

Budapest University of Technology and Economics

Faculty of Transportation Engineering and Vehicle Enginee

| Fixing an | d sealing | | | | |
|---|--|---|---|---|--|
| Kötés és tömítéstechnológia | | | | | |
| BMEKOGGM650 | 4. Evaluation type | exam grade | 5. Credits | 4 | |
| 2 (10) Lecture | 0 (0) Practice | 2 (11) Lab | v | | |
| Vehicle Engineering MSc (J) | 8. Role | Specialization (sp) at Vehicle Engineering MSc (J) | | | |
| or fulfilling the req | uirements of the s | ubject | | 120 | |
| 56 | Preparation for seminars | 14 | Homework | 12 | |
| 24 | Midterm preparation | 4 | Exam preparation | 10 | |
| Department of Automotive Technologies | | | | | |
| Dr. Bán Krisztián | | | | | |
| Dr. Markovits Tamás, dr. Göndöcs Balázs | | | | | |
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| | Kötés és tömítésteck BMEKOGGM650 2 (10) Lecture Vehicle Engineering MSc (J) or fulfilling the req 56 24 Department of Aut Dr. Bán Krisztián | Kötés és tömítéstechnológia BMEKOGGM650 2 (10) Lecture 0 (0) Practice Vehicle Engineering MSc (J) or fulfilling the requirements of the s Preparation for seminars Midterm preparation Department of Automotive Technolo Dr. Bán Krisztián | BMEKOGGM650 4. Evaluation type exam grade 2 (10) Lecture 0 (0) Practice 2 (11) Lab Vehicle Engineering MSc (J) or fulfilling the requirements of the subject 56 Preparation for seminars 24 Midterm preparation Department of Automotive Technologies Dr. Bán Krisztián | Kötés és tömítéstechnológia BMEKOGGM650 4. Evaluation type exam grade 5. Credits 2 (10) Lecture 0 (0) Practice 2 (11) Lab Vehicle Engineering MSc (J) or fulfilling the requirements of the subject 56 Preparation for seminars 24 Midterm preparation Department of Automotive Technologies Dr. Bán Krisztián | |

14. Description of lectures

Advanced joining technologies used in vehicle productions. Laser joining and other processes. Methods and tools for testing the defects of the joints.

Materials, constructions and assembly technologies of the applied static and dynamic seals in vehicle components. Methods and tools of tightness test and troubleshooting.

15. Description of practices

16. Description of labortory practices

Realisation and test of the joining techniques.

Implementating sealing solutions and performing sealing test.

Development of adhesive technology in independent student task.

17. Learning outcomes

A. Knowledge

• Understanding the presented sealing and joining processes.

B. Skills

Ability to develop the technologies.

C. Attitudes

- Openness to the new possibilities of the field.
- D. Autonomy and Responsibility
 - Participate in individual problem solving.

18. Requirements, way to determine a grade (obtain a signature)

During the semester 1 midterm test has to be completed with more the 50 % of the maximal points. In the semester participation in labs is mandatory and the planning task is required to be delivered to an acceptable level. The condition of the signature is the correspondingly qualified midterm exam, fulfilment of all lab activities and task submission. The result of the exam give the basis for the final grade.

19. Opportunity for repeat/retake and delayed completion

The midterm test can be retaken once. The planning task can be delivered once additionally. One lab can be done once additionally.

20. Learning materials

| Silves and brescritation notes | Slides and | presentation notes |
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| Effective date | 10 October 2019 | This Subject Datasheet is valid for | Inactive courses |
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