POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name

Technologies in Internet

Course

Field of study Year/Semester

Electrical Engineering 2/3

Area of study (specialization) Profile of study

Electric and Computer Systems in Industry and Vehicles general academic

Level of study Course offered in

Second-cycle studies polish

Form of study Requirements full-time compulsory

Number of hours

Lecture Laboratory classes Other (e.g. online)

0 0

Tutorials Projects/seminars
0 15

Number of credit points

1

Lecturers

Responsible for the course/lecturer: Responsible for the course/lecturer:

dr inż. Jarosław Jajczyk

email: Jaroslaw.Jajczyk@put.poznan.pl

tel. 616652659

Wydział Automatyki, Robotyki i Elektrotechniki

ul. Piotrowo 3A, 60-965 Poznań

Prerequisites

The student starting this subject should have basic knowledge of computer science, building static websites and programming in high-level languages. He should also be able to obtain information from specified sources.

Course objective

Introduction to the technology of building dynamic websites operating on the server side (ASP.NET). Acquiring practical skills related to creating modern websites cooperating with relational databases. Implementation of the sample project of a website containing a relational database (MS SQL Server).

Course-related learning outcomes

Knowledge

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1. Has knowledge of the possibilities of using object-oriented programming to build a website with database elements.

Skills

- 1. Is able to obtain from literature and the Internet in-depth information on IT issues, in particular those related to the design of internet applications.
- 2. Is able to creatively work individually and in team to achieve the desired effect.

Social competences

1. Is aware of the need to use IT tools in the work of an engineer and develops in using them.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge and skills acquired during classes are assessed based on the implementation of an IT project (website design made in ASP.NET technology cooperating with a relational database). Activity classes are favored in attempting to solve the problems posed.

Programme content

Characteristics of the .NET Framework platform and MS Visual Studio environment. The use of built-in controls supporting the central management of the logical structure of the site and controlling access to the site. The use of master pages and AJAX (Asynchronous JavaScript and XML) technology. Building websites with access to relational databases (MS SQL Server, SQL and Transact-SQL). Software for websites created in ASP.NET using the C # language.

Teaching methods

Multimedia presentation illustrated with examples displayed on the screen. Performing tasks given by the teacher - practical exercises.

Bibliography

Basic

- 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

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

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- 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.

Breakdown of average student's workload

	Hours	ECTS
Total workload	38	1,0
Classes requiring direct contact with the teacher	23	1,0
Student's own work (literature studies, preparation for project classes, project preparation) ¹	15	1,0

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¹ delete or add other activities as appropriate