

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject (-)		Code 1010311441010320017
Field of study Power Engineering	Profile of study (general academic, practical) (brak)	Year /Semester 2 / 4
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 Lecture: 45 Classes: - Laboratory: 30 Project/seminars: -		No. of credits 5
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 %) 5 100% 5 100%
Responsible for subject / lecturer: mgr inż. Michał Filipiak email: michal.filipiak@put.poznan.pl tel. 61 665 23 82 Elektryczny ul. Piotrowo 3A 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	Basic knowledge of computer and programming in high level languages.
2	Skills	Support browsers. Algorithmic thinking.
3	Social competencies	Awareness of the need to broaden their competence.
Assumptions and objectives of the course: Practical skills involved in creating interactive websites, using the latest technology, enabling access to databases. The acquisition of basic skills on MS Visual Studio environment and - in the most basic level - computer networks.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Knows the rules for creating interactive websites - [K_W10++, K_W15+]		
2. Has expertise in creating websites for accessing databases - [K_W10++, K_W15+]		
3. Has knowledge of the basic issues of local and wide area computer networks and database systems - [K_W15+]		
Skills:		
1. Can use tools for creating websites, as well as design and create an interactive website - [K_U01+, K_U21+]		
2. Knows the structure of local area networks - [K_U21+]		
3. Can use network resources in order to gain knowledge - [K_U01+]		
Social competencies:		
1. Can think and act in a creative way - [K_K05+]		
Assessment methods of study outcomes		

<p>Lecture:</p> <ul style="list-style-type: none"> - Assess the knowledge and skills listed on the completion of a written, - Continuous evaluation for each course (rewarding activity). <p>Laboratory:</p> <ul style="list-style-type: none"> - The final test and favoring knowledge necessary for the accomplishment of problems in the area of laboratory tasks, - Continuous evaluation for each course - rewarding gain skills they met the principles and methods, - Assessment of knowledge and skills related to the implementation of the tasks your practice. <p>Get extra points for the activity in the classroom, and in particular for:</p> <ul style="list-style-type: none"> - A discussion of additional aspects of the processed issues, - The effectiveness of the application of the knowledge gained during solving the given problem, - Ability to work within a team practice performing the task detailed in the laboratory, - Comments related to the improvement of teaching materials, - Developed aesthetic care tasks. 		
Course description		
<p>Essential issues concerning creating websites, applications being used to create websites. Markup Language (HTML), Cascading Style Sheets (CSS), Extensible XML Languages. Combination of HTML and CSS technology. Java Script Language. Linking Web pages to XML and Java Script documents. Creating pages in RWD technology. Publish your site on the web. Creating applications for Android, The basics of ASP.NET technology. Creating web pages using ASP.NET technology. Cooperation of web pages with databases. Basics of AutoCad environment.</p>		
<p>Basic bibliography:</p> <ol style="list-style-type: none"> 1. Duckett J., HTML and CSS: Design and Build Websites, Helion, 2011 2. MacDonald M., HTML5: The Missing Manual , Helion, 2012 3. Bowers M., Synodinos D., Sumner V., Pro HTML5 and CSS3 Design Patterns, Helion, 2012 4. McFarland D. S., CSS3: The Missing Manual, 3rd edition, Helion, 2013 5. Stefanov S., Object-Oriented JavaScript, Helion, 2010 6. McFarland D. S., JavaScript & jQuery: The Missing Manual, Third Edition, Helion, 2015 7. Duckett J., JavaScript and JQuery: Interactive Front-End Web Development, Helion, 2015 		
<p>Additional bibliography:</p> <ol style="list-style-type: none"> 1. Comer D. Sieci komputerowe i intersieci , WNT 2. Comer D. ;Sieci komputerowe TCP/IP;, WNT 3. Internet 		
Result of average student's workload		
Activity	Time (working hours)	
1. lectures	45	
2. laboratories	30	
3. participate in the consultations on the lecture	5	
4. participate in the consultations on the laboratories	5	
5. preparation for laboratory	15	
6. homeworks preparation	20	
7. prepare for a evaluation	15	
Student's workload		
Source of workload	hours	ECTS
Total workload	135	5
Contact hours	85	3
Practical activities	70	3