		STUDY MODULE D	ESCRIPTION FORM				
Name of Inter	f the module/subject net Technologie	Code 1011102311011165283					
Field of study Engineering Management - Full-time studies -			Profile of study (general academic, practical) (brak)	Year /Semester			
Elective path/specialty Marketing and Company Resources			Subject offered in: Polish	Course (compulsory, elective) elective			
Cycle of	study:		Form of study (full-time,part-time)				
Second-cycle studies full-ti				time			
No. of h	ours			No. of credits			
Lectur	e: 15 Classes	- 2					
Status of the course in the study program (Basic, major, other) (university-wide, from another field) (brak) (brak)							
Educatio	on areas and fields of sci	ECTS distribution (number and %)					
techr	ical sciences	2 100%					
Responsible for subject / lecturer: Responsible for subject / lecturer:							
dr Ryszard Daneckidr inż. Zbigniew Włodarczakemail: Ryszard.Danecki@put.poznan.plemail: Zbigniew.Wlodarczaktel. (+4861)6653388tel. (+4861) 665 33 87Faculty of Engineering ManagementFaculty of Engineering ManaStrzelecka Str. 11, 60-965 PoznańStrzelecka Str. 11, 60-965 Poznań				k k@put.poznan.pl nagement Poznań			
Prere	quisites in term	s of knowledge, skills an	d social competencies:				
1	Knowledge	First cycle study courses on con should include preliminary know assignment and control instruction	study courses on computer science and information technology. Preferably this lude preliminary knowledge of HTML documents, programming language ht and control instructions, being familiar with relational data bases.				
2	Skills	Preferably: ability to prepare sim structural programming languag	simple HTML documents, understand simple programs in lage.				
3	Social competencies	Interests in technologies that un	derlay everyday operation of ne	etwork devices.			
Assu	mptions 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			
Know	/ledge:						
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]							
3. Students should describe the concepts of Web services and semantic Internet [K2A_W08]							
4. Students should know basic cryptographic concepts and understand their role in the computer security technologies.							
_[rzA_V Skills	<u>v 17 j</u>						
Student should be able to configure their network environment and to manage several type of connections between computer devices - [K2A_106]							
 They should diagnose and correct typical errors that appear while updating Websites on a server [K2A_U06] They should specify interfaces between layers of Web applicationsK2A_U061 							
Social	Social competencies:						
1. Students should be aware of responsible use of the Internet applications and resources - IK2A_K05 K2A_K061							
1. Students should be aware of responsible use of the internet applications and resources [NZA_NO5 NZA_N05]							

Assessment methods of study outcomes					
-Practical tests in laboratories.					
Oral presentations on key topics.					
Course description					
-l ectures:					
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.,					
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 docume	nts 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. 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			

30

15

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Contact hours

Practical activities