

COURSE INFORMATION SHEET

University: Catholic University in Ružomberok	
Faculty: Faculty of Education	
Course code: KIN/In-BD214A/22	Course title: Web Design 2
Type and range of planned learning activities and teaching methods: Form of instruction: Lecture / Seminar Recommended study range: hours weekly: 2 / 1 hours per semester: 26 / 13 Teaching method: on-site	
Credits: 4	Working load: 100 hours
Recommended semester/trimester: 4.	
Level of study: I.	
Prerequisites:	
Requirements for passing the course: The student must master the theoretical knowledge of the subject and also prepare and defend a practical final thesis. Fulfillment of both conditions is demonstrated in the form of a final exam. Final assessment: total percentage gain from mastering theoretical knowledge (50%) and practical final work (50%).	
Learning outcomes of the course: - The student will know the basic commands of the PHP language and the possibilities of their use. - Can handle the design and creation of web design procedures with the help of PHP, MySQL, HTML5, CSS3, JS and GIT. - Can handle the basic cooperation of the PHP language with the MySQL database and the use of the Bootstrap framework for the design of responsive web applications. - Practically designs, programs and publishes a web application using the mentioned tools, containerization, or devices and services of the Internet of Things.	
Course contents: 1. Static and dynamic web, design and programming of web portals using PHP 2. XAMPP (APACHE+PHP+MySQL), VISUAL STUDIO, VS CODE 3. PHP language and working with a database (MySQL) 4. Variables, constants, fields, files, work with forms, functions and objects 5. Javascript, AJAX and site design modification (CSS3, Bootstrap) 6. Versioning system and teamwork (GIT) 7. Docker, Docker-compose and application containerization 8. Microcontroller and single-board computer as web server (ESP32, Raspberry Pi) 9. Publishing and updating web applications in real time (Cloud, Raspberry Pi) 10. Practical development of a web portal in a team using devices and services of the Internet of Things	

Recommended or required literature:

PILLÁR, J. 2021. <https://moodle.pf.ku.sk/> - electronic support for the subject.
Specialized web portal of the KEGA project: <https://UNIoT.sk>
Powell, T. A. 2004. Web design-Complete guide, Computer Press, Brno, 2004.
Brian, P.H. 2011. HTML5 and CSS3, Computer Press, Brno, 2011.
Croft, J., Lloyd, I., Rubin, D. 2007. Masters in CSS, Computer Press, Brno, 2007.
PHP course online, <https://www.w3schools.com/php/>
PHP Course Online, <http://www.tutorialspoint.com/php/>
LACKO, Ľ. 2005. PHP and MySQL - Ready solutions. Computer Press, Brno, 2005.
Bootstrap course online, <http://getbootstrap.com>

Language of instruction:**Notes:****Course evaluation:**

Assessed students in total: 11

A	B	C	D	E	FX
18.18	27.27	36.36	9.09	0.0	9.09

Name of lecturer(s): doc. Ing. Ján Pillár, PhD.

Last modification: 10.07.2022

Supervisor(s):

People responsible for the delivery, development and quality of the study programme:

prof. PhDr. Ingrid Emmerová, PhD., PhDr. ThLic. Martin Taraj, PhD., doc. Ing. Igor Černák, PhD.