Study program: E	lectrical and Comp	uting Engineering				
Type and level of	studies: Doctoral st	tudies (third level of studies	s)			
Course unit: Ser	isorics					
Teacher in charg	e : Nebojša Mitro	ović				
Language of instr	ruction: English					
ECTS: 15						
Prerequisites: -						
Semester: Summe	er					
Course unit obje	ctive arch work in the fig	ld of concore				
Learning outcom	es of Course unit	nd of sensors				
Possibilities for n	easurements chara	cteristics of different type	s of sensors	(impedance in	ductivity canacitivity	
Q-factor) up to M	Hz or GHz and sele	ection of sensors with optin	nal sensitivity	(impedance, m /.	auctivity, cupacitivity,	
Course unit cont	ents					
Theoretical classe	25					
Technical specific (impedance, indu frequencies whe magnetoresistance	cation of sensors a activity, capacitivity are is appearance e sensors. Analysis,	and their applications. Cha ty, Q-factor). Practical n e of specific effects. explanation and presentation	aracterization neasurements Developments on of measur	and testing o s on RLC-me nt of magne ing results.	f sensors components eter up to very high etoimpedance sensor,	
Analysis of scient	ific papers pertainin	ng to sensors.				
Practical classes						
Candidates perfor experimental resu	m their research w lts and writing scien	ork on experiment prepara ntific paper, as a possible th	ation and per	rfoming sensor	s element. Analysis of on.	
 [1] J. Platell, Handell, Handell, [2] X. P.V. Maldag [3] K. H. J. Buscho [4] Science journals 	ue, Theory and Prac w, Handbook of Mag s in the field of senso	sors, Thysics, Design and Ap tice of Infrared Tehnology fo gnetic Materials, Vol. 15, Els rs: Sensors and Actuators A:	r Nondestructa sevier, B.V. An Physical, Sen	<i>ive Testing</i> , Johr msterdam, 2003. <i>sors and Materi</i>	n Wiley & Sons 2001 als, Sensors.	
Number of active	e teaching hours		1		Other classes	
Lectures: 3	Practice: 5	Other forms of classes	Independen	t work: 2	Other classes	
Teaching method	ls Lessons, consul	tations, study and researc	ch work			
	Exa	mination methods (maxi	mum 100 po	ints)		
Exam prerequisi	tes	No. of points:	Final exam		No. of points:	
Student's activity during lectures		5	oral examination		50	
Practical classes/tests		15	written examination			
Seminars/homework		-				
Project		30				
Other		-				
		Grading system	m		l	
Gr	ade	No. of points	;	D	escription	
10		91-100		Excellent		
9		81-90		Exceptionally good		
8		71-80		Very good		
7		61-70		Good		
6		51-60		Passing		
5		less than 50		Failing		

mmented [L1]: ?

Teaching methods Lessons, consultations, study and research work									
Examination methods (maximum 100 points)									
Exam prerequisites	No. of points:	Final exam		No. of points:					
Student's activity during lectures	5	oral examination		50					
Practical classes/tests	15	written examination							
Seminars/homework	-								
Project	30								
Other									
Grading system									
Grade	No. of points		Description						
10	91-100		Excellent						
9	81-90		Exceptionally good						
8	71-80		Very good						
7	61-70		Good						
6	51-60		Passing						
5	less than 50		Failing						