



## SUBJECT DATASHEET

<b>Semester:</b>	2009/10/2
<b>Subject:</b>	General geology
<b>Code:</b>	VEMKFTB243F
<b>Responsible department:</b>	Department of Earth and Environmental Sciences
<b>Responsible department code:</b>	MKFT
<b>Responsible lecturer:</b>	Ágnes Rostási

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### Educational objectives:

Understanding the processes controlling properties and changes of lithosphere and external Earth's spheres.

### Detailed content of the subject:

1. Geology as a natural science. 2. The Earth as a planet and system. 3. The composition of the lithosphere: the minerals and rocks. 4. The magmatic system: development and composition of the magma. 5. The magmatic system: the magmatic rocks and the volcanic activity. 6. The sedimentary system: weathering and erosion. 7. The sedimentary system: properties and types of sediments and sedimentary rocks. The diagenesis. 8. The sedimentary system: continental basins and (palaeo-)environments. 9. The sedimentary system: marine basins and (palaeo-)environments. 10. The metamorphic system. 11. Structure and deformation of rocks. 12. Geological time. 13. Major events of development of the Earth and the life. 14. Possible future of the Earth's system.

### Requirements:

Seminars: participation is required. 2 tests will be written during the seminar, each of which must be performed at least at 50% level in order to pass.

Lectures: participation is mandatory. Grading is based on the written tests. Attendance of 2/3 of the lectures is mandatory.

### Required and suggested references:

Konrád Gyula (2005): Földtörténet és őslénytan. Egyetemi jegyzet, PTE, Pécs. Báldi T. (1991): A történelmi földtan alapjai. Tankönyvkiadó, Budapest. Hartai É. (2003): A változó Föld. Miskolci Egyetem Kiadó, Miskolc.