



ЦЕНТЪР ЗА ОБУЧЕНИЕ – БАН

1000 София
ул. „Сердика“ № 4
<http://edu.bas.bg>

email: tdc-phd@cu.bas.bg
тел.: 02 987 31 67
02 979 52 60

Basic Information:

Course Title: Modeling the chemical composition of the atmosphere and the natural risks to the environment and human health

Lecturer: Prof. Georgi Gadzhev, PhD

Phone: +359 2 979 3303

Email: ggadjev@geophys.bas.bg

Total Teaching Hours: 30

Annotation (up to 150 words)

The main course objective is to give specific knowledge of chemical composition modelling in the atmosphere in the context of environmental hazard assessment and human health. The participants in this course will be able to get familiar with different methods use in chemical composition atmospheric modelling and basic processes responsible for air quality. Introduction with the basic equations and parameterizations use in this specific task is the minimum of knowledge that needed for air quality research, environmental hazard assessment and human health.

Course content (brief description by topics or modules)

Topic 1: Modeling approaches to the chemical composition of the atmosphere.

Topic 2: Basic equations and parameterizations in modeling of the chemical composition of the atmosphere.

Topic 3: Basic metrics and indices for assessing the environmental and human health risk.

Teaching and assessment methods

Attendance of 30 hours of lectures.

Assessment, by exam and discussion.

Competencies acquired as a result of training (3–5 points)

At the end of the training, trainees will acquire basic knowledge for analysis and assessment of the environmental and human health risk.

Additional information (optional) (e.g., special requirements, laboratory equipment, prior knowledge)

Basic computer skills when working with office software products.