Websites designing - course description

General information

Course name	Websites designing
Course ID	11.3-WE-BizElP-WebDes-r
Faculty	Faculty of Computer Science, Electrical Engineering and Automatics
Field of study	E-business
Education profile	practical
Level of studies	First-cycle Erasmus programme
Beginning semester	winter term 2021/2022

Course information

Semester	3
ECTS credits to win	3
Course type	obligatory
Teaching language	english
Author of syllabus	• dr inż. Robert Szulim

Classes forms

The class form	Hours per semester (full-time)	Hours per week (full-time)	Hours per semester (part-time)	Hours per week (part-time)	Form of assignment
Lecture	15	1	-	-	Credit with grade
Project	30	2	-	-	Credit with grade

Aim of the course

To familiarize students with the most important information technologies used to design and host modern websites.

Prerequisites

Basics of computer science, databases.

Scope

Basic protocols and services for websites, such as WWW, FTP and HTTP.

Publishing content on websites using HTML. Text embedding methods: paragraphs, headings, lists, tables. Embedding graphic images. Forms.

Formatting the appearance of web pages using CSS cascading styles. Rules, Selectors, linear, embedded, external and model box styles.

The use of JavaScript on websites. Variables, operators, procedures, event handling, object-oriented page model and forms.

Responsive websites with an overview of software solutions to facilitate their preparation.

Static and dynamic websites. Principles of their operation and review of available technologies.

The most important rules and mechanisms to ensure the security of websites. Mechanisms for logging in, sending and collecting passwords and encrypting the transmitted content.

Content management systems (CMS). The principle of operation, installation, configuration, management, installing themes, add-ons, plug-ins and building comprehensive websites. Discussion of the most popular platforms available on the market.

Teaching methods

lecture: conventional lecture

project: work in groups, practical classes

Learning outcomes and methods of theirs verification

Outcome description	Outcome symbols	Methods of verification	The class form
Is able to prepare and publish a website using HTML, CSS and JavaScript		• a preparation of a project	• Project
Is able to install and build a website using content management system (CMS)		• a preparation of a project	• Project
Has basic knowledge about the operation of basic information technologies used to build websites		• an evaluation test	• Lecture
Knows the use of websites in the electronic business		• an evaluation test	• Lecture

Assignment conditions

Lecture - written test, carried out at the end of the semester.

Project - the final grade is the weighted sum of the grades obtained for the implementation of individual project tasks.

Recommended reading

1. Duckett J., HTML i CSS. HTML and CSS: Design and Build Websites, Wiley, 2014

2. Duckett J, JavaScript and JQuery: Interactive Front-End Web Development, Wiley, 2014

3. Williams A., WordPress for Beginners 2019: A Visual Step-by-Step Guide to Mastering WordPress (Webmaster Series), Independently published, 2018

Further reading

1. Petersson C, Learning Responsive Web Design: A Beginner's Guide, O'Reilly Media, 2014

2. Lett J., Bootstrap 4 Quick Start: A Beginner's Guide to Building Responsive Layouts with Bootstrap 4, Bootstrap Creative, 2018

Notes

Modified by dr inż. Robert Szulim (last modification: 12-07-2021 12:25)

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