

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Security aspects in e-business systems		Code 1010332531010337161
Field of study Information Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 3
Elective path/specialty Security of Information Technology (IT)	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: 15 Classes: - Laboratory: - Project/seminars: 15		No. of credits 5
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 5 100%
Responsible for subject / lecturer: dr inż. Anna Grocholewska-Czuryło email: anna.grocholewska-czurylo@put.poznan.pl tel. 61-665 35 31 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	K_W06: ma wiedzę o aktualnych trendach dotyczących zastosowań informatyki oraz kluczowych problemów z tym związanych. K_W10: Has deepened knowledge in the area of data security.
2	Skills	K_U04: Is able to develop a detailed experiment, project or research work documentation; is able to prepare a paper with analysis of the achieved results. K_U07: Is able to integrate knowledge from different domains and scientific areas while formulating and solving computer science problems.
3	Social competencies	K_K01: Is able to think and act in a creative and entrepreneurial fashion.
Assumptions and objectives of the course: As part of the course students will be familiarized with both the latest e-business technologies and business approach to e-commerce. Apart from design technologies and application of such systems they will learn the search engine positioning techniques. Also covered are the problems associated with technologies used to create current internet applications		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Has knowledge of advanced programming techniques and methods. - [K_W08]		
2. Has basic knowledge of selected information systems characterized by their specific characteristics or purpose. - [K_W12]		
Skills:		
1. Is able to assess the suitability of IT tools and technologies for realization of a specific IT task. - [K_U11]		
2. Is able to propose and justify improvements of existing IT solutions. - [K_U12]		
Social competencies:		
1. Is able to think and act in a creative and entrepreneurial fashion. - [K_K01]		
Assessment methods of study outcomes		
Written or/and oral examination based on lecture,		
Course description		

<p>The lectures cover the following matters: characteristics of e-commerce systems, electronic transaction security, correct web application development, presentation and business layer, Spring Framework based web application development, Web Services technologies allowing the implementation of distributed programme components available through SOAP protocol. Internet web search engine positioning. During the project work students prepare business application design taking into account business and security aspects</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Enterprise Service Oriented Architectures: Concepts, Challenges, Recommendations, McGovern J., Springer 2006 2. E-Enterprise: Business Models, Architecture and Components, Faisal Hoque 3. Pozycjonowanie w wyszukiwarkach internetowych, Shari Thurow, Helion 2008 		
<p>Additional bibliography:</p>		
<p>Result of average student's workload</p>		
<p>Activity</p>	<p>Time (working hours)</p>	
1. Participation in lectures	15	
2. Participation in project	15	
3. Preparation for the exam	30	
4. Preparation for the project	30	
5. Exam	2	
6. Consultations	13	
<p>Student's workload</p>		
<p>Source of workload</p>	<p>hours</p>	<p>ECTS</p>
Total workload	105	5
Contact hours	45	3
Practical activities	45	3