP Illustrated, Volume 1: The Protocols (2nd Edition)
- 2. 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. Participation in classes	15
3. Preparation for classes	10
4. Consultation	10
5. Preparation for test	6
6. Test	4

# Student's workload

Source of workload	hours	ECTS			
Total workload	60	2			
Contact hours	44	1			
Practical activities	15	1			