STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Security aspects in e-business systems**		Code **1010332431010337161**
Field of study **Information Engineering**	Profile of study (general academic, practical) **(brak)**	Year /Semester **2 / 3**
Elective path/specialty **Safety of Computer Systems**	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				No. of credits
Lecture: **1** Classes: **-** Laboratory: **-** Project/seminars: **1**				**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 %**)** **75 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	K_W06: Has knowledge of current trends of computer science applications and key problems associated with it.
		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 and security mechanisms implemented in the most popular browsers.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. K_W08: Has knowledge of advanced programming techniques and methods. - [-]

2. K_W12: Has basic knowledge of selected information systems characterized by their specific characteristics or purpose. - [-]

Skills:

1. K_U11: Is able to assess the suitability of IT tools and technologies for realization of a specific IT task. - [-]

2. K_U12: Is able to propose and justify improvements of existing IT solutions. - [-]

Social competencies:

1. K_K01: Is able to think and act in a creative and entrepreneurial fashion. - [-]

Assessment methods of study outcomes

Written or/and oral test based on lecture and project.

Course description

Features of software suites for electronic business, electronic transactions security issues. Presenting the problems associated with correct design of Internet applications, presentation and business layers. Building web applications based on Spring Framework architecture. Web Services technology allowing distributed software

component implementation (with SOAP protocol). Internet search engine positioning.

On projects students make project and/or implementations of business application including business and security aspects.

Basic bibliography:

1. 1.   Enterprise Service Oriented Architectures: Concepts, Challenges, Recomendations, McGovern J., Springer 2006

2. 3.   Pozycjonowanie w wyszukiwarkach internetowych, Shari Thurow, Helion 2008

Additional bibliography:

Result of average student's workload	
Activity	**Time (working hours)**
Student's workload	

Source of workload	**hours**	**ECTS**
Total workload	115	5
Contact hours	35	1
Practical activities	40	2