SYLLABUS

Name: Internet technologies
Name in Polish: Technologie internetowe
Name in English: Internet technologies

Information on course:

Course offered by department:	Faculty of Organisation and Management
Course for department:	Silesian University of Technology
Study level and form:	Bachelor's degree, Full-time
Term:	Summer semester 2022/2023
Coordinator of course edition:	Dariusz Zdonek (PhD)

Default type of course examination report:
Pass a subject
Language:
English
Course homepage:
https://platforma.polsl.pl/roz/course/view.php?id=829
ECTS
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Short description:
The purpose of the course is to acquire knowledge and skills in web technologies used in the industry to publish business and technical data.
Description:
The subject is aimed at acquiring by students the skills and knowledge appropriate for the course in the field of methods, tools for programming and presentation of data in the Internet environment with a distinction between front-end and back-end technologies. In addition, the purpose of the course is for students to gain knowledge of modern technologies for communication in wide area networks. Lectures: - Basic programming methods, tools and languages in the Internet environment - ide, server environment, front-end technologies, back-end technologies, Single Page Applications, frameworks, scripting languages; - Communication in networks - basic concepts of local and wide area networks, wireless networks. Lab: - Communication in networks, remote desktop, remote working, use of cloud applications for group work; - Building your own web application based on a content management system; - Using markup, styles and scripting languages of front-end and back-end technologies to build simple web applications. Lectures (15h), lab (15h). Lab classes are held on the dates specified in the class schedules and take the form of stationary. Attendance at laboratory classes is mandatory, with the right of the student to two unexcused absences.
Bibliography:
Michael Nelson, David Ezeanaka: Learn to Design a Website for Your Business, Using WordPress for Beginners, Lightning source inc 2019. Scott Wilson: Wordpress for Small Business: Easy Strategies to Build a Dynamic Website with Wordpress, Callisto media inc 2015. David R. Brooks: Guide to HTML, JavaScript and PHP For Scientists and Engineers, Springer London 2011. Michael Cordova: Wordpress Websites For Business, WildBlue Press 2017.
Learning outcomes:
Student: - has basic knowledge of modern web technologies used in business and industry; - has basic knowledge of methods, tools and programming languages in the Internet environment; - understands the principles of wide area network and application servers; - has the ability to design and create a simple web application for the presentation of business or technical data using a selected content management system or programming in a scripting language. In addition, the student:

- knows and understands selected topics in computer science and information technology, as well as the basics of signal analysis and data processing meth-ods (K1A _W08). - is able to properly selecting sources and information derived from them, evaluating, critically analyzing and synthesizing the information, - selecting and applying appropriate methods and tools, including advanced information and communication technologies (K1A _U14), and is able to independently plan and implement his/her own lifelong learning (K1A _U19);
- is ready for thinking and acting in an entrepreneurial manner (K1A _K04).

Assessment methods and assessment criteria:

Obtaining the required number of points indicated by the instructor at the beginning of the class for the reports and the design of a simple web application, implemented in the laboratories. Passing a lecture test or giving your own presentation and public discussion on Internet technologies in business or industry.

Practical placement:

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