STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Technologies in Internet**		Code **1010341531010321878**
Field of study **Mathematics**	Profile of study (general academic, practical) **(brak)**	Year /Semester **2 / 3**
Elective path/specialty **-**	Subject offered in: **polish**	Course (compulsory, elective) **obligatory**
Cycle of study: **First-cycle studies**	Form of study (full-time,part-time) **full-time**	

No. of hours				No. of credits **5**
Lecture: **2**	Classes: **-**	Laboratory: **1**	Project/seminars: **-**	

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	ECTS distribution (number and %**)**
the sciences	**5 100%**
Mathematical sciences	**5 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Basic knowledge of computer science, computer networks and programming in high level languages.
2	**Skills**	Support browsers. The use of communication protocols. Algorithmic thinking. Collaboration in a team (group of laboratory).
3	**Social competencies**	Recognizes the importance of working tools in electrical engineering, the ability to expand their competences.

Assumptions and objectives of the course:

Practical skills related to the creation of modern websites with HTML tags, cascading style sheets, and data collected in the xml file. Sample Implementation of the project web page containing elements known technology and Java Script scripts. Publication of the project.

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

Knowledge:

1. Choose the appropriate Internet technologies to the set of functional features website. - [K_W08+ K_W09+]

2. Propose a method of data collection and define dependencies and constraints associated. - [K_W08+]

Skills:

1. Design, implement and publish a Web site. - [K_U27++ K_U28+]

2. Identify data and design of the data collection method for technical. - [K_U28+]

Social competencies:

1. Awareness of the need for tools to improve engineering efficiency and improve the economic importance of the company. - [K_K01++ K_K06+]

Assessment methods of study outcomes

Lecture

- assess the knowledge and skills listed on the completion of a written test and problematic,

Laboratory:

- assess the knowledge and skills related to the implementation of IT projects (including project website).

- checking and rewarding knowledge and skills for the implementation issues of problem (homework)

Get extra points for the activity in the classroom, and in particular for:

- activity classes in any attempt solutions to problems,

- ability to work as a team.

Course description

Markup Language (HTML), Cascading Style Sheets (CSS), Extensible languages XML, XSL stylesheets. The combination of HTML and CSS. Java Script scripting language. Connecting to Web pages with XML documents. Enrichment opportunities site scripting using Java Script. Publishing a Web site. Fundamentals of ASP.NET. Create a presentation on websites with Flash technology.

Basic bibliography:

1. Steven M. Schafer, HTML, XHTML i CSS. Biblia. Wydanie V, Helion, 2012.

2. Michael Moncur, JavaScript dla każdego. Wydanie IV, Helion, 2007.

3. Marcin Szeliga, Transact-SQL. Czarna księga, Helion 2003.

4. Randy Connolly, ASP.NET 2.0. Projektowanie aplikacji internetowych,.Helion, Gliwice, 2008

Additional bibliography:

1. Michael J. Young, Krok po kroku XML, Wydawnictwo RM, Warszawa 2000.

2. Danuta Mendrala, Paweł Potasiński, Marcin Szeliga, Damian Widera, Serwer SQL 2008. Administracja i programowanie, Helion 2009.

3. Tomasz Jahołkowski, Jacek Matulewski, Technologie ASP.NET i ADO.NET w Visual Web Developer, Helion, Gliwice, 2007.

Result of average student's workload

Activity	Time (working hours)
1. Participation in class lectures	30
2. Participation in laboratory classes	15
3. Participate in the consultations on the lecture	10
4. Participate in the consultations on the lab	15
5. Preparation for lecture classes	7
6. Preparation laboratory	15
7. Development project	15
8. Preparation for the completion of the lecture	15
9. Participation in the credits,	4

Student's workload

Source of workload	hours	ECTS
Total workload	126	5
Contact hours	74	3
Practical activities	45	2