

## DESCRIPTION OF STUDY MODULE\*

**Study programme**

**Applied Informatics and Programming**

**Study module**

**PROGRAMMING PHP**

**Credits in  
total**

**4**

<b>Learning outcomes</b>
<ul style="list-style-type: none"> <li>– Learn the different types of data used in PHP programming language.</li> <li>– Manage to create object-oriented PHP programming classes, their methods and variables and are able to explain the types of PHPclass methods and variables.</li> <li>– Able to combine classes written in third-party object-oriented language.</li> <li>– Create PHP programming language-based calculation algorithms, forms, data processing functions.</li> <li>– Able to analyse codes written in PHP programming language and search for errors.</li> <li>– Able to use functions and cycles of PHP programming language.</li> <li>– Able to integrate databases in PHP programming language environment.</li> </ul>
<b>Aims of study module</b>
<p>The objective of the study subject is to teach students the basics of PHP programming language. At the end of the course, students learn to integrate PHP code storing data in the databases. It is also aimed at developing students' ability create their own PHP code-based system with user registration and login.</p>
<b>Annotation of a study module</b>
<p>The course provides students with the basics of PHP programming language. Students learn how to output the text in PHP programming language, perform calculations using cycles, logical and PHP functions. At the end of the course, attention is given to data storage, maintenance of user visiting session and dynamic content output through databases. Practical activities of the course develop students' practical skills in performing the assigned tasks and developing their project, namely. user-controlled system with registration, login and user control panel.</p>
<b>Topics of the subject</b>
<ol style="list-style-type: none"> <li>1. Introduction to PHP programming.</li> <li>2. Setting up PHP programming language working environment.</li> <li>3. Basics of PHP syntax.</li> <li>4. Basics of variables, arrays and functions.</li> <li>5. Logical functions.</li> <li>7. PHP form creation.</li> <li>8. Visiting session storage.</li> <li>9. PHP and dynamic content.</li> <li>10. Data security.</li> </ol>
<b>Procedure for assessment of knowledge and competences</b>
<p>Applicable ten-point scale and criterion-cumulative assessment scheme. Progress-check tests (PT1, PT2) consists of 0.15, project (P) (interactive system development) - 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. <math>F = PT1 * 0.15 + PT2 * 0.15 + P * 0.2 + E * 0.5</math></p>
<b>Main literature</b>
<ol style="list-style-type: none"> <li>1. Bramer, Max (2015). <i>Web programming with PHP and MySQL: a practical guides</i>. 388 p.</li> <li>2. Povilas Širvinskis (2011). <i>PHP pamokos pradedantiesiems</i>. 67 p.</li> <li>3. Valade, Janet Suehring, Steve (2013). <i>PHP, MySQL, JavaScript and HTML5 All-in-One For Dummies</i>. 720 p.</li> </ol>

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\* Short form