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

Web applications

Course

Field of study

Safety Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study part-time

Year/Semester

2/4

Profile of study

general academic Course offered in

polish

Requirements

elective

Number of hours

Lecture Laboratory classes Other (e.g. online)

10 14

Tutorials Projects/seminars

Number of credit points

5

Lecturers

Responsible for the course/lecturer:

Zbigniew Włodarczak, Ph.D. Eng. zbigniew.wlodarczak@put.poznan.pl phone +48 61 665 33 87

Faculty of Engineering Management 2 Jacka Rychlewskiego Str.

60-965 Poznan

Responsible for the course/lecturer:

dr inż. Michał Trziszka

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Prerequisites

Using Windows, using websites. Ability to formulate needs and solve them. Cooperation in the group for the implementation of the project.

Course objective

To familiarize students with selected technologies and standards in the field of creating applications available through the WWW. Practical learning how to create simple applications.

Course-related learning outcomes

Knowledge

Knows development trends and best practices in creating web applications (P6S_WK_03) Knows the basic concepts and principles of copyright protection, information security and intellectual property protection in the context of web applications (P6S_WK_05)

Skills

Is able to use analytical, simulation and experimental methods to formulate and solve engineering tasks, also using information and communication methods and tools in the process of creating internet applications (P6S_UW_04)

Is able to plan and conduct experiments on web applications, including computer measurements and simulations, interpret the results obtained and draw conclusions (P6S_UO_01)

Social competences

Is able to initiate activities related to the formulation and transfer of information and cooperation in society in connection with the creation of internet applications (P6S KO 02)

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The lecture grade is based on the percentage of the colloquium. Questions and tasks checking understanding of the issues. Passing threshold - 50%.

The grade from the laboratory is given as an average of the grades of individual tasks performed during classes. The assessment takes into account the correctness and completeness of the results obtained.

Programme content

- 1. HTTP protocol: the principle of the HTTP protocol, construction and transmission of HTTP messages, HTML and XML languages as examples of content transferred via HTTP.
- 2. Simple web application: configuration of the programming environment and web server, implementation of several selected functions called with sending a message, making calculations and displaying the result on the page.
- 3. Web application architectures: client-server architecture, multi-layer architecture, application overview (WML, SOAP).
- 4. Server-side logic implementation: request handling and processing, session support, image generation.
- 5. Implementation of logic on the client side: JavaScript, AJAX.
- 6. Overview of selected WWW technologies.

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Teaching methods

Lectures: informative lecture, problem lecture, seminar lecture, case method.

Laboratories: laboratory (experiment) method, workshop method.

Bibliography

Basic

Lemay L., Colburn R., Kyrnin J., HTML, CSS i JavaScript dla każdego. Wydanie VII, Helion 2016

Nixon R., PHP, MySQL i JavaScript. Wprowadzenie. Wydanie V, Helion 2019

https://www.w3schools.com/

Additional

Duckett J., HTML i CSS. Zaprojektuj i zbuduj witrynę WWW. Podręcznik Front-End Developera, Helion 2018

Welling L., Thomson L., PHP i MySQL. Tworzenie stron WWW. Vademecum profesjonalisty. Wydanie V, Helion 2017

https://pasja-informatyki.pl/

Breakdown of average student's workload

	Hours	ECTS
Total workload	125	5
Classes requiring direct contact with the teacher	24	3,0
Student's own work (literature studies, preparation for	101	2,0
laboratory classes, preparation for tests) ¹		

1delete or add other activities as appropriate