

Information sheet for the course Cardiagnostics

University: Alexander Dubček University of Trenčín					
Faculty: Faculty of special technology					
Course unit code: SaOA/B/2-17/d			Course unit title: Cardiagnostics		
Type of course unit: compulsory					
Planned types, learning activities and teaching methods: Lecture 2 hours weekly, seminar 2 hours weekly (on-site method)					
Number of credits: 5					
Recommended semester: 5 th semester in the 3 rd year (full-time) 6 th semester in the 3 rd year (part-time)					
Degree of study: I. (bachelor)					
Course prerequisites: SAOA/B/1-81/d The basics of electricity and electronics					
Assessment methods: 100 % attendance - seminars, fulfillment of laboratory exercises goals, 60 % attendance – lectures, proving the knowledge of subject content in written and oral examination.					
Learning outcomes of the course unit: Student has a cross-sectional view and knowledge about diagnostics methods of mechanical and electronics components of the cars. Furthermore, acquires knowledge and become familiar with diagnostics of engine, transmission and chassis, safety systems and electric equipments of cars, trucks and motorcycles.					
Course contents: Basic terms. Diagnostics of mechanical systems of vehicles. Diagnostics of electrical and electronics components. Communication standards in diagnostics (OBD, OBD2, EOBD) . Serial diagnostics of the electronic control units. Dashboard diagnostics. Diagnostics of safety systems, alarms, central locks and comfort systems. Parallel diagnostics with exploitation of digital storage oscilloscope.					
Recommended of required reading: FREIWALD, A.: Diagnostika a opravy automobilov II. Druhé vydanie. Vydavateľstvo KONTAKT PLUS. Bratislava 2008. ISBN 987-80-88855-77-4. VLK, F. : Zkoušení a diagnostika motorových vozidel, 2. vydání, Nakladatelství a vydavatelství VLK, Brno 2005, ISBN 80 – 239 – 3717 – 0 DENTON, T. : Advanced Automotive Fault Diagnosis, 2. edition, Elsevier Butterworth-Heinemann, Oxford 2006, ISBN 978-0-75-066991-7					
Language: Slovak					
Remarks: Compulsory subject					
Evaluation history Total number of students being evaluated: 154					
A	B	C	D	E	FX
4,55	13	19,5	26,65	37,05	0
Lecturers: prof. Ing. Jiří Stodola, DrSc. – lecturer Ing. Andrej Lysák, PhD. - instructor					
Last modification: 15.2.2014					
Supervisor: prof. Ing. Alexej Chovanec, PhD., guarantee of the study program „Vehicles Maintenance and Repair“					