



JOHN WESLEY THEOLOGICAL COLLEGE
COURSE TEMATICS



Course: Meteorology	Course type: seminar	Credits: 3	Course ID: KTAK132
Course responsible:	Programme type:	Hours/ Semester: 28	Assessment: exam
Course objectives: The main goal of the course is to initiate students to the best use of meteorological and air quality information, including observation data and different types of weather forecast products. The course includes selected topics in atmospheric science, like some very basics in dynamics, thermodynamics, cloud physics, chemistry and radiation. One of the focuses of the course will be the identification of extreme weather events and estimating their potential impacts to the environment, infrastructure and society.			
Competencies to be improved: minimum 3 kategóriához, összesen minimum 5 db kompetencia kell Knowledge: T2, T6 Ability: K2, K3, K6, K8 Attitude: A3, A6 Autonomy and responsibility: F1, F2			
Compulsory literature: course materials provided by the lecturers Recommended literature: Introduction to meteorology course available at http://meted.ucar.edu/ (COMET® Website)			
Course content: Earth's atmosphere and composition Ground and space-based meteorological and air quality measurements and observations Basics in atmospheric dynamics, thermodynamics, cloud physics, chemistry and radiation Weather systems, summer- and wintertime high-impact weather events Numerical weather forecast models and products Usage of open meteorological data sources Course requirements: Attendance at classes, final exam is a cumulative test Grading scale: Exam grades: >90 %: excellent, 80-89.9 %: good, 65-79.9 %: satisfactory, 50-64.9 %: pass			
Course Programme: WJLF ENVIRONMENTAL SCIENCE	Semester: 2022_2023_1	Lecturers: Kolláth Kornél Salavec Péter	