

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 www.noaa.gov
www.ozonewatch.gsfc.nasa.gov

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