

<b>Course title: Cloud Services</b>
Course code: 50058
ECTS credits: 6
Requirements: None
<b>Basic information</b>
Level of studies: Master applied studies
Year of study: 2
Trimester: 5
Goal: This course will provide an extensive security and privacy protection analysis in a cloud environment. The safety aspect of the application of the technology will be considered using different data access models, analyzing data confidentiality, integrity and availability.
Outcome: Students will be able to identify different cloud services, analyze their characteristics, attributes and usage in the corporate world. Students will understand the possibilities, security challenges, and the benefits of using a controlled cloud environment.
<b>Contents of the course</b>
Theoretical instruction
1. Introduction to Cloud Computing
2. Cloud Computing — Services Model
3. Cloud Computing — Delivery Models
4. Cloud Architecture and Technologies
5. Cloud Migration
6. Server Migration to Cloud
7. Cloud Data Storage
8. Cloud Computing Platforms
9. Cloud Computing — Safety Aspect
10. Cloud Computing — Regulations
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Practical examples for topics of the course
<b>Textbooks and References</b>

1. "Privacy and Security for Cloud Computing", Editors S. Pearson, George Yee, Springer 2013.
2. B. Halpert , "Auditing Cloud Computing: A Security and Privacy Guide", Wiley Corporate F&A, 2011.
3. C. Catlett, W. Gentsch, L. Grandinetti, G. Joubert, J. L. Vazquez-Poletti, (Ed.) "Cloud Computing and Big Data", IOS PRESS, 2013.
4. N.Bacanin Dzakula,I.Strumberger "Klaud racunarstvo" , Univerzitet Singidunum 2013
<b>Number of active classes (weekly)</b>
Lectures: 3
Practical classes: 1
Other types of classes: 0
<b>Grading (maximum number of points: 100)</b>
<b>Pre-exam obligations: Points</b>
Activities during lectures: 10
Activities on practical excersises: 0
Seminary work: 30
Colloquium: 20
<b>Final exam: Points</b>
Written exam: 40
Oral exam: 0
<b>Lecturer:</b>
Tatjana Cvetković, PhD
<b>Associate:</b>