|   |  | STUDY MODULE D   | ESCRIPTION FORM  |   |  |  |  |
|---|--|--|--|---|--|--|--|
|   | f the module/subject<br>nnologies in Inte  | rnet   |  | Code<br>1010342621010321878                 |  |  |  |
| Field of<br>Math  | study<br>nematics  |  | Profile of study<br>(general academic, practical)<br><b>(brak)</b> | Year /Semester                              |  |  |  |
| Elective path/specialty   |  |  | Subject offered in:<br>Polish                                      | Course (compulsory, elective)<br>obligatory |  |  |  |
| Cycle of  | f study:   |  | Form of study (full-time,part-time)                                | Form of study (full-time,part-time)         |  |  |  |
|   | Second-c   | ycle studies   | full-ti  | full-time                                   |  |  |  |
| No. of h  |  |  |  | No. of credits                              |  |  |  |
| Lectur  | 014000   | ,  |  | - 3   |  |  |  |
| Status o  | -  | program (Basic, major, other)<br><b>(brak)</b>   | (university-wide, from another fie                                 | brak)                                       |  |  |  |
| Educati   | on areas and fields of sci   | ence and art   | · · · ·  | ECTS distribution (number and %)            |  |  |  |
| techr   | nical sciences   |  |  | 3 100%                                      |  |  |  |
|   | Technical scie   | 3 100%   |  |   |  |  |  |
|   |  |  |  |   |  |  |  |
| Resp  | onsible for subj   | ect / lecturer:  |  |   |  |  |  |
| ema<br>tel.<br>Fac  | nż. Jarosław Jajczyk<br>ail: jaroslaw.jajczyk@p<br>(061) 6652659<br>ulty of Electrical Engir | neering  |  |   |  |  |  |
|   | Piotrowo 3A 60-965 Po  | oznan<br>Is of knowledge, skills an  | d 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 co<br>a team (group of laboratory).   | ommunication protocols. Algorith                                   | mic thinking. Collaboration in              |  |  |  |
| 3   | Social competencies  | Recognizes the importance of w competences.  | orking tools in electrical enginee                                 | ring, the ability to expand their           |  |  |  |
| Assu  | mptions and obj  | ectives of the course:   |  |   |  |  |  |
| related   | to the creation of mod   | of construction of dynamic web si<br>dern websites work with relational<br>ase (MS SQL Server).                |  |   |  |  |  |
|   | Study outco  | mes and reference to the   | educational results for a  | a field of study                            |  |  |  |
| Knov  | vledge:  |  |  |   |  |  |  |
|   | ose appropriate nume<br>he website - [K_W10+   | rical methods and technologies to<br>+++]  | the set of issues contained in th                                  | e various fields of science,                |  |  |  |
| Skills  | s:   |  |  |   |  |  |  |
|   | n present with a web s<br>matical method - [K_L  | site problem solving results in vari<br>J10++]   | ous fields of mathematics and p                                    | ractical tasks, using a                     |  |  |  |
|   | •  | d design methods to verify the logi  | cal operation of tools - [K_U21+                                   | +]  |  |  |  |
|   | al competencies:   |  | or further education - [K_K01+]                                    |   |  |  |  |
| <ol> <li>Is aware of his own limitations of knowledge and the need for further education - [K_K01+]</li> <li>It can work as a team, understands the need to work systematically on all projects that are long-term in nature - [K_K03++]</li> </ol> |  |  |  |   |  |  |  |
|   |  | the literature and electronic source   |  |   |  |  |  |
|   |  |  |  |   |  |  |  |
| Assessment methods of study outcomes  |  |  |  |   |  |  |  |

### Lecture

- assess the knowledge and skills demonstrated by the successful completion of a written test and problematic,

Laboratory classes:

- 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 development environment, HTML5 and CSS4.

Applied methods of education:

lectures - with multimedia presentations (drawings, photographs, animations) supplemented by examples given on the board, run in an interactive way, with questions to students or specific students, presenting a new topic preceded by a reminder of related content known to students from other subjects;

laboratories - supplemented with multimedia presentations, use of tools to enable students to perform home-based tasks (open source software), demonstrations.

### **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., Kasprzyk L., Matuszak K.: Zastosowanie technologii ASP do wspomagania procesu dydaktycznego, ZKwE, 2003, s. 691-694.

## Additional bibliography:

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.

Evjen B., Hanselman S., Rader D.: ASP.NET 4 z wykorzystaniem C# i VB. Zaawansowane programowanie. Helion 2016.
 Jajczyk J., Medycki M.: Personalizacja witryn internetowych z wykorzystaniem architektury WebParts, ZKwE, 2009, s. 419-

420.

# Result of average student's workload

| Activity   | Time (working hours) |
|--|----------------------|
| 1. Participation in class lectures                 | 15                   |
| 2. Participation in laboratory classes             | 15                   |
| 3. Participate in the consultations on the lecture | 6                    |
| 4. Participate in the consultations on the lab     | 10                   |
| 5. Preparation for lecture classes                 | 6                    |
| 6. Preparation laboratory                          | 12                   |
| 7. Development project                             | 15                   |
| 8. Preparation for the exam                        | 10                   |
| 9. Participation in the exam                       | 4                    |

## Student's workload

| Source of workload   | hours | ECTS |
|----------------------|-------|------|
| Total workload       | 93    | 3    |
| Contact hours        | 50    | 2    |
| Practical activities | 42    | 2    |

http://www.put.poznan.pl/