SYLLABUS

1. Course title:

TRANSPORT AND VERTICAL TRANSPORT

2. Code:

LRUDTIZ

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

Mandatory

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1 | 5

9. Weekly contact hours and student workload:

	Semester (1)	Semester (2) (for two-semester courses)		Workload: (hours)
9.1. Lectures	4		Classes:	56,25
9.2. Seminars	0		Individual work:	98,50
9.3. Laboratory / Practice classes	1		In total:	154,75

10. Faculty:

Mining, Geology and Civil Engineering

11. Department/study program:

Mining Engineering

12. Lecturer:

PhD Sunčica Mašić Full Professor

13. Course aims:

Provide knowledge on the basic principles of operation and methods for calculating the main parameters of continuous and cyclic conveyors used in mines and export facilities. Improve their skills related to continuous work throughout the entire year.

14. Learning outcomes:

At the end of the semester/course, successful students, who have continuously fulfilled their obligations throughout the entire teaching period, will be able to apply and explain phenomena from the areas covered in the program using the knowledge they have acquired.

15. Course content:

Syllabus Presentation. Principles of operation of transporters. Basic theories of transport systems and drive reliability. Evaluation of technical-economic parameters in the selection phase of transport variants in mining. Properties of materials being transported. Capacities of transport equipment. Bucket conveyor transport. Belt conveyor transport. Hydrotransport. Air (pneumatic) transport. Locomotive transport in underground extraction of mineral deposits. Truck transport in surface extraction of mineral deposits. Scraper transport. Aerial ropeway transport. Monorail transport with endless rope. Koepe system.

16. Learning methods:

Lectures, exercises, consultations - lectures and exercises are interactive and practical in nature.

17. Assessment methods:

Methods of student knowledge assessment include the following criteria:

- **Attendance at lectures and exercises**
- **Tests on course material**
- **Task completion**
- **Final exam**

Based on these criteria, at the end of the course, the instructor will determine the final grade by assigning points to each activity.

18. Assessment components:

Grading and Evaluation System
Point Distribution:

- **Attendance at lectures and exercises: 10 points**
- **Tests: 36 points**
- **Activity: 4 points**
- **Pre-exam activities: 50 points**
- **Final exam: 50 points**
- **Total: 100 points**

Final Student Success Evaluation (ECTS Comparable Grading Scale):
a) 10 (A) – Outstanding performance with no or minimal errors, 95-100 points
b) 9 (B) – Above average, with some errors, 85-94 points
c) 8 (C) – Average, with noticeable errors, 75-84 points
d) 7 (D) – Generally good, but with significant shortcomings, 65-74 points
e) 6 (E) – Meets minimum criteria, 54-64 points
f) 5 (F, FX) – Does not meet minimum criteria, less than 54 points

19. Mandatory reading list:

Sunčica Mašić Sadudin Hodžić Transport fluida I“, Tuzla 2008;
Sunčica Mašić, Nedžad Alića „Hidraulički i pneumatski transport materijala u rudarstvu“, Tuzla 2011;
Sunčica Mašić: Ciklični transport, Univerzitetski udžbenik, Univerzitet u Tuzli
Hodžić S. «Transport u rudarstvu»«,udžbenik, Univerzitet u Tuzli, Tuzla, 1998. god.;

20. Additional reading list:

21. Web sources:

22. Applicable from the academic year:

2025/26.

23. Adopted in the Faculty/Academy session: