## Information sheet for the course Selected Chapters from Experimental Modal Analysis

University: A	University: Alexander Dubček University of Trenčín								
Faculty: Facul	ty of Industrial	Technologies in	Púchov						
Course unit co	ode: MI-I-PV-4	8	Course unit ti Experimental	<b>tle:</b> Selected Ch Modal Analysis	apters from				
Type of course	e unit: optional								
Planned types, learning activities and teaching methods:									
Teaching method:									
- face to face method.									
This subject represents one of the subjects relating to the final state exam.									
Number of credits: 2									
Recommended semester:									
the $4^{th}$ semester in the $2^{nd}$ year of the full-time form of study,									
the 6 <sup>th</sup> semes	the 6 <sup>th</sup> semester in the 3 <sup>rd</sup> year of the part-time form of study.								
<b>Degree of study:</b> the 2 <sup>nd</sup> degree of study (Engineering degree)									
Course prerequisites:									
accomplishment of all compulsory as well as optional subjects with the reference to the given study									
programme and the study field involving MI-I-PV-23F (Experimental Modal Analysis).									
Assessment methods:									
suueni is ooliged to be present at the lessons with the reference to specifications introduced in the study rules for the given study programme. He/she is also obliged to solve all predetermined tasks leading to									
successful accor	successful accomplishment of the given subject because this subject is one of the other subjects which are								
closely connecte	d with successful	accomplishment	of the final state ex	xam.	, in the second s				
Learning outc	omes of the cou	rse unit:							
Student is able t	o solve the specif	ic tasks using ba	sic or fundamenta	l principles relati	ng to knowledge on				
the natural or forced vibration of solid body systems and moreover, student can measure or determine the									
vibrations by help of Pulse 11 equipment. Furthermore, student increases his/her chance to accomplish									
the final state ex	am ajter.								
Course conten	lls:								
- analytical mechanics - natural and forced vibrations of solid body with 1 degree of freedom									
- natural and forced vibrations of solid body with "n" degrees of freedom									
- natural and forced vibrations of 1-D continuum – longitudinal, torsional and bend vibrations of									
the beam system									
- natural and forced vibrations of 2-D continuum – flat plate									
- basic principles relating to theory of vibrations for non-linear system with one degree of freedom									
- Pulse 11 – measurement system									
- Fuise -	l or required lif	aratura							
Recommended of required meralure. Trebuňa E Šimčák E · Príručka experimentálnej mechaniky TU Košice 2007 ISBN 070 80 8073 816 7									
Starek L.: Vyššia dvnamika. SVŠT Bratislava. 1985.									
Harrison, H.R. – Nettleton, T.: Advanced Engineering Dynamics, John Wiley, London, 1997.									
Brdička, M. – Hladík, A: Teoretická mechanika, Academia, Praha, 1987.									
Language: Slovak									
Remarks: —									
Evaluation his	tory: /Grading	system/							
Α	B	С	D	E	FX				

Excellent	Laudable	Good	Accepted results	Pass	Fail				
Lecturers: prof. Ing. Ján Vavro, PhD.									
Last modification: 31.03.2014									
Supervisor: prof. Ing. Darina Ondrušová, PhD.									