

COURSE TITLE:

## ATMOSPHERIC ENVIRONMENT PROTECTION

COURSE DESCRIPTION:

The basic terms of air pollution. The main air pollutants. Emission trends and strategies. Global environmental issues: Stratospheric ozone layer depletion and global climate change. Urban climate. The transport of air pollutants and transformation processes. The diffusion equation and the numerical solution. Transport models: Gaussian-model, Puff-model, Lagrangian and Eulerian models. Optimal choice of location for industrial facilities. International conventions. Measuring systems and instruments.

LITERATURE:

Stull, R.B.: An Introduction to Boundary Layer. Kluwer Academic Publishers, 1988.

Online information available on official websites of reliable organizations, international institutes, e.g., <http://www.ipcc.ch>, [www.emep.int](http://www.emep.int), [www.noaa.gov](http://www.noaa.gov), [ozonewatch.gsfc.nasa.gov](http://ozonewatch.gsfc.nasa.gov)

TEACHER:

**Róbert Mészáros**

associate professor