



JOHN WESLEY THEOLOGICAL COLLEGE

COURSE TEMATICS

Course: Environmental Earth Science II	Course type: Lectures & seminar	Credits: 3	Course ID: KTAK115
Course responsible: Török Liliana Paraschiva	Programme type: theoretical	Hours/Semester: 10	Assessment: exam
Course objectives:			
<p>The course objective is to identify and explain topics in: Meteorology (the scientific method, humidity, cloud formation and precipitation, discusses weather forecasting methods, procedures and products. Examines atmospheric models, weather maps and surface station models. Teaches how to construct isotherms and isobars and analyse surface weather maps); Cartography (instruments and methods used in Cartography); Pedology (soil classification, demonstration: how to use the diagram for soil classification system for agricultural propose, criteria for differentiating soil)</p>			
Competencies to be improved:			
<p>Knowledge: T1, T2, T3, T6, T7 Ability: K4, K5 Attitude: A3, A4, A6 Autonomy and responsibility: F2</p>			
Compulsory literature:			
<p>Downloadable course materials provided by the lecturer in the time of the classes indicated in the timetable.</p>			
Recommended literature:			
<p>Ackermann S.A., Knox J.A., 2012. Meteorology: understanding the atmosphere, 3rd edn. Sudbury, MA: Jones and Bartlett Learning Atit K., Weisberg S. M., Newcombe N. S., Shipley T. F., 2016. Learning to interpret topographic maps: Understanding layered spatial information. IN: Cognitive Research: Principles and Implications vol. 1:2, pp. 1-18, DOI 10.1186/s41235-016-0002-y FAO 2006, Rome, Guidelines for soil description, pp. 97, ISBN 92-5-105521-1</p>			
Course content:			
<p>Principle of Science & Scientific methods Statistics basic Meteorology Terms & Key Concepts Forecasting Methods in Meteorology Climate & Climate Change Introduction of Cartography, Maps & Map making process Introduction of Pedology (Soil Science) and Edaphology & World Reference Base for Soil Resources</p>			
Course requirements:			
<p>Completing several electronic control tests during the class. Exam grade can be offered based on the average grade of submitted course assignments. Final exam is a cumulative test. If, due to objective reasons, a course has to (and will) be held online, the participation requires stable internet connection, a switched-on webcam, and the use of a microphone at the lecturer's request. In the absence of any of these, the student is considered missing the class.</p>			
Grading scale:			
<p>Control test grades:: >90 %: excellent, 75-89.9 %: good, 60-74.9 %: satisfactory, 45-59.9 %: pass Exam grades: >90 %: excellent, 80-89.9 %: good, 65-79.9 %: satisfactory, 50-64.9 %: pass</p>			
Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2022_2023_1	Lecturers: Dr. TÖRÖK Liliana Paraschiva	