STUDY MODULE DESCRIPTION FORM

Name of the module/subject	Code
Internet Applications	**1011101151010500346**

Field of study	Profile of study (general academic, practical)	Year /Semester
Safety Engineering - Full-time studies - First-	**(brak)**	**3 / 5**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**elective**

Cycle of study:	Form of study (full-time,part-time)
First-cycle studies	**full-time**

No. of hours	No. of credits
Lecture: **15** Classes: **-** Laboratory: **30** Project/seminars: **-**	**4**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
(brak)	**(brak)**

Education areas and fields of science and art	ECTS distribution (number and %)
technical sciences	**4 100%**
Technical sciences	**4 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	There is no predecessors in First-cycle studies
2	**Skills**	Usage of Windows system, usage of web sites
3	**Social competencies**	Ability to formulate needs and to solve them. Group cooperation in preparing project

Assumptions and objectives of the course:

Acquainting students with selected technologies and standards in the area of developing applications available via www. Practical learning in creation of simple applications

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

Knowledge:

1. Student knows current trends and best practices in the area of information and computer science techniques, and supporting process of risk management. - [K1A_W16]
2. Student knows current trends and best practices in the area of information security and/or banking systems. - [K1A_W18]
3. Student knows and understand basic concepts in the area of authors law, information security and intellectual property security in free market economy. - [K1A_W34]

Skills:

1. Student can use information and communication techniques to make typical tasks in enginers activity. - [K1A_U07]
2. Student can plan and perform experiments, among the others mearusements and computer simulations, interpret obtained results and derive conclusions. - [K1A_U08]

Social competencies:

1. Student is aware of social role of the university of technology graduate, and especially understand need of formulating and communicate to society in specific. - [K1A_K07]

Assessment methods of study outcomes

Formative grade:

a) in the area of laboratory as a written check,

b) in the area of lectures: as a written or oral check on the basis of previously presented matter,

c) in the area of design work on the basic of subsequent stages.

Summarizing grade:

a) in the area of laboratory average of grades,

b) in the area of lectures: written pass,

c) in the area of design work: final grade of the design work.

Course description

1. HTTP protocol: basic concept, structure and sending HTTP communicates, HTML and XML languages as exemplarty contents send by HTTP.
2. Simple WWW application: configuration in programming environment and WWW server, implementation of the selected functions with sending communicate, making computation and showing result on the site.
3. Architectures of WWW applications, client server architecture, multilevel architecture, review of applications (WML, SOAP)
4. Implementation of the logic on server side: servicing of requests, session managemnt, generating of images.
5. Implementation of the logic on client side: JavaScript, AJAX.
6. Review of selected WWW technologies.

Basic bibliography:

1. S. Lachowski "Droga do innowacji", Studio Emka, Warszawa, 2010.
2. W. Kyciak, K.Przeliorz "Jak założyć skuteczny i dochodowy sklep internetowy", Helion, Gliwice, 2006.
3. W. Kyciak "Jak założyć skuteczny i dochodowy sklep internetowy(kolejna odsłona)", Helion, Gliwice, 2009.

Additional bibliography:

1. B. Gregor, M. Stawiszyński "e-Commerce", Branta, Bydgoszcz-Łódź, 2002.
2. A.P. Urbański "Cywilizacja internetu", Nakom, 2004.

Result of average student's workload

Activity	Time (working hours)
1. Lectures presence	30
2. Laboratory presence	30
3. Design presence	15
4. Preparing laboratory activity	15
5. Preparing design activity	15
6. Preparing to written lectures pass	10
7. Lectures pass oral description	2
8. Preparation of laboratory reports	6

Student's workload

Source of workload	hours	ECTS
Total workload	123	4
Contact hours	75	2
Practical activities	48	2