

Study program: Informatics			
Course title: Operating Systems			
Professor/assistant: Ivan D. Petrović			
Type of course: compulsory			
ECTS credits: 7			
Prerequisites: none			
Aims of the course: Introduction to the basic concepts of an operating system. All subsystems of modern operating systems and the user interface are processed. Getting acquainted with the concepts of Windows and Linux operating systems.			
Learning outcomes: The student understands working processes of the operating system and its subsystems. The student is able to practically apply gained knowledge in the development of operating systems and user interface. He/she understands the way Windows and Linux work.			
Syllabus: <i>Theoretical part:</i> <ol style="list-style-type: none"> 1. An introduction to operating systems 2. The core of an operating system and process management 3. Distribution of processes and allocation of the processor 4. Synchronization of the process 5. Deadlock 6. Memory management 7. Virtual memory 8. Input Output Subsystems 9. User interface 10. The family of operating systems - Windows and Linux <i>Practical part:</i> Practical exercises and auditory exercises			
Literature: <ol style="list-style-type: none"> 1. Borisav Đorđević, Operativni sistemi; Teorija, praksa i rešeni zadaci, Mikro knjiga, 2005 2. Vilijam Stalings, Operativni sistemi; Principi unutrašnje organizacije i dizajna, CET, 2013 3. Ivan D. Petrović, Skripta iz Operativnih sistema računara, 2016 			
Total number of active classes: 75		Theory classes: 45	Practical classes: 30
Teaching methods: Lectures, practical and auditory exercises			
Grading system (maximum 100 points) grading scale from 5 to 10: below 51 points – student fails the exam, 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.			
Pre-exam obligations:	Points:	Final exam:	Points:
Activity during lectures	max 5	Oral exam	50
Practical classes	max 5		
Written test	max 25		
Term paper	max 15		
Minimum requirement for the final exam	30		