

		Course title: Information systems (Advanced course)		
Course code	Course status	Semester	Number of ECTS credits	Lecture hours
PA3302	Elective	III	5	3P+1V+0L

Study program:

Postgraduate master studies, ELECTRICAL ENGINEERING, study program: Electronics, Telecommunications and Computer engineering, Department: Computer Science (studies last for 10 semesters, 300 ECTS credits).

Prerequisites:

Programming I and II, Databases IS have to be passed (conditional)

Course aims:

Students will be introduced with methodology of contemporary information systems design. Exam is organized through projects and final exam.

Teacher(s) first and last names: Ph.D. Jaroslav E. Poliščuk – nastavnik

Studying method:

Lectures, exercises, seminar work, individual work on practical tasks, consultations.

Course synopsis:

<p>Preliminary week</p> <p>I week 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</p> <p>Final week</p> <p>XVIII-XXI week</p>	<p>Preparation and semester enrolment.</p> <p>General information about information systems Information system development planning Introduction into design and defining requests for information systems; System analysis. Modeling of functions and processes Data modeling; Presentation of the first part of the seminar work. Events modeling Engineering approach to information systems construction. Architecture of information systems Design of databases Design of program backup Seminar work presentations II part. Implementation of information systems Logic program design and program languages. Organization and managing the project Application and maintenance of information systems Final exam</p> <p>Administrative procedures.</p> <p>Additional lessons, correction of the final exam and administrative procedures.</p>
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STUDENT WORKLOAD

<u>per week</u>	<u>per semester</u>
<p>Working hours: 5 credits x 40/30 = 6 h 40min.</p> <p>Working hours structure:</p> <p>3 hours for teaching 1 hour for exercises 2 hours and 40min for individual work, including consultations.</p>	<p>Teaching and the final exam: (6h 40min) x 16 = 106h 40min.</p> <p>Necessary preparation (before semester): 2 x (6h 40min) =13hours 20min.</p> <p>Total work hours for the course: 150hours</p> <p>Additional hours for preparing correction of the final exam, including the exam taking: up to 36hours.</p> <p>Work hours structure:</p> <p>106h 40min (lectures) + 13hours 20min (preparation) + 30hours (additional work)</p>

Lessons attendance is mandatory for students, as well as doing homeworks and seminar works, etc.

Literature: *Poliščuk E. J.: Informacioni sistemi (skripta), ETF Podgorica, 2004.*
Poliščuk E. J.: Projektovanje informacionih sistema (knjiga u izradi).

The forms of knowledge testing and grading:

- Seminar work presentation (two parts, 5th and 10th week) carries 50 points
- Final exam carries 50 points

Student gets the passing grade by collecting **50** points at least.

Special remarks for the course

Teacher(s) who provided the information: Ph.D. Jaroslav E. Poliščuk

Note: