

DESCRIPTION OF STUDY MODULE*

Study programme Applied Informatics and Programming

Study module BACK-END WEB DEVELOPMENT **Credits in total** 4

Learning outcomes
<ul style="list-style-type: none"> - Manage to apply PHP frameworks and content management systems. - Manage to design website internal systems according to the existing frameworks and functions of content management systems. - Manage to combine HTML websites with PHP frameworks and content management systems. - Create modules of PHP frameworks and content management systems. - Manage to maintain the existing systems developed on the basis of PHP frameworks. - Individually study the visual material and analyse the examples. - Develop the skills of time planning.
Aims of study module
<p>The objective of the study subject is to teach students the principles of programming website internal systems in PHP programming language. At the end of the course, students learn to combine the prepared HTML version of the website with one of the PHP content management systems. This allows them to maximise the use of the functions of PHP content management system in managing the dynamic content.</p>
Annotation of a study module
<p>The course provides students with the basics of practical application of PHP frameworks and content management systems. Students learn how to select the right PHP framework and content management system in accordance with the requirements provided and practise in combining the prepared website versions using the existing PHP frameworks and functions of content management systems. At the end of the course, attention is given to working with PHP frameworks and designing PHP framework-based internal systems. Practical activities of the course develop students' practical skills in performing the assigned tasks and developing their project, namely combining the prepared website HTML version with the chosen PHP content management system.</p>
Topics of the subject
<ol style="list-style-type: none"> 1. Introduction to programming of a website PHP internal systems 2. Content management systems 3. Wordpress content management system 4. ImpressPage content management system 5. Frameworks 6. CodeIgniter framework 7. Laravel framework
Procedure for assessment of knowledge and competences
<p>Applicable ten-point scale and criterion-cumulative assessment scheme. Progress-check tests (PT1, PT2) consists of 0.15, project (P) (website with chosen PHP content management system) - 0.2 and 0.5 of the final exam (E) assessment score, which is calculated by the weighted average method. Subject uptake final rating is calculated only if all self-employment (individual homework) assignment and progress-check tests are assessed the positive point. $F = PT1 * 0.15 + PT2 * 0.15 + P * 0.2 + E * 0.5$</p>
Main literature
<ol style="list-style-type: none"> 1. L. Lancor and S. Katha (2013). <i>Analyzing PHP frameworks for use in a project-based software engineering course.</i> 2. C. Hopkins (2013). <i>The MVC pattern and PHP.</i> 3. Ratnayake, Rakhitha Nimesh (2013). <i>WordPress Web Application Development.</i> 376 p.

* Short form