Study program: Modern computer technologies
Course title: Web Programming
Professor/assistant: Slavimir N. Stošović
Type of course: elective
ECTS credits: 6
Pre-requisites:
Aims of the course:
To prepare students to:
- understand the basic concepts of multilevel web-based applications based on a particular server language,
- understand the possibilities of web application frameworks,
- apply the state-of-the-art technology for design of commercial Internet applications,
- use a web framework to develop a web application,
- analyze the complexity of the implemented web application and optimize it accordingly.
Learning outcomes:
By mastering the subject, a student will be able to:
- understand, formulate and present various types of Internet applications,
- establish the relationship between the frontend and the backend of web application frameworks,
- structure, formulate and design a multi-layer web application with the necessary complexity using the most effective methods and technologies,
- develop a multi-layer web application with the required complexity using one selected web framework,
- evaluate and execute complexity analysis and, if necessary, optimize the developed web application.
Syllabus
Theoretical part
Practical part
Practice, other forms of study and research work
Practical exercises will follow theoretical lessons. Students will be able to create a web application in a selected web template through the project task, which will be upgraded step by step at each time of the exercise.
Literature
1. E. Williams, D. Lane, Web aplikacije i baze podataka, O'Reilly, 2013.
3. Laravel up and running a Framework for building Modern PHP Apps, Matt Stauffer, O'Reilly Media, 2016.
Number of active classes
Lectures: 30 Practical classes: 30 Research work:
Other forms of teaching:
Teaching methods
Theoretical and practical classes are performed in the classroom with presentations, simulations and video files.
Grading system (maximum 100 points), grading scale from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.
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<th>Pre-exam obligations</th>
<th>points</th>
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<td>activity during theoretical lectures</td>
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<tr>
<td>Sum</td>
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