Information sheet for the course
Premises Technology

University: *Alexander Dubček University of Trenčín*

Faculty: *Faculty of special technology*

Course unit code: *ŠST/B/2-36/d* | **Course unit title:** *Premises Technology*

Type of course unit: *compulsory*

Planned types, learning activities and teaching methods:
2 hours of lectures per week, 1 hour laboratory exercise per week

Number of credits: *3*

Recommended semester: *6th semester in the 3rd year of study /full-time /*
8th semester in the 4th year of study /part-time /

Degree of study: *I. (bachelor)*

Course prerequisites: *none*

Assessment methods:
100% participation in laboratory exercises, the attainment of goals laboratory exercises, min. 60% attendance at lectures, demonstrate knowledge of subject content in written and oral examination.

Learning outcomes of the course unit:
The student will acquire a comprehensive overview of the basic service, treatment and diagnosis of various technical systems of mobile technology. Furthermore communicate the operational characteristics and influences acting on the condition, reliability, safety and economy of operation of motor vehicles.

Course contents:
The operating features and characteristics of motor vehicles. Impacts on condition, reliability, safety and economy of operation of motor vehicles. Theoretical fundamentals of technical diagnostics. Operation, care and technical diagnostics of individual systems for internal combustion engines of motor vehicles, cooling system, lubrication system, fuel system, the transmission of motor vehicles, clutch, gearbox, auxiliary transmission, transfer case (of rear drive axle, differential), coupling and shafts, frames, axles, wheels, tires, shock absorbers, steering, power steering, brake system. Operation, care and technical diagnostics of electrical systems for motor vehicles. Rechargeable batteries, alternators, starters, el. ignition system, lighting, control and signaling equipment, electrical equipment.

Recommended of required reading:
FREIWALD, A. Diagnostika a opravy automobilov II. Druhé vydanie. Vydavateľstvo
VLK, F. Zkoušení a diagnostika motorových vozidel, 2. vydání, Nakladatelství a vydavatelství VLK, Brno2005, ISBN 80 - 239 - 3717 - 0
JAMRICHOVÁ, Z., STODOLA, J., STODOLA, P. Diagnostika strojov a zariadení. Vydavateľstvo EDIS, Žilina 2011. ISBN 978-80-554-0385-4.

Language: *Slovak*

Remarks:

Evaluation history
Total number of students assessed: 117

A	B	C	D	E	FX
20,51	23,08	4,19	12,82	9,4	0,0

Lecturers: *Assoc.prof. Ing. Zuzana Jamrichová, PhD.*
Ing. Monika Pilková, PhD.

Last modification: *15.4.2014*

Supervisor: *prof. Ing. Jiří Balla, CSc., guarantee of the study program Special Mechanical Engineering Technology*