

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Technologies in Internet		Code 1010325341010321878
Field of study Electrical Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
Elective path/specialty Electrical and Computer Systems in	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: Second-cycle studies	Form of study (full-time,part-time) part-time	
No. of hours Lecture: - Classes: - Laboratory: - Project/seminars: 9		No. of credits 1
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 Technical sciences		ECTS distribution (number and %) 1 100% 1 100%
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 social competencies:		
1	Knowledge	Basic knowledge of computer science, construction of static web pages 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: 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		
Knowledge: 1. Choose appropriate technologies to the set of functional features 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. Awareness of the need to use tools in the engineer - [K_K02++]		
Assessment methods of study outcomes		

<p>Class project:</p> <ul style="list-style-type: none"> - 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). <p>Get extra points for the activity in the classroom, and in particular for:</p> <ul style="list-style-type: none"> - activity classes in any attempt solutions to problems, - ability to work as a team. 		
Course description		
<p>Characteristics. NET Framework and Visual Web Developer. 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#.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Evjen B., Hanselman S., Rader D.: ASP.NET 4 z wykorzystaniem C# i VB. Zaawansowane programowanie. Helion 2016. 2. Matulewski J., Grabek M., Pakulski M., Borycki D.: ASP.NET Web Forms. Kompletny przewodnik dla programistów interaktywnych aplikacji internetowych w Visual Studio. Helion 2014. 3. Liberty J., Maharry D., Hurwitz D.: ASP.NET 3.5. Programowanie, Helion, Gliwice 2010. 4. Jahołkowski T., Matulewski J.: ASP.NET w Visual Web Developer 2008. Ćwiczenia, Helion, Gliwice 2008. 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Schafer S. M.: HTML, XHTML i CSS. Biblia, Helion, Gliwice 2012. 2. McLaughlin B.D., Edelson J.: Java i XML, Helion, Gliwice 2007. 3. Mendrala D., Potasiński P., Szeliga M., Widera D.: Serwer SQL 2008. Administracja i programowanie, Helion, Gliwice 2009. 4. Szeliga M.: Transact-SQL. Czarna księga, Helion, Gliwice 2003. 5. Matulewski J.: 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 project activities	9	
2. part in the consultation	6	
3. project preparation activities	4	
4. homework preparation	6	
5. implementation of project tasks	14	
Student's workload		
Source of workload	hours	ECTS
Total workload	39	1
Contact hours	15	1
Practical activities	39	1