

Tárgytematika / Course Description

Operating Motor Vehicles I

GKNB_KVTA021

Tárgyfelelős neve /

Teacher's name: dr. Polák József László

Félév / Semester: 2026/27/1

Beszámolási forma /

Assesment: Vizsga

Tárgy heti óraszám /

Teaching hours(week): 2/0/0

Tárgy féléves óraszám /

Teaching hours(sem.):

OKTATÁS CÉLJA / AIM OF THE COURSE

TANTÁRGY TARTALMA / DESCRIPTION

Lecture topics

1	Motor Vehicle Maintenance Definitions.	
2	Causes of vehicle wear I.	
3	Causes of vehicle wear II.	
4	Component cleaning methods. Materials and tools for washing and mechanical cleaning.	
5	Component Repair Methods I.: Machining, methods	
6	Component Repair Methods II: Bonding and plastic filling (coating) methods	
7	Component Repair Methods III.: Welding repair methods.	
8	Component Repair Methods IV.: Metal powder spraying and galvanic repair methods. Plasma spraying.	
9	Pre-delivery inspections, warranty inspections, I. and II. s. technical inspections.	
10	Official technical inspections. Factors and indicators determining the frequency of maintenance.	
11	Determining the frequency of maintenance based on technical reliability.	
12	Maintenance systems. Reliability of vehicle operation.	
13	Service v. technology, materials and tools for vehicle care operations.	

14	Summary, exam consultation	
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Laboratory practice topics

	Topic	Teaching week
1	Practice cutting repair methods.	3
2	Adhesive methods and practice of plastic filling.	4
3	Welding repair of steel parts	5
4	Repair of welding of cast iron parts.	6
5	Welding repair of aluminum parts.	7

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

Exam requirements: The exam is written and requires a completion of at least 50%.

Point boundaries: 0 - 59 % (1) 60 -69 % (2) 70 -79 % (3) 80 -89 % (4) 90 -100 % (5)

Laboratory practice : During the semester, all students must complete 10 hours of laboratory practice.

The number of exercises is 5, the duration of one exercise is 2 hours.

Participation in the exercises (practice) is mandatory.

The condition for the semester's signature is the completion of homework (2 pieces) issued on the topic of vehicle maintenance.

*For a time max. 12 students can apply. **Re-registration is possible no later than the day before the internship, in consultation with the presenter! Outside the announced dates, the exercises cannot be replaced, except for the proven absence***

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL