

## **Syllabus of the course GEOV103 – Introduction to mineralogy and petrography**

The course is focused at understanding of the chemistry, structure and stability of the rock-forming minerals and the most common accessory minerals. The last third of the course is devoted to the principles of the origin and classification of magmatic and metamorphic rocks.

**Obligatory textbook (pensum):** William D. Nesse - Introduction to Mineralogy

**Suggested further reading:** John D. Winter – Principles of Igneous and Metamorphic Petrology

### **Lecture topics:**

Crystal Structure

Growth of crystals and their defects

Crystal chemistry

Mineral properties

Ortho-, di- and ring silicates

Framework silicates

Chain and sheet silicates

Origin of magmatic rocks

Classification of magmatic rocks

Origin of metamorphic rocks

Classification of metamorphic rocks

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