



## COURSE DATASHEET

<b>Semester:</b>	2012/13/1
<b>Course:</b>	Physical Geography
<b>Code:</b>	VEMKFT1112F
<b>Responsible department:</b>	Department of Earth and Environmental Sciences
<b>Department code:</b>	MKFT
<b>Responsible instructor:</b>	Ágnes Rostási

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### Course objectives:

Understanding the complexity of processes acting on the Earth's surface, causes forming landscapes and geomorphology

### Course content:

1. The Earth as a planet in the Solar System and in the Universe. 2. Shape and dimensions of the Earth. 3. Geomorphological and tectonical units of the Earth's surface. The hypsographic curve. 4. The gravity force and its local anomalies. 5. The Earth's magnetism. The palaeomagnetism. 6. The Earth's inner heat, the geothermic gradient. 7. The Earth's chemical and structural composition. Earth's models. 8. Changes of the Earth's surface level. Isostasy and epirogenicity. 9. Geographic phenomena of the magmatism and volcanism. Morphological types of volcanoes. 10. The earthquakes. 11. Fundamentals of the global tectonics. 12. Composition, basic physical properties and structure of the atmosphere. 13. Circulation patterns of the atmosphere, climate types. Factors determining the Earth's climate and their temporal changes. 14. The weathering. Eolic systems and morphological forms. 15. Fluvial, palustric and glacial systems and morphological forms. 16. Subsurface waters and their effects on landforms. 17. Marine systems, movements and circulation of the seawater.

### Requirements, evaluation and grading:

Lectures: participation is mandatory. Oral examination during the end-of-semester test period. Grading is based on the oral exam.

### Required and recommended readings:

Jakucs L.: Általános természeti földrajz (jegyzet) Báldi T.: Elemző (általános) földtan (jegyzet)