

LIST OF POSSIBLE ELECTIVE COURSES IN FOURTH YEAR

Program	Type of study (cycle)		First cycle	
	Name of the program		Physics	
Name of the course	ELECTRICAL MEASUREMENTS OF NON-ELECTRIC QUANTITIES			
Course ID	Semester	Course status	ECTS credits	L+E
PCM6411	VIII	ELECTIVE	4	2+1
Professor	Prof. dr. Edvin Skaljo,			
Aims and intended learning outcomes	The objective of the course is for students to acquire the skills of converting non-electrical quantities into electrical quantities in order to process the information received, transfer it to the desired destination and use or store it.			
Course content				
Analogy of mechanical and electrical systems and quantities. Sensors. Measurement of temperature, pressure and speed, and conversion of measured values into electrical quantities. Measuring and converting other sizes such as humidity, density, concentration of desired and unwanted ingredients. Introduction to basic settings for transmitting information from sensors in the form of an electrical or optical signal, and an introduction to the transmission of information over the Internet.				
Student workload (hours)		Grading		
Lectures and Exercises	45	Assessment method	Points	
Exam preparation	30	Partial exam	40	
Assignments	10	Seminar	20	
Other	15	Student activity	10	
Total	100	Final exam	30	
		Total	100	
Literature				
1. Senzori i merenja / Mladen Popović 316696 2. Fizičko-tehnička merenja: merenje neelektričnih veličina električnim putem / Dragan Stanković 1975557 3. Osnove automatike. Dio 1, Mjerenja neelektričnih veličina / Florijan Rajić 152834				
Remarks				