

RISK EVALUATION

(Management and environmental protection, 1st Year of study, 2st Semester)

Credit value (ECTS): 5

Course category: Further study (mandatory)

Course holder: Assist. Prof. Georgiana-Diana GABUR, PhD

Objectives of the discipline (course and practical activity)

The main objective of Risk Assessment is to provide the students with knowledge of the basic principles of environmental risk assessment, as well as to teach them to use concepts and procedures of environmental and health risk assessment, to develop the ability to make plans for risk prevention or risk reduction and to apply risk assessment techniques and methods.

Contents (syllabus)

Course (chapters/subchapters)
1. Introduction: definition of the risk assessment process; the concept of Environmental Risk Assessment (ERA); basic elements of ERA methodology. Legislation governing the risk assessment study.
2. Procedures and indicators for environmental impact assessment. Types of impacts.
3. Types and sources of risk. Hazards generated by anthropogenic activities.
4. Environmental risk assessment
5. Environmental and health risks associated with global warming
6. Assessment of ecological risks
7. Human health risk assessment
8. Integrated environmental impact and risk assessment method
9. Risk management

Practical activity
1. Principles and criteria for environmental and health risk assessment - in a legislative context. Presentation of methods for qualitative analysis and assessment of environmental, ecological and health hazards and risks.
2. Dose-effect risk assessment. Application of methods (exercises) on case studies for risk assessment
3. Discussion, evaluation, critical analysis, case studies
4. Realization, application and interpretation of an environmental impact assessment method for a topical case study in Romania - individual report and field visit

Bibliography

1. Macoveanu M., 2005 - Metode și tehnici de cuantificare a impactului ecologic, Ed. Ecozone, Iasi.
2. Negrei C., 1999 - Instrumente și metode în managementul mediului, Ed. Economica Bucuresti.
3. Oros V., 2006 - Evaluarea impactului asupra mediului, Editura Risoprint Cluj-Napoca.

4. Robu Brindusa, 2005 - Evaluarea impactului și a riscului induse asupra mediului de activități industriale, Ed. Ecozone, Iasi.
5. Robu Brindusa, Macoveanu M., 2010 - Evaluări de mediu pentru dezvoltare durabilă, Ed. EcoZone, Iasi,
6. Rojanschi V., Bran F, Diaconu Gh., 1999 - Protecția și ingineria mediului, Ed. Economica Bucuresti.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Final exam	Written examination	60%
Evaluation of the activity during the semester	Written and oral assessments during the semester	40%

Contact

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