

Information sheet for the course Testing Methods and Certifications

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of Industrial Technologies in Púchov</i>	
Course unit code: <i>MI-I-V-4</i>	Course unit title: <i>Testing Methods and Certifications</i>
Type of course unit: <i>optional</i>	
Planned types, learning activities and teaching methods: <i>Lecture: 0</i> <i>Seminar: 2 hours weekly/26 hours per semester of study; face to face</i> <i>Laboratory tutorial: 0</i>	
Number of credits: <i>2</i>	
Recommended semester: <i>2nd semester in the 1st year full-time</i> <i>2nd semester in the 2nd year part-time</i>	
Degree of study: <i>the 2nd degree of study (Engineer's degree)</i>	
Course prerequisites: <i>none</i>	
Assessment methods: <i>During the semester in a seminar is 5 control tests after 5 points, gaining 12 points of the 25 possible points. To obtain the evaluation and must be obtained at least 22 points, to obtain the evaluation B at least 21 points on the C evaluation of at least 18 points, the minimum evaluation 15 points D and E evaluation at least 12 points.</i>	
Learning outcomes of the course unit: <i>The student has a systematic and comprehensive knowledge of the set of physical-mechanical, analytical and human-environmental tests, examinations and conditions for the verification of the quality of textile and clothing products and polymeric materials. The student can focus on standards and technical regulations in the Slovak Republic, the basic legislation tied to trade, international certification specifications, European legislation and commercial certification systems in Europe.</i>	
Course contents: <i>1. Certification of conformity tests.</i> <i>2. STN and international standards.</i> <i>3. The accreditation of testing laboratories and products in Slovakia.</i> <i>4. Testing the physical, mechanical and chemical properties of the fibers.</i> <i>5. Testing the physical, mechanical and chemical properties of plastics.</i> <i>6. General Principles of testing, technical standards.</i> <i>7. Specifics of standardized testing procedures polymeric materials.</i> <i>8. Principles of measurement, validation, calibration and statistical procedures in conformity tests.</i> <i>9. Physical and mechanical tests clothing and home textiles.</i> <i>10. Physical and mechanical tests of technical and specialty textiles.</i> <i>11. The human-ecological aspects of quality fabrics, analytical methods for testing textiles.</i> <i>12. Standardized assessment procedures and flammability resistance of polymers against the action of the external environment.</i>	

Recommended of required reading:

1. STN 80 0055 Textilie. Limitné koncentrácie zdraviu škodlivých látok a metódy ich stanovenia.
2. Zákon o technických požiadavkách na výrobky a o posudzovaní zhody výrobkov.
3. Jahňátek, L, Grom, J., Náplava A.: *Metrológia a skúšanie plastov*, STU Bratislava, 2006.
4. Ducháček V., Hrdlička Z.: *Gumárenské suroviny a jejich spracování*, Praha VŠCHT, 2009. 200 s. ISBN 978-80-7080-713-2.
5. Príslušné STN normy.

Language: *Slovak***Remarks:****Evaluation history:**

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Lecturers: *doc. Ing. Pavol Lizák, PhD., doc. Ing. Petra Skalková, PhD.***Last modification:** *31.03.2014***Supervisor:** *prof. Ing. Darina Ondrušová, PhD.*