SYLLABUS

1. Course title:

MINING GEOPHYSICS

2. Code:

LRUDRGF

3. Cycle of study:

1

4. ECTS credits:

4

5. Type of course:

Elective

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1 3

9. Weekly contact hours and student workload:

	Semester (1)	Semester (2)	(for two-semester courses)	Workload: (hours)	
9.1. Lectures	2		Classes:	22,5	
9.2. Seminars	0		Individual work:	78,55	
9.3. Laboratory / Practice classes	0		In total:	101,05	

10. Faculty:

Mining, Geology and Civil Engineering

11. Department/study program:

Mining Engineering

12. Lecturer:

PhD Ekrem Bektašević assistant professor

13. Course aims:

Introducing students to the basics of ECOGEOPHYSICS and geophysical exploration methods, mastering the skills of interpreting obtained measurement results, using modern equipment for conducting geophysical research, as well as tools that support the operation of the equipment itself. Tools for interpreting obtained research results, qualitative and

quantitative analysis of the obtained research results.

14. Learning outcomes:

At the end of the semester/course, successful students who have continuously fulfilled their obligations throughout the entire instructional period will be able to:

- **Utilize the available literature related to solving various problems in the field of applied geophysics,**
- **Solve problems of varying complexity, both individually and in teams, and present them in written or verbal form,**
- **Understand the importance of this course in solving different problems and relate the interpretation of obtained results to geological information, drilling data, geotechnical tests, etc.,**
- **Pass the final exam in the first exam sessions.**

15. Course content:

Introduction,
Gravimetric Research,
Magnetometric Research,
Geoelectrical Research,
Seismic Research and
Geophysical Research in Mining.

16. Learning methods:

- **Lectures, Exercises, Consultations**
- **Individual Project (Assignments)**
- **Lectures and Exercises are Interactive and Practical in Nature**

17. Assessment methods:

Student evaluation methods include the following criteria:

- **Attendance and participation in classes**
- **Tests on course material and assignments**
- **Final exam**

Based on these criteria, the instructor will assess individual activities and determine the final grade at the end of the course.

18. Assessment components:

SCORING AND GRADING SYSTEM

- **Class Attendance – 6 points**
- **Test – 40 points**
- **Activity – 4 points**
- **Pre-exam Activities – 50 points**
- **Final Exam – 50 points**
- **Total Points – 100**

The final student performance, after all forms of knowledge assessment, is evaluated using a system comparable to the ECTS grading scale as follows:
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 the minimum criteria, 54-64 points
f) 5 (F, FX) – Does not meet the minimum criteria, less than 54 points
4o

19. Mandatory reading list:

Stefanović D., Martinović S., Stanić S., 1996., Osnovi geofizike I, Univerzitetski udžbenik, Rudarsko-geološki fakultet, Beograd,
Komatina-Petrović, Ekogeofizika (Geofizika i zaštita životne sredine) Begrad, 2011. godine

20. Additional reading list:

21. Web sources:

https://www.researchgate.net/publication/292643328_Osnove_geofizickih_istrazivanja_Fundamentals_of_Geopysical_Exploration

22. Applicable from the academic year:

2025/26.

23. Adopted in the Faculty/Academy session: