

Chemistry of Pollutants (Goran Pipuš, Ph.D., lecturer)

Subject code: CP

Year of study: 3.

Semester: 2.

ECTS: 4

Total number of lessons: 45

Lectures: 20

Tutorials and seminars: 25

Lab work: /

Aims of the course:

The aim of the study subject is to acquire and understand some interconnected knowledge in the fields of chemistry and the environment. The students will learn about what happens when synthetic organic or inorganic atoms/molecules that are hard to decompose enter a certain place or an organism, how the circulation / accumulation / decomposition of such atoms/molecules takes place in various different environments. The study subject focuses on the chemistry of elements and compounds in the air, water and soil. All this knowledge is essential for understanding interactions, transformations and movements of pollutants, and some phenomena in the environment. Anticipated study results:

- a. knowing some individual groups of pollutants in the environment,
- b. The ability to anticipate or predict possible consequences of various emissions or discharges of pollutants into the environment and their extent, and some basic measures to remedy the environment, and
- c. the ability to professionally take samples, their stabilisation and storage.

Subject content:

1. Chemistry of solids and fluids in the environment

2. Chemistry of gases in the environment

3. Applied environmental chemistry

Teaching and learning methods:

Lectures, seminar work

Study obligations:

Completed seminar work, written exam

Literature

D.W. Hawker, D.W. Conell, M. Warne, P.D. Vowles: *Basic Concepts of Environmental Chemistry*, Lewis Publishers, Inc..1997.