



JOHN WESLEY THEOLOGICAL COLLEGE
COURSE TEMATICS

Geophysical methods of investigation of environmental systems Course	Course type: lecture	Credits: 3	Course ID: KTAK134/1
Course responsible: Dr Plank Zsuzsanna	Programme type: full time	Hours/Semester : 28	Assessment: exam
Course objectives: Students get to know the geophysical methods used to assess the quality of the environment			
Competencies to be improved. Knowledge: T1, T3, T6 Ability: K5, K8 Attitude: A1, A2, A3 Autonomy and responsibility: F1, F2			
Compulsory literature: Recommended literature: Pethő Gábor, Vass Péter: Geophysics 3, 6, 8, 9, 10, 11			
Course content: Investigation of atmosphere and hydrosphere <ol style="list-style-type: none"> 1. Air pollution and its measurement 2. Investigation of hydrosphere contamination Geophysical survey methods <ol style="list-style-type: none"> 1. Remote sensing methods 2. Seismic exploration methods 3. Ground Penetration Radar method 4. Induction EM method 5. Geoelectric survey method Well logging, probing <ol style="list-style-type: none"> 1. Borehole geophysical methods 2. Engineer geophysical method 3. Cone Penetration Test Sampling and Sample Analytics <ol style="list-style-type: none"> 1. Sampling plan 2. Sampling 3. Sample preparation 4. Sample analytics Sources of environmental data, <ol style="list-style-type: none"> 1. Public databases 			
Course requirements: Completion of the semester requires the completion of one written assignment at least at a sufficient level. Oral exam.			
Grading scale: >90 %: excellent, 89-80 %: good, 79-66 %:satisfactory, 65-50 %:pass			



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Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2022_2023_2	Lecturers: Nagy Attila Zoltán
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