

Course title: Web Technologies
Course code: 64044
ECTS credits: 6
Requirements: None
Basic information
Level of studies: Master applied studies
Year of study: 1
Trimester: 1
Goal: Training students to create dynamic web sites using CMS, as well as writing stand-alone code for the modification of existing functionalities or the creation of new ones.
Outcome: Students should be able to show detailed understanding of basic theoretical and practical knowledge of CMS implementation aimed at creating web sites.
Contents of the course
Theoretical instruction
1. CMS concept
2. Installing and running Drupal CMS
3. CMS architecture
4. Code organization
5. Working with databases and data objects
6. CMS core design
7. User management
8. Page management
9. Working with sessions and users
10. Access control
11. Menus
12. Working with multilanguage sites
13. Creating and implementing templates
14. Concept and usage of plugins
15. Advanced usage of forms using plugins
16. Image galleries
17. Working with panels
18. Working with services

19. Application security
20. Creation and usage of modules
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. CMS architecture
2. Code organization
3. Database interaction
4. User administration section
5. Sessions and security
6. Caching
7. Access control
8. Expanding system functions
9. Navigation
10. Localization
11. Data exchange via AJAX
12. Classes for content presentation
13. Creating template data for content display
14. Data input control
15. Web services and CMS
Textbooks and References
1. K. Verens, CMS Design Using PHP and jQuery, PUCKT Publishing, 2010.
2. M. Brampton, PHP 5 CMS Framework Development, PUCKT Publishing, 2010.
3. S. Goldstein, CMS Made Simple Development Cookbook, PUCKT Publishing, 2011.
4. Todd Tomlinson , John VanDyk, Pro Drupal 7 Development, Apress, 2010.
Number of active classes (weekly)
Lectures: 4
Practical classes: 2
Other types of classes: 0
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures: 0
Activities on practical exercises: 20
Seminary work: 50
Colloquium:

Final exam: Points
Written exam: 30
Oral exam: 0
Lecturer
Nenad Kojić, PhD
Associate
Marko Spasojević, Milena Vesić