Information sheet for the course: Technology of Material Processing I

	e: Technology of Material Processing I					
University: Alexander Dubček Univers						
Faculty: Faculty of Industrial Technologies in Púchov						
Course unit code: MI-PV-B-6	Course unit title: Technology of Material					
	Processing I					
Form, scope and method of educational activity:						
Form of study: Lecture / Seminar / Laboratory tutorial						
Recommended number of lessons (hours):						
Weekly: 2 / 0 / 2 During the semester: 24 / 0 / 24 Method of study: attendance method						
Number of credits: 5						
Recommended semester: 2.						
Degree of study: The 1st degree of study						
Course prerequisites:						
Assessment methods:						
Assessment during the semester:						
Summary assessment of work results dur	ring the semester $= 40$ points					
During the semester, students prepare ter	rm papers related to the lectured subject. Students take					
a semester examination from individual thematic areas and a final exam.						
A student who obtains at least 20 points	in the interim evaluation can apply for the exam.					
-						
Final assessment:						
Assessment of exam results = 60 points - to successfully pass the exam, it is necessary to						
obtain minimum 30 points.						
Grading scale:						
Grade A: 91 – 100 points						
Grade B: 81 – 90 points						
Grade C: 71 – 80 points						
Grade D: 61 – 70 points						
Grade E: 55 – 60 points						
Grade FX: less than 55 points						
Learning outcomes of the course unit:						
	tical and practical knowledge of technologies and					
	ustry for the production of semi-finished products and					
	an overview of the most used production processes in					
• • •	He knows how to apply the acquired knowledge from					
the mentioned areas in their creative activ	vity.					
Course contents:						
	nold. Model devices. Molding compounds.					
Melt solidification. Inflow systems. Anti	-shrinkage processes. Melt preparation.					
Casting.						
Progressive methods of production of castings. Centrifugal casting, under pressure, under						
vacuum.						
Production of precision castings. Defects of castings and their quality control.						
Weldability.						
Welding by flame, electric arc (manual coated electrode, in protective gas atmospheres, under						
flux), under molten slag, electric resistance, cold pressure, friction.						
Diffusion welding, ultrasonic, forge, explosion.						
Soldering technology.						
Thermal separation of metals.						
Recommended of required reading:						
LETKO, I., MEŠKO, J., VRÁBEL, P.: Priemyselné technológie I. 1.vydanie. ZUSI Žilina.						
2001. ISBN 80-968605-1-8.	2001. ISBN 80-968605-1-8. LETKO, I., MEŠKO, J., PILC, J., STANČEKOVÁ, D.: Priemyselné technológie II. 1.					
-1177VO = MUSVO = DHO = STAN	$ I \rangle I \rangle$					

vydanie. ZUSI Žilina. 2002. ISBN 80-968605-3-4.							
E-learning TnUAD.							
Language:							
English							
Remarks:							
Compulsory elective course							
Evaluation history: 0							
Total number of graded students:							
A	В	С	D	E	FX		
0.0	0.0	0.0	0.0	0.0	0.0		
Lecturers: Ing. Mariana Janeková, PhD., Ing. Andrej Dubec, PhD.							
Last modification: 31.08.2022							
Supervisor: doc. Ing. Jan Krmela, Ph.D.							