

Title of the course: Environmental elements protection II. - Air quality protection	NEPTUN-code: RKXKE2ABNE	Weekly teaching hours: $l+cw+lb$ 1+2+0	Credit: 3 Exam type: tm
Course leader: Rita Kendrovics-Boda, Dr.	Position: associate professor	Required preliminary knowledge: There is no requirement	
Curriculum:			
Topics: Structure of atmosphere, ambience effects, sunlight radiation, greenhouse effect, the spread of pollutants, self-purification, air quality protection limit values, imission emission standards. Dust technical basic concepts, methods of measurement, dust chambers, filters, cyclones, electro filters.			
Professional competencies:			
<p>Knowledge of general and specific mathematical, natural and social scientific principles, rules, relations, and procedures as required to pursue activities in the special field of environment protection.</p> <p>In possession of state-of-the-art IT skills, being able to use professional databases and certain design, modelling, and simulation software depending on their specialty.</p> <p>Comprehensive knowledge of the basic features and interrelations of environmental elements and systems, as well as of the environmentally harmful substances affecting them.</p> <p>Able to perform basic tests of the quantity and quality characteristics of environmental elements and systems by state-of-the-art measuring instruments; to draw up and implement measurement plans; and to evaluate data.</p> <p>Able to carry out assignments as environmental officer.</p> <p>Able to carry out management duties subject to sufficient professional experience.</p> <p>Constantly upgrading their knowledge of environment protection by attending organized professional development training courses.</p>			
Literature:			
1. Nicholas P. Cheremisinoff, Ph.D. : Handbook of Air Pollution Prevention and Control			
2. Margeret Pence - Handbook of Air Pollution control Systems and Devices			
3. Roy M. Harrison - Handbook of Air Pollution Analysis 2 Sub Edition			
4. Joel M. Haight Ph.D., P.E. - Control of Air Pollution			
Comment:			