COURSE DESCRIPTION CARD - SYLLABUS

Course name
Web Page Design [N1IZarz1>PSWWW]

Course

Field of study
Engineering Management

Year/Semester
3/6

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
part-time

Requirements
elective

Number of hours

Lecture
8

Laboratory classes
0

Other
0

Tutorials
10

Projects/seminars
0

Number of credit points

2,00

Coordinators

dr inż. Zbigniew Włodarczak
zbigniew.wlodarczak@put.poznan.pl

Lecturers

Prerequisites

Basic computer and internet browser skills, ability to obtain information from indicated sources and willingness to work in a team.

Course objective

The aim of the lectures is to provide the knowledge needed for independent website design. The purpose of the exercises is to design and build a simple website.

Course-related learning outcomes

Knowledge:
The student explains the basics of HTML5, including the structure of a document, the use of tags and attributes, and text operations [P6S_WG_08].
The student identifies and describes web technologies used in software development, including web servers and FTP/SCP connections [P6S_WG_13].
The student describes the basics of Cascading Style Sheets (CSS) and their application on a web page, as well as an introduction to the Bootstrap framework [P6S_WG_15].

Skills:
The student plans and executes web design projects using HTML5, CSS, Bootstrap, and WordPress, interpreting results and drawing conclusions [P6S_UW_09].
The student analyzes the technical and aesthetic aspects of web design, applying the knowledge gained to solve design problems [P6S_UW_11].
The student conducts a preliminary economic analysis of web page projects, assessing their efficiency and usability [P6S_UW_12].

Social competences:
The student demonstrates an awareness of the importance of a systemic approach in web design, considering technical, economic, marketing, legal, organizational, and financial aspects [P6S_KO_02].
The student appreciates the non-technical aspects of creating web pages, including their impact on users and society, and is aware of the responsibility associated with making design decisions [P6S_KR_01].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Knowledge acquired during the lecture is verified by completing one problem-solving task and a final test, pass mark: 50% of points. Exercises: During the semester, you must complete 4 tasks described in the course. Each task is assessed on a scale of 0-100 points. The points are converted into a final grade.

Programme content

Lecture:
1. Introduction to websites
2. Internet technologies when creating software
3. Basics of HTML5: document structure, use of tags and attributes, text operations.
4. HTML5 language continued: links, tables, forms on a website
5. Cascading CSS Style Sheets - an introduction to CSS styles and their use on the website.
6. Bootstrap - description and presentation of the framework.
7. Internet servers - connection to FTP / SCP.
8. Wordpress - installation, configuration and creation of websites based on a content management system.

Tutorials:
1. Basics of HTML5: document structure, use of tags and attributes, text operations.
2. HTML5 language continued: links, tables, forms on a website
3. Cascading CSS Style Sheets - introduction to CSS styles and their use on the website.
4. Bootstrap - description and presentation of the framework.
5. Internet servers - connection to FTP / SCP.
6. Wordpress - installation, configuration and creation of websites based on a content management system.
7. Using DIVI as an add-on to wordpress to create websites

Course topics

Lecture: Introduction, CSS, PHP, SQL.
Exercises: CSS, PHP, SQL.

Teaching methods

Lecture: multimedia presentation, illustrated with examples given on the board. Exercises: multimedia presentation, presentation illustrated with examples given on the board and carrying out tasks given by the instructor - practical exercises.

Bibliography

Podstawowa
1. Włodarczak Z., Technologie i usługi internetowe; PHP, Wydawnictwo Politechniki Poznańskiej, Poznań 2013
2. Borucki A., Włodarczak Z., Techniki opracowywania stron WWW, Wydawnictwo Politechniki

Poznańskiej, Poznań 2013

Uzupełniająca
1. Duckett J., JavaScript i jQuery. Interaktywne strony WWW dla każdego, Helion, Gliwice 2015
2. Duckett J., HTML i CSS. Zaprojektuj i zbuduj witrynę WWW. Podręcznik Front End Developera, Helion, Gliwice 2014
3. Lis M., PHP7. Praktyczny kurs, Helion, Gliwice 2017

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	18	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	32	1,50