

Information sheet for the course Technology of Production and Treatment of Polymeric Materials

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>	
Course unit code: <i>MI-P-33</i>	Course unit title: <i>Technology of Production and Treatment of Polymeric Materials</i>
Type of course unit: <i>compulsory</i>	
Planned types, learning activities and teaching methods: <i>Lecture: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Seminar: 1 hour weekly/13 hours per semester of study; face to face</i> <i>Laboratory tutorial: 2 hours weekly/26 hours per semester of study; face to face</i>	
Number of credits: <i>6</i>	
Recommended semester: <i>5th semester in the 3rd year full-time</i> <i>5th semester in the 3rd year part-time</i>	
Degree of study: <i>the 1st degree of study (Bachelor's degree)</i>	
Course prerequisites: <i>none</i>	
Assessment methods: <i>Elaboration of semestral project, 100 % participation at laboratory tutorial, examination (writing and oral part).</i>	
Learning outcomes of the course unit: <i>Student has a basic knowledge about polymeric materials, their structure, properties, utilization as well as technologies of processing and production of products from polymers.</i>	
Course contents: <i>1. Basic terms from area of polymeric materials.</i> <i>2. Production techniques of polymers – polymerizations, polyadditions, polycondensations.</i> <i>3. Structure and properties of polymers.</i> <i>4. Distribution of polymers.</i> <i>5. Technological processes of realization of polymerizations.</i> <i>6. Calendering of polymeric materials.</i> <i>7. Extrusion of polymeric materials.</i> <i>8. Blow molding of polymeric materials.</i> <i>9. Press molding and compression molding of polymeric materials.</i> <i>10. Injection molding of polymeric materials.</i> <i>11. Coating, casting, deposition of polymeric materials.</i> <i>12. Impregnation and rubberizing.</i> <i>13. Additional technologies for processing of polymers.</i>	
Recommended of required reading: <i>LIPTÁKOVÁ, T. a kol.: Polymérne konštrukčné materiály. Žilina: ŽU, 2012.</i> <i>CHRÁSTOVÁ, V. – BORSIG, E.: Makromolekulová chémia. Bratislava: STU, 1996.</i> <i>ALEXY, P.: Procesy spracovania polymérov, STU Bratislava 2011</i> <i>KUTA, A.: Technologie a zařízení pro spracování kaučuků a plastů, VŠCHT PRAHA, 2011,</i> <i>DUCHÁČEK, V.: Polymery, výroba, zpracování, použití. VŠCHT Praha, 2011.</i> <i>ZEMAN, L.: Vstřikování plastů, BEN Praha, 2009.</i>	
Language: <i>Slovak</i>	
Remarks: <i>none</i>	
Evaluation history: <i>Number of students: 0</i>	

A	B	C	D	E	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Lecturers: <i>doc. Ing. Petra Skalková, PhD.</i>						
Last modification: <i>31.03.2014</i>						
Supervisor: <i>prof. Ing. Darina Ondrušová, PhD.</i>						