

Course title:	Operating Systems
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Course code	Course status	Semester	Number of ECTS credits	Lecture hours
132002082	Mandatory	II	7	3+0+2

Study program:

Basic applied studies, ELECTRICAL ENGINEERING, study program: Computer engineering (studies last for 6 semesters, 180 ECTS credits).

Prerequisites:

No prerequisites required.

Course aims:

Through this course, students are introduced with general concept of operating systems and three operating systems are studied in details: DOS, Windows and Unix.

Teacher(s) and assistant(s): Ph.D. Zdravko Uskoković – teacher, Dipl. ing. Radosav Puzović – assistant, Mr Aleksandar Vučinć - assistant

Teaching method:

Teaching lectures and exercises performed in computer classroom/laboratory. Studying and individually doing home exercises, consultations.

Course synopsis:

Preliminary weeks	Preparation and semester enrolment.
I week	Introduction; Basic characteristics of operating systems. Classification of operating systems. DOS operating system. Significance and characteristics. File and directory system. DOS instructions. Discs, files and directory management instructions. Batch files. Instructions for system configuration. Windows operating system. Significance and performance. GUI elements. First test Free week Windows using. Files and folders system. START menu. Parameters configuration. Windows explorer. Files and folders manipulation. Windows and communications. Data exchange in Windows. Basics of UNIX operating system family. Genesis and history of UNIX. Second test Basic instructions for directories and files management. UNIX editor. Script files. Rerouting and forwarding. Final exam
II week	
III week	
IV week	
V week	
VI week	
VII week	
VIII week	
IX week	
X week	
XI week	
XII week	
XIII week	
XIV week	
XV week	
XVI week	
Final week	Administrative procedures.
XVIII-XXI week	Additional lessons, correction of the final exam and administrative procedures.

STUDENT WORKLOAD

<u>per week</u>	<u>per semester</u>
7 credits x 40/30 = 9 hours and 20 minutes	Teaching and the final exam: (9 h 20 min) x 16 = 149 hours and 20 minutes.
Working hours structure:	Necessary preparation (before semester): 2 x (9 h 20 min) = 18 h and 40 min.
3 hours for teaching	Total work hours for the course: 7 x 30 hours = 210 hours
2 hours for laboratory exercises	Additional hours for preparing correction of the final exam, including the exam taking: up to 42 hours (the rest of the time from the first two items, up to the total work time for the course, 210 hours).
4 hours and 20 minutes for individual work, including consultations.	Work hours structure:
	149 hours and 20 minutes (lectures) + 18 hours and 40 minutes (preparation) + 42 hours (additional work)

Lessons attendance is mandatory for students, as well as doing home and laboratory exercises and both tests.

Literature: Basic: Z. Uskoković, B. Krstajić, R. Puzović, D. Ojdanić, A. Vučinć: "Operativni sistemi".
 Additional: B. Krstajić: "Operativni sistemi"

The forms of knowledge testing and grading:

- Laboratory exercises carry 10 points
- 6 home exercises carry 6 points (1 point each)
- Each test carries 22 points (44 points total).
- Final exam carries 50 points.

Student gets the passing grade by collecting 51 points at least.

Special remarks for the course: The teaching is organized for student groups of about 100 students, and laboratory exercises for groups with 60 students. The course can be taught in English if necessary.

Teacher(s) who provided the information: Ph.D. Zdravko Uskoković

Remark: