



## SUBJECT DATASHEET

<b>Semester:</b>	2010/11/2
<b>Subject:</b>	Introduction to Geophysics
<b>Code:</b>	VEMKKVB221G
<b>Responsible department:</b>	Department of Environmental Engineering
<b>Responsible department code:</b>	MKKV
<b>Responsible lecturer:</b>	Dr. Pál Draskovics

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### Educational objectives:

Delivery of basic knowledge on the environmental application of geophysical methods; first of all through case histories

### Detailed content of the subject:

1. History and general introduction of geophysics 2. Summary of basic geophysical methods 3. Comparison of gravity and magnetic methods 4. Direct current geoelectric methods: VES (Vertical Electrical Sounding) 5. Direct current geoelectric methods: Horizontal Profiling 6. Direct current geoelectric methods: Induced Polarization investigations 7. Alternating current geoelectric methods: profiling and frequency sounding 8. 1st essay 9. Seismic method: reflection and refraction measurements 10. Aerogeophysics; well logging methods 11. Engineering Geophysical Sounding 12. Concerning all the methods: physical bases, equipment, measurements, processing, interpretation, environmental relations 13. Demonstration of real field survey results 14. Application possibilities of geophysics in solving environmental problems 15. 2nd essay

### Requirements:

To write two essays

### Required and suggested references:

Segédanyag a „GEOFIZIKA” című tárgyhoz (az oktató összeállítása)