## Information sheet for the course Modern Methods of Computational Modeling

University: Al	exander Dubček	University of	Trenčín		
	ty of Industrial T	· · ·			
Course unit co			<b>Course unit title:</b> Modern Methods of		
			Computationa	l Modeling	-
Type of course	e <b>unit:</b> optional				
	learning activi			tudu: face to face	
Laboratory tuto	orial: 2 nours we	ekiy/20 nours j	per semester of s	tudy; face to face	
Number of cre	dits: 2				
		semester in the	1 <sup>st</sup> year full-time	e	
$2^{nd}$ semester in the $1^{st}$ year part-time					
Degree of stud	<b>y:</b> the 2 <sup>nd</sup> degree				
Course prereq					
Assessment me	ethods:				
Active participation in the seminars. The final exam.					
	0.1	•			
Learning outcomes of the course unit:					
Students can use modern methods of computational modeling and their application in practice. Students have knowledge of the inputs to the calculation, their settings and learn to evaluate the					
results of the ca		inpuis to the d	calculation, their	r sellings and lear	rn to evaluate the
Course conten					
		of computation	al modeling Nu	merical methods a	and their henefits
•		· •	•	hods. Finite elem	
				eling of compos	
			-	sing geometric pla	
		•		rameters and the	
		•		of proper evaluat	•
of computation	-	5	1 1	51 1	0
Recommended	l of required rea	ading:			
				Materials Using A	ANSYS - Second
Edition, CRC Press, 2014. ISBN 978-1-4665-1689-2.					
		•	of Composite M	aterials, CRC Pre	ss, Boca Raton,
	7. ISBN 978-1-4		,		
	× *	i sa výpočtovým	n modelovaním d	a ich metódami.	
Language: Slo	vak				
Remarks:					
Evaluation his	tory: ()				
A	B	С	D	Е	FX
0.0	0.0	0.0	0.0	0.0	0.0
	loc. Ing. Jan Kri				- • •
	ion: 31.03.2014	,			
	orof. Ing. Darina	Ondrušová, P	hD.		
<i>1</i>	<i>,</i> ,	,			