Subject: Complex field practise	***Neptun code:***	1 week
Credit: 2 ***Requirement:*** mid-year degree	***Prerequisits:*** -	
Lecturer: Dr. Tóth Zoltán	***Position:*** associate professor	***Institute name:*** Óbudai Egyetem Alba Regia Műszaki Kar, Geoinformatikai Intézet
Assessment and verification procedures: Practical evaluation		

Material:

Goal:
The aim of the course is to use the practical skills and knowledge acquired in the prior semesters in industrial environment. This is a joint course with the Slovakian Technical University with Bratislava, which takes place in Gabcikovo Hydropower Plant, Slovakia.

Topics:

- Occupation Safety Regulation
- Structure of hydropower plants
- Engineering geodesy in hydropower plants
- Control measurement of horizontal control network
- Control measurement of vertical control network
- Horizontal movement monitoring measurements
- Vertical movement monitoring measurements
- Measurement processing

Competences:

The students of this course will gain extended knowledge in industrial engineering geodesy.
The students are able to participate in high precision works in industrial environment, and process high precision data.

Bibliography:

required literature:
Authors: Kopáčik, Alojz, Erdélyi, Ján, Kyrinovič, Peter Engineering Surveys for Industry (2020), eBook ISBN 978-3-030-48309-8

recommended literature:
Editors: Kopáčik, A., Kyrinovič, P., Erdélyi, J., Paar, R., Marendić, A. (Eds.),Contributions to International Conferences on Engineering Surveying (2021) eBook ISBN 978-3-030-51953-7
Erdélyi, Ján (et al.)Building Information Modelling of Industrial Plants Pages 13-26 (2021)