

SYLLABUS

1. Course title: **Geology: modern advances and most interesting finds**
2. Course coordinator: **dr hab. Łukasz Kruszewski, professor**
3. Course lecturer: **dr hab. Łukasz Kruszewski, professor**
4. Field, type and level of studies, year of study: **geology, full-time doctoral studies, 1-4 year of study**
5. Course character: **elective-compulsory lecture**
6. Teaching method: **video conferencing**
7. Language: **English**
8. Course type and number of hours: **lecture (30 h = 15 + 15h)**
9. Estimated load of student's independent work: **3 h**
10. Total workload and number of ECTS points: **33 h, 3 ECTS**
11. Short description and main focus of the course: The course is planned to familiarize the non-geologist participants with basics of geology, with a special emphasis to dynamic geology, petrology, mineralogy, and geology-based environmental/climatology and planetary sciences. It will focus on the most interesting recent discoveries in geology, both on the Earth, Mars, and in relation to Inner and Outer Space objects.
12. References:
<https://www.sciencenews.org/topic/environment>
<https://www.sciencenews.org/topic/climate>
<https://www.sciencenews.org/topic/planetary-science>
<https://www.sciencenews.org/topic/cosmology>
13. Educational outcomes:
KNOWLEDGE: The participants will gain knowledge on what is geology, what are its purposes, where does it head and/or in which direction should it head.
PRACTICAL SKILLS: The participants will gain knowledge on what are the currently available geology-related analytical methods, which questions may they answer and which modern world issues may they resolve.
SOCIAL SKILLS: The participants will gain knowledge on how does geology and geology-related topics influence our lives. This, in particular, has to do with gas geochemistry, oceanology, and climatology.
14. Evaluation of the educational outcomes: **exam (descriptive/test type)**
15. Criteria to complete the course: at least **80%** attendance, final grade depends on the exam results.