

Title <b>(Geochemia)</b>	Code <b>1010701331010720564</b>
Field <b>Environmental Protection Technologies</b>	Year / Semester <b>2 / 3</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

obligatory course

**Assumptions and objectives of the course:**

The aim of the lectures and exercises lead within the framework of the subject is obtaining the knowledge in the field of constitution of the Earth, learning to know the natural processes occurring in the Earth and command of the skills of the rocks identification on the base of its morphological and mineral qualities, optical peculiarities and X-ray research.

**Contents of the course (course description):**

The cycle of the lectures begins with the film projection presenting creation of the Earth. Among the subjects realized in the cycle of lectures one should mention the following:

- ? the structure and composition of the Earth,
  - ? chemical composition of the rocks,
  - ? geochemical classification of the chemical elements, formation elements and minerals,
  - ? the crystal chemistry of the minerals, particularly silicates and aluminosilicates,
  - ? phenomenon of crystallization in nature and in laboratory,
  - ? magma rocks,
  - ? solid state changes, ions migration, weathering of rocks and minerals metamorphic processes
- Within the framework of the laboratories students recognize minerals on the base of its morphological qualities, optical peculiarities and X-ray methods of structural analysis.

**Introductory courses and the required pre-knowledge:**

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**Courses form and teaching methods:**

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**Form and terms of complete the course - requirements and assessment methods:**

Test and oral examination

**Basic Bibliography:**

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**Additional Bibliography:**

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