-
Ω
⋾
$\overline{}$
_
α
\Box
Ν
0
Ω
-
\supset
0
π
`
3
>
>
>
2
<
• •
α
4
-
7

Faculty of Electrical Engineering							
STUDY MODULE DESCRIPTION FORM							
		Code 1010321261010324392					
Field of study Electrical Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 3 / 6					
Elective path/specialty Electrical and Computer Systems in	Subject offered in: polish	Course (compulsory, elective) obligatory					
Cycle of study:	Form of study (full-time,part-time)						
First-cycle studies	full-time						
No. of hours Lecture: 1 Classes: - Laboratory: 2	Project/seminars:	No. of credits					
Status of the course in the study program (Basic, major, other) (brak)	(university-wide, from another fie	eld) brak)					
Education areas and fields of science and art		ECTS distribution (number and %)					
technical sciences 3 100%							
Technical sciences		3 100%					
Responsible for subject / lecturer:							
Dr inż. Jarosław Jajczyk email: jaroslaw.jajczyk@put.poznan.pl tel. 616652659 Elektryczny ul. Piotrowo 3A, 60-965 Poznań							
Prerequisites in terms of knowledge, skills and	d social competencies:						

1	Knowledge	Basic knowledge of computer science, the relational database model 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 and designing relational databases. Sample Implementation of the project web page containing HTML tags, cascading style sheets, scripts, Java Script and XML files. The project relational database in MS SQL Server using Transact-SQL contains views, stored procedures and functions and triggers. Familiar with the technology building dynamic websites running on the server side (ASP.NET).

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_W10+, K_W11++]
- 2. propose a method of data collection and define dependencies and constraints associated [K_W11+]

Skills:

- 1. design, implement and publish a Web site [K_U04+, K_U05+]
- 2. to design and execute an MS SQL Server database applications engineering, define database objects, use the SQL queries - [K_U04+, K_U05+]

Social competencies:

1. awareness of the need for tools to improve the efficiency of electrical engineering and improve the economic importance of the company - [K_K05+]

Assessment methods of study outcomes

Faculty of Electrical Engineering

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 (two projects including: website and relational database in MS SQL Server),
- 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 and Java Script. Publishing a Web site. Characteristics of MS SQL Server, SQL and Transact-SQL - create database objects (tables, views, stored procedures and functions, triggers) and queries. Fundamentals of ASP.NET. Environment Web Developer Express Edition, web development using ASP.NET. Web collaboration with relational databases.

Basic bibliography:

- 1. Schafer S. M.: "HTML, XHTML i CSS. Biblia", Wydawnictwo Helion, Gliwice 2012.
- 2. Moncur M.: "JavaScript dla każdego", Wydawnictwo Helion, Gliwice 2007.
- 3. Szeliga M.: "Transact-SQL. Czarna księga", Wydawnictwo Helion, Gliwice 2003.
- 4. Connolly R.: "ASP.NET 2.0. Projektowanie aplikacji internetowych", Wydawnictwo Helion, Gliwice 2008.

Additional bibliography:

- 1. Young M. J.: "Krok po kroku XML", Wydawnictwo RM, Warszawa 2000.
- 2. Mendrala D., Potasiński P., Szeliga M., Widera D.: "Serwer SQL 2008. Administracja i programowanie", Wydawnictwo Helion, Gliwice 2009.
- 3. Jahołkowski T., Matulewski J.: "Technologie ASP.NET i ADO.NET w Visual Web Developer", Wydawnictwo Helion, Gliwice 2007.

Result of average student's workload

Activity	Time (working hours)
1. participation in class lectures	15
2. participation in laboratory classes	30
3. part in the consultation concerns lectures	3
4. part in the consultation concerns laboratory	3
5. preparation laboratory	14
6. implementation of project tasks	20

Student's workload

Source of workload	hours	ECTS
Total workload	85	3
Contact hours	51	2
Practical activities	67	2