Course Unit Descriptor

Study Programme: Environmental Engineering And Occupational Safety Engineering
Course Unit Title: Ambient air pollution
Course Unit Code: Z481
Name of Lecturer(s): Turk-Sekulić Maja, Radonić Jelena, Adamović Dragan
Type and Level of Studies: bachelor
Course Status (compulsory/elective): elective
Semester (winter/ summer): winter
Language of instruction: english
Mode of course unit delivery (face-to-face/distance learning): face-to-face
Number of ECTS Allocated: 7
Prerequisites: none
Course Aims:. Introducing students of environmental engineering with the basic principles and laws of chemistry of the atmosphere, sources and fate of pollutants in the air.
Learning Outcomes: Acquiring fundamental knowledge of the chemistry of air pollution and the phenomenon of degradation and the transformation processes in the atmosphere.
Syllabus. The atmosphere layers and main constituents. Air pollutants and their properties. A global picture of organic and inorganic air pollutants – occurrence, physico-chemical properties, persistence, bioaccumulation. Air pollutants sources – natural and anthropogenic, stationary and mobile. Transport and transformation processes. Atmospheric chemistry. Equilibrium partition coefficients. Multimedia models. Air pollution and climate change. Overview of environmental air policies. Pollution monitoring networks.
Required Reading: Relevant literature in English, tbd

Weekly Contact Hours: 2	**Lectures: 3**	**Practical work: 0**

Teaching Methods: Lectures. Laboratory and calculation exercises. Consultations - individual and collective. During the semester, students are obliged to attend lectures and exercises, to pass colloquiums in a number of experimental exercises and to do a term paper. After successfully realized examination prerequisites, students take the final exam which consists of practical and oral part.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Attendance			
Computer exercises			
Tests (4x)			