Information sheet for the course Physical metallurgy of steels and their heat treatment

University: Alexander Dubček University	of Trenčín		
Faculty: Faculty of special technology			
Course unit code: <i>STaM/I/3-17/d</i>	Course unit t and their heat	•	etallurgy of steels
Type of course unit: <i>compulsory</i>			
Planned types, learning activities and tea	aching methods:		
Lectures - 2 hours weekly, laboratory semi	_	, on-site method	
Number of credits: 15			
Recommended semester: 1 st semester in the	he 1 st year		
Degree of study: III.	•		
Course prerequisites: none			
Assessment methods:			
100% attendance on seminars, 60 % att	tendance on lecture	es, successful su	bmission of the
seminar paper, proof of acquired knowle	edge from the subje	ect with using o	ral and written
examination			
Learning outcomes of the course unit:			-
The student has a deep knowledge of the c			
non-ferrous metals, composites, sintered	-	-	
physical metallurgy and limit states, whi	ich are used in the	art, with possil	ple application in
science and research.			
Course contents:	C 1. CC	1	
Laws internal structure of materials. Theo			•
material properties due to changes in the s			
of structural steel, alloy and specialty. The			
of steels and cast irons. Non-ferrous metal			•
composites and shape memory material. E: phase transformations. Summary of the e.	-		0
properties of materials.	xperimentat aeterm	indition of static	snock and cyclic
Recommended of required reading:			
[1] HÍREŠ, O.: Fyzikálna metalurgia ocelí	í a ich tenelní snraca	wanie TnUAD v	Trenčíne 2006
168 s.	a ion iopeini sprace		<i>Trenetite</i> , 2000,
[2] PTÁČEK, L. a kol.: Náuka o materiálu	I CERM Brno 200	2	
[2] SKOČOVSKÝ, P. a kol.: Konštrukčné n			
Language: Slovak		,	
Remarks:			
Evaluation history			
l l			
<i>Total number of students being evaluated:</i>			
Total number of students being evaluated:ABC	D	Е	FX
	D 0,0	E 0,0	FX 0,0
A B C 0,0 0,0 0,0	0,0		
ABC0, 00,00,0Lecturers:Assoc. prof. Ing. Ondrej Hír	0,0		
ABC0,00,00,0Lecturers:Assoc. prof. Ing. Ondrej HirLast modification:15.4.2014	0,0 veš, CSc.	0,0	0,0
ABC0, 00,00,0Lecturers:Assoc. prof. Ing. Ondrej HírLast modification:15.4.2014Supervisor:prof. Ing. Vojtěch Hrubý, CSa	0,0 eš, CSc. c., guarantee of the	0,0 study program "	0,0 Technologies and
ABC0,00,00,0Lecturers:Assoc. prof. Ing. Ondrej HirLast modification:15.4.2014	0,0 veš, CSc. c., guarantee of the ssoc. prof. Ing. Ond	0,0 study program "	0,0 Technologies and