

Course title: Web Programming PHP 2
Course code: 64041
ECTS credits: 8
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 7
Goal: Enabling students to integrate acquired knowledge in object-oriented programming and web programming aimed at creating modern sites using development environments.
Outcome: Students should be able to create a website in one of the development environments, to implement existing classes and libraries, as well as to modify and create them independently.
Contents of the course
Theoretical instruction
1. Reasons for object PHP, Working with classes and objects
2. Automatic class loading, Use of magic methods
3. Class design, Creating classes, Controlling access to properties and methods, Using PHP filters to validate data
4. Creating and using validation classes
5. Database classes, Navigation classes, Image classes
6. Error and exception handling
7. Basics of MVC architecture, Method of approach to code realization, Work with development environment
8. Controllers, Models, Views, Helpers
9. Working with databases, Data management, Integration of JavaScript, jQuery and AJAX
10. Application security
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Example of MVC architecture
2. Creating controller classes
3. POST and GET data transfer
4. Realization of model classes, Realization of presentation level

5. Data validation, Content localization
6. Creating classes to expand the framework
7. Helper methods
8. Making custom helpers
9. File manipulation, Protection of data
10. Interaction of JavaScript, jQuery and AJAX with the environment
Textbooks and References
1. Matt Stauffer, Laravel - Radni okvir za izradu modernih PHP aplikacija, Kompjuter biblioteka Kompjuter biblioteka, 2019.
2. S. Holcner, PHP 5, Kompjuter biblioteka, 2006.
3. M. Zandstra, PHP Objects, Patterns and Practice, Apress, 2010.
4. A. Griffiths, CodeIgniter 1.7 Professional Development, PUCKT Publishing, 2010.
5. T. Myer, Professional CodeIgniter, Wrox, 2008.
Number of active classes (weekly)
Lectures: 4
Practical classes: 3
Other types of classes: 1
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures:
Activities on practical exercises: 20
Seminary work:
Colloquium: 30
Final exam: Points
Written exam: 50
Oral exam:
Lecturer
Nenad Kojić, PhD
Associate
Luka Lukić