

SYLLABUS

1. Course title:

MINING SAFETY

2. Code:

LRUDSR

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

Mandatory

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1

7

9. Weekly contact hours and student workload:

	Semester (1)	Semester (2)	(for two-semester courses)		Workload: (hours)
9.1. Lectures	3			Classes:	45,00
9.2. Seminars	1			Individual work:	81,97
9.3. Laboratory / Practice classes	0			In total:	126,97

10. Faculty:

Mining, Geology and Civil Engineering

11. Department/study program:

Mining Engineering

12. Lecturer:

PhD Zvezdan Karadžin Full Professor

13. Course aims:

The goals of the course are:

- To impart knowledge and practical experience related to safety and protection in mining, with a focus on both domestic and international examples.

- To improve students' communication skills in both written and verbal forms.
- To enhance students' skills related to continuous work throughout the year.
- For students to understand the shift in the education system, where they are at the center of the learning process, in contrast to the old-fashioned approach where the teacher is the focal point. Additionally, students are encouraged to actively engage in all course activities and obligations from the start and establish two-way communication with the professor.

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 equipped to:

- Understand the significance of this course and the related issues, both global and regional, as well as existing initiatives and methods for overcoming problems in the field of mining safety.
- Use available literature related to solving various problems of this course.
- Pass the final exam in the first available exam sessions at the end of the semester.

15. Course content:

Legal regulations in the field of mining safety

- Ergonomics and safety aspects of mining production
- Workplace injuries and occupational diseases
- Technical measures for protection against exposure to toxic gases and radioactive pollutants
- Technical measures for protection against endogenous and exogenous fires
- Methane in underground mines
- Mine dust
- Rock bursts in mines
- Protection against the inflow of surface and groundwater into underground mine workings
- Technical measures in blasting operations in mines with underground and surface exploitation
- Rescue services

16. Learning methods:

- Lectures using multimedia tools, with active participation and student discussions
- Practical and classroom exercises
- Preparation and presentation of individual or group activities – seminar papers
- Part of the course may be organized through distance learning, with specific details regulated by a Senate decision
- Consultations

17. Assessment methods:

The methods of evaluating students include the following criteria:

1. Attendance and participation in lectures and exercises
2. Seminar paper
3. Final exam

A total of two tests will be taken. The final test represents a synthesis of the previous tests.

In addition, students will work on seminar papers in areas designated by the course instructor and publicly present them to their peers, aiming to improve their writing and presentation skills, following the methodology defined by the course instructor.

18. Assessment components:

The exam grade is based on the total number of points the student earns through fulfilling pre-exam obligations and taking the exam, in accordance with the quality of acquired knowledge and skills. The total is a maximum of 100 points and is determined according to the following point scale:

- Attendance at lectures and exercises: 0-10 points
- Activity: 0-10 points
- Tests: 0-20 points
- Seminar paper: 0-15 points
- Pre-exam activities: 55 points

FINAL EXAM: up to 45 points

The final success of the student, after all prescribed forms of knowledge assessment, is evaluated and graded according to a scale comparable to the ECTS grading system as follows:

- 10 (A) - Excellent performance with no or minimal mistakes, worth 95-100 points
- 9 (B) - Above average, with some mistakes, worth 85-94 points
- 8 (C) - Average, with noticeable mistakes, worth 75-84 points
- 7 (D) - Generally good, but with significant deficiencies, worth 65-74 points
- 6 (E) - Meets the minimum criteria, worth 54-64 points
- 5 (F, FX) - Does not meet the minimum criteria, less than 54 points

19. Mandatory reading list:

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| 1. | Adilović, A., Karadžin, Z. Potencijalne opasnosti u podzemnim rudnicima, Tuzla, 2016 godina |
| 2. | Uljić H. : Sigurnost i zaštita u rudarstvu, Tuzla, 1988 |

20. Additional reading list:

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21. Web sources:

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22. Applicable from the academic year:

2025/26.

23. Adopted in the Faculty/Academy session:

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