SYLLABUS

1. Course title:

WELL MINING OF MINERAL RAW MATERIALS

2. Code:

LRUDBEMS

3. Cycle of study:

1

4. ECTS credits:

4

5. Type of course:

Mandatory

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1 6

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	0		Individual work:	59,52	
9.3. Laboratory / Practice classes	1		In total:	104,52	

10. Faculty:

Mining, Geology and Civil Engineering

11. Department/study program:

Mining Engineering

12. Lecturer:

PhD Adnan Hodžić Full Professor

13. Course aims:

Here's the translation of the revised text into English:

- Introduce students to the basics of drilling exploitation of different types of mineral raw materials;
- Based on theoretical foundations and practical examples, students should understand, analyze, and apply the

acquired knowledge to solve specific problems;
- **Improve communication skills in both written and verbal forms;**
- **Enhance continuous student work throughout the entire year, ensuring they actively participate in all educational activities and responsibilities from the start of the course;**
- **Establish two-way communication between students and the professor.**

14. Learning outcomes:

Here's the translation of the provided text into English:
At the end of the semester/course, successful students who have continuously fulfilled their obligations throughout the entire teaching period will be capable of:
- **Using available literature related to solving various problems of this course;**
- **Solving problems of varying complexity individually or in teams and presenting them in written or verbal form;**
- **Understanding the significance of this course in solving various practical problems;**
- **Passing the final exam during the first exam period at the end of the semester.**

15. Course content:

Here's the translation of the provided list into English:
- **Drilling, well, basic concepts**
- **Well completion for obtaining mineral raw materials**
- **Methods of destruction of solid mineral raw materials**
- **Drilling exploitation of solid mineral raw materials**
- **Well gasification of coal**
- **Well exploitation of salt deposits**
- **Well exploitation of industrial, drinking, thermal, and mineral waters**
- **Basics of oil exploitation**
- **Gas exploitation**
- **Development of exploitation fields**
- **Drilling exploitation of mineral raw materials from water bodies**

16. Learning methods:

Here's the translation of the provided text into English:
In order to effectively conduct the course and achieve the expected course objectives and student competencies by the end of the semester, various teaching methods are used in the course:
- **Lectures,**
- **Laboratory (field) exercises,**
- **Team/group projects (seminar papers), and**
- **Short tests covering the essence of the material studied by areas or teaching units.**

17. Assessment methods:

Lectures, exercises, consultations. The student is required to attend lectures and laboratory or field exercises regularly throughout the entire semester. The instructor and assistant will record and monitor the student's attendance during the semester. During the semester, the student can miss a maximum of three lectures or three laboratory/field exercises without justification.
4o mini

18. Assessment components:

The methods of assessing students include the following criteria:
- **Activity: 2 points**
- **First partial exam: 20 points**
- **Second partial exam: 20 points**
- **Seminar paper: 8 points**
- **Pre-exam activities: 50 points**
- **Final exam: 50 points**
- **Total: 100 points**

The final success of the student after all forms of knowledge assessment will be evaluated and graded using a system comparable to the ECTS grading scale as follows:
a) 10 (A) – Outstanding performance with no or minor errors, carries 95-100 points;
b) 9 (B) – Above average, with some errors, carries 85-94 points;
c) 8 (C) – Average, with noticeable errors, carries 75-84 points;
d) 7 (D) – Generally good, but with significant shortcomings, carries 65-74 points;
e) 6 (E) – Meets the minimum criteria, carries 54-64 points;
f) 5 (F, FX) – Does not meet the minimum criteria, less than 54 points.

19. Mandatory reading list:

Tomić, B.; Sušić, A.: ''Bušotinska eksploatacija mineralnih sirovina – Izgradnja bušotina'', Tuzla, 2007.
Tomić, B.; Hodžić, A.: ''Površinska i bušotinska eksploatacija mineralnih sirovina'', RGGF, Tuzla, 2004
Zelenika, M.: ''Tehnologija izrade bušotina'', Geotehnički fakultet Varaždin, Sveučilište u Zagrebu, 1995.
Hrković, K.; Bizjak, R.: ''Teorijski aspekti i primjena istražno-eksploatacionog bušenja – Tehnika i tehnologija'', DIT NIS-Naftagas Novi Sad, Novi Sad, 2002.

20. Additional reading list:

21. Web sources:

22. Applicable from the academic year:

2025/26.

23. Adopted in the Faculty/Academy session: