

		<b>Course title:</b> Radiotechnique		
<b>Course code</b>	<b>Course status</b>	<b>Semester</b>	<b>Number of ECTS credits</b>	<b>Lecture hours</b>
PA3101	Mandatory	I	6	3L+1E

<b>Study program:</b> Graduate academic studies, ELECTRICAL ENGINEERING, study program: Electronics, Telecommunications and Computer engineering (studies last for 4 semesters, 120 ECTS credits).	
<b>Prerequisites:</b> No prerequisites required.	
<b>Course aims:</b> Students will be introduced with the basic concepts of systems for radiotechnique. Also, They will be introduced with actual and perspective emitter-receiver architectures.	
<b>Teacher(s) first and last names:</b> Prof. dr Ivo Kostić - nastavnik	
<b>Studying method:</b> Lectures, exercises, laboratory exercises, individual work on practical tasks, consultations.	
<b>Course synopsis:</b>	
Preliminary week	Preparation and semester enrolment.
I week	Introduction
II week	Selective and adaptable circuits
III week	Input circuits of the receiver
IV week	RF amplifiers
V week	RF pojačavači za male signale
VI week	Mixers
VII week	<b>free week</b>
VIII week	<i>I colloquium</i>
IX week	Frequency sintesys- concepts
X week	PLL- linearized model
XI week	Frequency sysntesys- solutions
XII week	RF transformers
XIII week	RF power amplifiers
XIV week	Automated antenna adaptation
XV week	<i>II colloquium</i>
XVI week	<i>Final exam</i>
Final week	Administrative procedures.
XVIII-XXI week	Additional lessons, correction of the final exam and administrative procedures.
<b>STUDENT WORKLOAD</b>	
<u>per week</u>	<u>per semester</u>
<b>Working hours:</b> 6 credits x 40/30 = 8 hours.	<b>Teaching and the final exam:</b> (8hours) x 16 = 128hours.
<b>Working hours structure:</b> 3 hours for teaching 1 hour for exercises 4 hours for individual work, including consultations	<b>Necessary preparation</b> (before semester): 2 x (8hours) = 16hours. <b>Total work hours for the course:</b> 176hours <b>Additional hours</b> for preparing correction of the final exam, including the exam taking: up to 36hours.
	<b>Work hours structure:</b> 128hours (lectures) + 16hours (preparation) + 36hours (additional work)
Lessons attendance is mandatory for students, as well as doing home and seminar works, etc.	
<b>Literatura:</b> I. M. Kostić, Radiotechnique systems, Pergamena, Podgorica, 1996. I. M. Kostić, Radiotechnique, lecture notes. I. M. Kostić, Script for exercises.	
<b>The forms of knowledge testing and grading:</b> - 11 homeworks - 10 points in total, - Each colloquium carries 20 points (40 points in total) - Final exam 50 points. - Student gets the passing grade by collecting 51 points at least.	
<b>Special remarks for the course:</b>	
<b>Teacher(s) who provided the information:</b> Prof. dr Ivo Kostić	
<b>Note:</b>	