

## SYLLABUS

**1. Course title:**

TECHNICAL AND ARCHITECTURAL ROCK STONE

**2. Code:**

LRUDTAK

**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

4

**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: 82,42
9.3. Laboratory / Practice classes	1			In total: 127,42

**10. Faculty:**

Mining, Geology and Civil Engineering

**11. Department/study program:**

Mining Engineering

**12. Lecturer:**

PhD Nedžad Alić Full Professor

**13. Course aims:**

Introducing students to the basics of the technology of extraction and processing of architectural and technical stone and its application in various types of activities. The goal is for students to understand the changes in the education system, where they are at the center of the teaching process, as opposed to the traditional approach with the teacher being the

focus, and to actively participate in all educational activities and responsibilities from the very beginning of the course, establishing two-way communication with the professor/assistant.

#### 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:

- Use supplementary available literature related to solving various problems of this course;
- Solve problems of varying complexity, both individually and in teams, and present them in written or related form;
- Understand the significance of this course in solving various problems in practice/process industry;
- Pass the final exam during the first available exam sessions at the end of the semester.

#### 15. Course content:

**Introduction:** Presentation of the course syllabus for the subject Technical and Architectural Stone (literature, course content, course objectives, communication expectations at the end of the course, teaching methods, and assessment methods, additional information for the course).

**Discovery of Architectural Stone Deposits:** Discovery using special types of explosive materials – blasting; opening of deposits; exploitation using modern wire saws with optimization of techno-economic solutions for the most acceptable outcomes.

**Construction Technical Stone – Introduction:** Mining and legal regulations for acquiring exploitation rights; exploitation of technical stone; technology of final production of technical stone; quality conditions for technical stone.

**Testing the Properties of Architectural Stone.**

**Testing the Properties of Technical Stone.**

#### 16. Learning methods:

Lectures, exercises, consultations

- Lectures and exercises are interactive and practical in nature
- Seminar paper

#### 17. Assessment methods:

- Attendance and participation in lectures and exercises
- Individual projects / seminar paper
- Tests
- Final exam

At the end of the course, the final grade is determined by grading individual activities.

#### 18. Assessment components:

The total number of points is obtained by summing the maximum possible number of points from all activities during the semester:

- Activity in class: 10 points
- Attendance and participation in exercises: 5 points
- Individual project: 30 points
- Test: 5 points

Pre-exam obligations: 50 points

Final exam: 50 points

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

- a) 10 (A) – Exceptional performance with no or minor 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 the minimum criteria, 54-64 points
- f) 5 (F, FX) – Does not meet the minimum criteria, less than 54 points

#### 19. Mandatory reading list:

M. Ljubojević: Eksploatacija arhitektonskog kamena (Tuzla 1986.g.)

S. Dunda : Eksploatacija arhitektonsko-građevnog kamena(Zagreb 2003)\_dikitalni udžbenik

#### 20. Additional reading list:

- Z. Ibrišimović, A. Adilović, K. Gutić, N. Alić: Eksplozivni materijali (Tuzla 2006.g)

- Nemanja Popović: Naučne osnove projektovanja površinskih kopova (Sarajevo 1986)

---

**21. Web sources:**

---

**22. Applicable from the academic year:**

---

**23. Adopted in the Faculty/Academy session:**