Information sheet for the course **Rubber Technology**

University: Alexander Dubček Universit	
Faculty: Faculty of Industrial Technolog	
Course unit code: <i>MI-I-PV-17C</i>	Course unit title: <i>Rubber Technology</i>
Type of course unit: optional	
Planned types, learning activities and t	eaching methods:
Lecture: 2 hours weekly/26 hours per sen	nester of study; face to face
Seminar: 1 hours weekly/13 hours per set	mester of study; face to face
Laboratory tutorial: 0	
Number of credits: 4	
Recommended semester: 3 rd semester in	
3 rd semester i	in the 2 nd year part-time
Degree of study: the 2 nd degree of study (A)	Engineer's degree)
Course prerequisites: none	
Assessment methods:	
Student writes two screening control tes	sts during semester and obtains minimally 60 % from
both tests.	
Learning outcomes of the course unit:	
Student has the knowledge about technol	logy processes in rubber industry and student orients in
this problem.	
Course contents:	
1. The composition of rubber blends – cha	aracterization. the effect in blend.
	spersion and homogenization of components.
3. Extrusion of rubber blends.	
4. Calendering of rubber blends.	
	echnology, material composition of blends for jacketing.
6. Waterproofing of reinforcing materials	
1 0 0 0 0	ology, material composition of flooring materials.
8. Tires – distribution, structure, basic ty	· · · ·
9. Production technology of tires.	pes, maiorial composition.
	ture, basic types, material composition, production.
11. Drive belts – types and structure, prod	
12. Hoses – types and structure, material	
<i>v</i> 1	nes – properties, material composition, production
technology.	
14. Technical rubber – distribution, exam	unles of utilization production methods
15. Methods of rubber waste recycling, un	
16. Reinforcing materials in rubber produ	
Recommended of required reading:	
OLŠOVSKÝ, M.: Kaučuky. Výroba-vlastn	nosti-noužitia Trančin · TullAD 2012
OLŠOVSKÝ, M. a kol.: Gumárenské výro	
PREKOP, Š. a kol.: Gumárska technológ	
	árenské suroviny a jejich zpravovávaní. Praha : VŠCHT,
2009.	

Language: *Slovak* Remarks:

Evaluation his	tory					
Number of stud	lents: 7					
A	В	С	D	E	FX	
14.29	14.29	57.14	0.0	14.29	0.0	
Lecturers: doc	. Ing. Petra Ska	lková, PhD.				
Last modificat	ion: 31.03.2014	!				
Supervisor: p	orof. Ing. Darina	Ondrušová, Pl	hD.			