Course Unit Descriptor

Study Programme: Environmental Engineering			
Course Unit Title: Pollution Inventory			
Course Unit Code: OAS214			
Name of Lecturer(s): Associate Professor Bogdana Vujic, PhD			
Type and Level of Studies: Bachelor Academic Degree			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: None			
Course Aims: The objective of the course is to acquire the necessary knowledge in the field of pollutant inventory and aspects of its application in the field of environmental protection.			
Learning Outcomes: The acquired knowledge should be used by students in further education, first of all in professional subjects**.** Students gain knowledge in the field of legislation, as well as annual emission calculations based on various techniques, such as emission factor, monitoring data, mass balance etc.			
Syllabus: *Theory* Integration of the planning, management and decision making process with quality data generated by development of an integrated pollutant inventory. Historical overview of the metodology for the development of the cadastre, an overview of regulations in the EU and developed world countries. Integrated pollutant inventory and other legal acts related to the creation of the cadastre. Source of pollution and pollutants. Natural and antropogenic pollutants. Point and non-point pollutants. General data, work data, production data, waste water, waste gases solid waste, hazardous waste, medical waste. Data on industry activities. Data collection based on UN hazardous waste labeling and marking based on Basel Convention. *Practice* Practical examples of emission calculations based on different techniques.			
Required Reading: 1. Vujic B. Metode za definisanje izvora i kolicina zagadjenja zivotne sredine, Tehnicki fakultet “Mihajlo Pupin” Zrenjanin, 2016. 2. Cris Park, The Environment, Routledge 1997.			
Weekly Contact Hours: 4	**Lectures: 2**	**Practical work: 2**	
Teaching Methods: Lectures and students group work			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	**Final exam**	points

Active class participation	10	oral exam	50
Practical work	10		
Referat	30		