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		STUDY MODULE DI	ESCRIPTION FORM					
Name of the module/subject Internet Technologies and Services				Code 1011105211011165283				
Field of study			Profile of study	Year /Semester				
Engineering Management - Part-time studies -			(general academic, practical) (brak)	1/1				
Elective path/specialty Quality Systems and Ergonomics			Subject offered in: Polish	Course (compulsory, elective) elective				
Cycle o	of study:	Stems and Ergenomics	Form of study (full-time,part-time)	Ciconve				
Second-cycle studies			part-time					
No. of h	nours			No. of credits				
Lecture: 12 Classes: - Laboratory: - Pro			Project/seminars:	- 2				
Status		program (Basic, major, other) (brak)	(university-wide, from another f	^{ield)} (brak)				
Educati	ion areas and fields of sci	ence and art		ECTS distribution (number and %)				
social sciences				2 100%				
Resp	onsible for subj	ect / lecturer:	Responsible for subject	ct / lecturer:				
dr Ryszard Danecki email: Ryszard.Danecki@put.poznan.pl tel. (+4861)6653388 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań			dr inż. Zbigniew Włodarczak email: Zbigniew.Wlodarczak@put.poznan.pl tel. (+4861) 665 33 87 Faculty of Engineering Management Strzelecka Str. 11, 60-965 Poznań					
	•	s of knowledge, skills and	•	- OZHAN				
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	-	ole HTML documents, understand simple programs in					
3	Social competencies	Interests in technologies that underlay everyday operation of network devices.						
Assu	imptions and obj	ectives of the course:						
-The purpose of this course is twofold: to give students knowledge of core Internet technologies and to inroduce them to the concept of net services, from the early stages of client server programming to modern Web services paradigm. This may be regarded both as a self contained course or as a supporting or accompanying material to more applicative courses on E-business, Web page and Web applications design. The level of laboratory exercises vary depending on students experience and first cycle study curriculum.								
	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 architecture and understand the idea behind its layers [K2A_W08] 2. They should be able to characterize main Web design technologies and discuss their advantages and drawbacks [K2A_W09]								
_		the concepts of Web services and	semantic Internet [K2A_W08	3]				
4. Students should know basic cryptographic concepts and understand their role in the computer security technologies [K2A_W17]								
	Skills:							
1. Student should be able to configure their network environment and to manage several type of connections between computer devices [K2A_U06]								
	,	d correct typical errors that appear	, ,	server [K2A_U06]				
	3. They should specify interfaces between layers of Web applications [K2A_U06]							
Social competencies:								

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

Faculty of Engineering Management

Assessment methods of study outcomes

Forming rating:

based on the answers to questions about the material discussed in previous lectures,

Summary rating:

home final work and its defense.

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.

Teaching methods:

Problem and conversation lecture

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	12
2. Preparation for lectures	12
3. Literature studying	10
4. Final test	2
5. Consultation	10

Student's workload

Source of workload	hours	ECTS
Total workload	46	2
Contact hours	24	1
Practical activities	0	0