

Részletes tantárgyprogram és követelményrendszer

Óbuda University Bánki Donát Faculty of Mechanical and Safety Engineering		Institute of Mechatronics and Vehicle Engineering			
Course title and code: <i>Expert Knowledge</i>		Credits: 4			
Full-time, 2nd semester					
Faculties in which the subject is taught: mechatronics engineer BSc					
Supervised by:		Instructors:		Judit Dr. Lukács	
Prerequisites conditions:					
Lessons per week:	Theory: 2	Practice (in Auditorium): 0	Laboratory: 0	Consultation:	
Exam type (s,v,f):	midterm test				
Syllabus					
<i>Aim:</i> This course aims the presentation of the knowledge of motor vehicle experts in the light of expert practice.					
Topics:				Lac.	Lab
The concept of an expert, the content of an expert opinion.				2	0
Methods for determining and assessing the condition of road vehicles, in particular passenger cars.				2	0
Criteria to be taken into account when determining technical and roadworthiness.				2	0
Computerised vehicle valuation systems in Europe. Computerised systems for vehicle repair estimation in Europe				2	0
.Basic knowledge of traffic law, insurance				2	0
Manual and computerised methods of vehicle collisions.				2	0
Summary, Test 1				2	0
Intro.du.tion to the PC CRASH program. Introduction to Virtuál - CRASH program.				2	0
Implementation of active and passive safety in road vehicles				2	0
Basics of originality test, practical implementation				2	0
Basic knowledge of traffic engineering and traffic management				2	0
Different solutions of vehicle sensors and their application				2	0
Summary, Test 2.				2	0
Test retake				2	0
Semester requirements					
Theory tests.					

Method of the replacement:

During the semester, the signature requirements can be **replaced** in the following cases: test failed; illness.

Calculation of the final grade:

All main areas of the course are evaluated by test papers. The course is to be considered successfully executed if and only if test result reaches a level of 51%.

The grades are as follows:

- 0 - 50% (1)
- 51 - 69% (2)
- 70 - 79% (3)
- 80 - 89% (4)
- 90 – 100% (5)

In the case of an unsuccessful final examination, a replacement is possible within the first 10 working days of the examination period, within the framework of a fee-based Signature Replacement Examination.

In all matters not regulated in this document, the provisions of the Study and Examination Regulations and the Study Regulations of Óbuda University shall apply.

Exam method: midterm test

Literature:**Mandatory:**

lecture notes

Offered:

Struble, D. E., & Struble, J. D. (2020). *Automotive accident reconstruction: practices and principles*. CRC Press.