Online Course Catalogue

Course Title	Study Field	University
Aerial environment lecture	**Natural sciences, mathematics and statistics**	**Eötvös Loránd University**

CHARM priority field Sustainability and Climate Change;

Course code

ktudlevegog17em

Faculty

Faculty of Science Department

Department of Meteorology

Study Level:

MA/MSc

Number of credit points: **2**

Name of instructor(s):

Rita Pongracz

Short description of the course

The aim of the course is to give an overview for the students on the air pollution processes, emission and air quality trends, the transport modeling of air pollutants, international treaties and conventions for the protection of clean air. In addition, students should understand the local and global scale processes that cause modification in the air composition.

Full description of the course

The process of air pollution: emission, transmission, immission. Air quality thresholds. Acidification. International conventions for the protection of clean air. EMEP. Atmospheric transport processes and their modeling. The environmental impact of cities: urban smog. Effects modifying the global composition of the air, international conventions (stratospheric ozone, greenhouse gases).

Learning outcomes

At the end of the course, the students will be able (i) to collect information independently on the environmental impacts of urban areas, (ii) to evaluate air quality information, (iii) to analyze the effects of global changes in air composition, (iv) to identify specialised professional problems through a multi-faceted, interdisciplinary approach, and to explore and formulate the theoretical and practical background necessary to solve them.

Additional information

Course requirements
Basic natural science background

Language of instruction
English

Start date of course:
2024-09-09 00:00:00

End date of course:
12/13/2024

Contact hours per week for the student:
1

Specific regular weekly teaching day/time
Not available yet, preferably early afternoon

Time zone
CET (Spain, France, Germany, Netherlands, Hungary, Norway)

Mode of delivery:
hybrid (students of the CHARM partners join online, local students on campus)

Planned educational activities and teaching methods
lectures, literature review on country-specific problems

Learning Management System
Teams, Canvas

Assessment methods
written exam

Certification
Transcript of records

Course literature (compulsory or recommended):
Recommended: Lagzi et al. (2013): Atmospheric Chemistry. ELTE, Budapest. Electronically available at: https://dtk.tankonyvtar.hu/handle/123456789/12340, in addition, EMEP: http://emep.int/, IPCC Assessment Reports: http://www.ipcc.ch/, NASA Ozone Hole Watch: https://ozonewatch.gsfc.nasa.gov/, NOAA ESRL South Pole Ozone Hole: https://www.esrl.noaa.gov/gmd/dv/spo_oz/

Number of places available for CHARM students
20

Other relevant information

None