STUDY MODULE DESCRIPTION FORM						
	f the module/subject Inologies in Inter	rnet	Code 1010322331010321878			
Field of study			Profile of study (general academic, practical)			
Electrical Engineering			general academic			
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)						
Second-cycle studies			full-time			
No. of hours				No. of credits		
Lectur	e: - Classes	s: - Laboratory: -	Project/seminars:	15 1		
Status c	Status of the course in the study program (Basic, major, other) (university-wide, from another field) Other university-wide					
Educatio	on areas and fields of sci		ECTS distribution (number and %)			
techr	ical sciences			1 100%		
	Technical scie	1 100%				
Responsible for subject / lecturer:						
dr inż. Jarosław Jajczyk email: jaroslaw.jajczyk@put.poznan.pl tel. (061) 6652659 Faculty of Electrical Engineering ul. Piotrowo 3A 60-965 Poznań						
		s of knowledge, skills an	d social competencies:	:		
1	Knowledge	Basic knowledge of computer so high level languages.	cience, construction of static we	eb pages and programming in		
2	Skills	Support browsers. The use of co a team (group of laboratory).	ommunication protocols. Algori	thmic thinking. Collaboration in		
3	Social competencies	Recognizes the importance of w competences.	rorking tools in electrical engine	eering, the ability to expand their		
Assumptions and objectives of the course:						
Familiar with the technology of construction of dynamic web sites running on the server side (ASP.NET). Practical skills related to the creation of modern websites work with relational databases. Sample Implementation of the project web page containing a relational database (MS SQL Server).						
Study outcomes and reference to the educational results for a field of study						
Know	/ledge:					
1. Cho	ose appropriate techn	ologies to the set of functional fea	tures website - [K_W07++]			
Skills	:					
1. Obtain from the literature and the internet-depth information on IT issues, particularly related to the design of websites - [K_U01++]						
2. Creative work individually and collectively to achieve the desired effect - [K_U02+]						
Social competencies:						
1. Awa	reness of the need to	use tools in the engineer - [K_K02	2++j			
Assessment methods of study outcomes						

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Class project:

- assess the knowledge and skills related to the implementation of an IT project (project website made in ASP.NET technology and works with relational database),
- 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

Characteristics. NET Framework and Visual Studio. Using the built-in controls support centralized management of the logical structure of the site and control access to the site. The use of master pages and AJAX (Asynchronous JavaScript and XML). Building websites with access to relational databases (MS SQL Server, SQL and Transact-SQL). Software created pages in ASP.NET using C#.

Update 2017:

MS Visual Studio, HTML5, CSS4.

Applied methods of education:

Project - analysis and discussion of various solutions to the problem, multimedia demonstration, teamwork.

Basic bibliography:

1. Matulewski J., Grabek M., Pakulski M., Borycki D.: ASP.NET Web Forms. Kompletny przewodnik dla programistów interaktywnych aplikacji internetowych w Visual Studio. Helion 2014.

2. Liberty J., Maharry D., Hurwitz D.: ASP.NET 3.5. Programowanie, Helion, Gliwice 2010.

3. Wrzesień M.:Aplikacje internetowe w ASP .NET, Wyższa Szkoła Informatyki i Zarządzania, Rzeszów, 2012

4. Jajczyk J., Medycki M.: Personalizacja witryn internetowych z wykorzystaniem architektury WebParts, ZKwE, 2009, s. 419-

420. Additional bibliography:

Practical activities

1. Schafer S. M.: HTML, XHTML i CSS. Biblia, Helion, Gliwice 2012.

2. Duckett J., HTML i CSS: zaprojektuj i zbuduj witrynę WWW, Helion, 2014

3. Balter A., T-SQL dla każdego, Helion, 2016.

4. Evjen B., Hanselman S., Rader D.: ASP.NET 4 z wykorzystaniem C# i VB. Zaawansowane programowanie. Helion 2016. 5. Jajczyk J., Kasprzyk L., Matuszak K.: Zastosowanie technologii ASP do wspomagania procesu dydaktycznego, ZKwE, 2003, s. 691-694.

Result of average student's workload

Activity	Time (working hours)	
1. participation in project activities		15
2. part in the consultation	6	
3. project preparation activities	4	
4. homework preparation	4	
5. implementation of project tasks		10
Student's wo	orkload	
Source of workload	hou	rs ECTS
Total workload	39	1
Contact hours	21	1