

Course title: Computer peripherals and interfaces

Course code	Course status	Semester	Number of ECTS credits	Lecture hours
132005214	Mandatory	IV	6	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:

To introduce students to basic computer peripherals and interfaces, their interaction with PC (ways of connection, means of control etc.), as well as future trends in this area.

Teacher(s) and assistant(s):

Ph.D. Zoran Mijanović - teacher
Mr Milutin Radonjić - assistant
Ph.D. Neđeljko Lekić - assistant

Teaching method:

Lectures and laboratory exercises, consultations.

Course synopsis:

Preliminary weeks	Preparation and semester enrolment.
I week	Output ports.
II week	Input ports.
III week	Step motors.
IV week	Incremental sensors.
V week	D/A converters. <i>Preparation for the first test.</i>
VI week	First test
VII week	Free week
VIII week	A/D converters - direct conversion.
IX week	A/D converters - successive approximation.
X week	Communication interfaces.
XI week	<i>Preparation for the second test.</i>
XII week	Second test
XIII week	Interfaces in industry.
XIV week	Modems.
XV week	Future trends in computer peripherals and interfaces development.
XVI week	Final exam
Final week	Administrative procedures.
XVIII-XXI week	Additional lessons, correction of the final exam and administrative procedures.

STUDENT WORKLOAD

per week	per semester
Working hours: 6 credits x 40/30 = 8 hours.	Teaching and the final exam: (8 hours) x 16 = 128 hours.
Working hours structure:	Necessary preparation (before semester): 2 x (8 hours) = 16 hours.
3 hours for teaching	Total work hours for the course: 6 x 30 hours = 180 hours
2 hours for exercises	Additional hours for preparing correction of the final exam, including the exam taking: up to 36 hours.
3 hours for individual work, including consultations.	Work hours structure:
	128 hours (lectures) + 16 hours (preparation) + 36 hours (additional work)

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

Literature: Zoran Mijanović et. al., Računarske periferije i interfejsi, Podgorica, 1999, www.elektronika.cg.yu

The forms of knowledge testing and grading:

- Each test carries 20 points (40 points total).
- Final exam carries 60 points.

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

Special remarks for the course: Each group at laboratory exercises contains two students.

Teacher(s) who provided the information: Ph.D. Zoran Mijanović

Remark: