Information sheet for the course Basic of electrotechnics and electronics

Faculty: Faculty of special technology						
Course unit code: <i>MŠT/B/1-81/d</i>	Course unit title: <i>Basic of electrotechnics and electronics</i>					
Type of course unit: <i>compulsory</i>						
Planned types, learning activities and	teaching methods:					
	practice per week and one hour of laboratory exercises					
per week, face to face method						
Number of credits: 5						
Recommended semester: 3 rd semester	in the 2^{nd} vear (full-time)					
	in the 3 rd year (part-time)					
Degree of study: <i>I. (bachelor)</i>						
Course prerequisites: <i>MŠT/B/4-07/d Pi</i>	hysics L. MŠT/B/4-08/d Physics II.					
Assessment methods:						
	ace and active creative work on laboratory exercises, the					
	, mastery of technical terminology, min. 60% attendance					
10 11						
at lectures. Twice during the semester written test. The ongoing evaluation is necessary to obtain min. 30 points. Final assessment: test in a written test with emphasis on theoretical knowledge of						
	esponse. Out of the 30 points, it is required to obtain for					
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Learning outcomes of the course unit:						
8	owledge of the fundamental principles of electrica					
	is on the basic concepts, quantities and units of electrica					
5 C	ic parts specification from the viewpoint of their					
applications in electrical devices, mobile						
Course contents:	e teennology, allernale and one way.					
	human body, protection against dangerous effects o					
	and the health and safety at work on the electrica					
•	c field, the potential tension. Ohm's law, Kirchhof law					
	on in electrical devices. Self and mutual inductance					
	•					
Electrical machinery, characteristics and distribution. Transformers. Asynchronous machines Synchronous machines. Commutator machines. DC machines. Operating conditions the electric						
	ransistors, the basic engagement characteristics					
Optoelectronic elements, characteristics and basic applications. Integrated electronic circuits.						
Recommended of required reading:	una ousie applications. Integratea electronic circuits.					
	ika Alfa-pres 1987					
HRAŠKO, P. ,PUZIAK, I.: Elektrotechnika, Alfa-pres 1987. MAŤATKO, J.: Elektronika. IDEA SERVIS, Praha 2002.						
KOHLMANN, Č.: Matematika ve sdelovací technice, SNTL Praha, 2002. HASSDENTEUFEL, J.; Elektrotechnické materiály; SNTL Praha 1978. LIGHTNING - služby						
elektro 2011.	e materialy, SIVIE I rana 1976. E1011111110 - Sta20y					
	roje, Žilina: Žilinská univerzita, 2004. 335 s. ISBN 80-					
8070-229-2	oje, Zilina. Zilinska univerzila, 2004. 555 S. 15DN 80-					
,	AR spol s r o Žiling ISBN 078-80-80072					
MICHALÍK, J.: Elektrotechnika, MARKAB spol. s.r.o. Žilina, ISBN 978-80-89072 MERAVÝ, J.: Elektrotechnická spôsobilosť pre elektrikárov, vydavateľstvo Ing. Ján Meravý -						
	osť pre elektrikárov vydavateľstvo Ing Ián Meravý -					
MERAVÝ, J.: Elektrotechnická spôsobile	osť pre elektrikárov, vydavateľstvo Ing. Ján Meravý -					
	osť pre elektrikárov, vydavateľstvo Ing. Ján Meravý -					

Subject is required.							
Evaluation history:							
Total number of students being evaluated 205 divided by notes							
А	В	С	D	E	FX		
22.93	18.54	19.51	23.41	15.61	0,00		
Lecturers: Assoc. prof. Vladimír Áč, CSc lecturer, Assoc. prof. Peter Lipták, CSc lecturer							
PaedDr. Erika Hujová, PhD instructor							
Last modification: 15.4.2014							
Supervisor: Assoc. prof. Ing. Peter Lipták, CSc., guarantee of the study program "Mechanisms							
in Special Technology"							