

Course Syllabus

Academic year: 2018-2019

Institution	University of Petroșani
Faculty	Mechanical and Electrical Engineering
Field of study	Industrial engineering
Level	Bachelor
Program of study	Machine Building Technology

Course	Environment protection
Code	2BB3OX32
Year of study (semester)	II (III)
Number of hours	28
Number of credits	2
Professor	Professor eng.,Ph.D. RADU Sorin-Mihai

No.	Topic
1.	Basic concepts of ecology: - Biology, biotope, natural resources; - Environmental management and evolution of global standardization; - Sustainable development and continuous improvement as principles of EMS - Certified Environmental Management System;
2.	Environmental factors: physical, chemical, classification, and evolutionary cycles - Water, pollutants, sources of pollution and wastewater treatment processes - Atmosphere, air, pollutants in the atmosphere and their environmental impact, sources of air pollution, methods of preventing and combating air pollution; - Soil, soil pollution, pollutants, sources of pollution and degradation factors and soil pollution control methods; - Forests, flora and fauna as environmental elements;
3.	Harmonization of Romanian environmental legislation with EU regulations on environmental protection: - EU environmental legislation;

	<ul style="list-style-type: none">- EU environmental regulations;- Ecological legislation promoted in Romania after 1990- Harmonization of Romanian legislation with EU environmental regulations;
4.	Costs and efficiency of environmental protection technologies: costs of environmental de-pollution, cost-effectiveness assessment of environmental de-pollution, depollution costs in industrialized countries.