

# COURSE SYLLABUS

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|-----------------------|--|
| <b>University</b>     | <b>UNIVERSITY OF ORADEA</b>                                    |
| <b>Faculty</b>        | <b>FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT</b> |
| <b>Study program*</b> | <b>INDUSTRIAL ECONOMICS ENGINEERING</b>                        |

## I. Course Name: Environmental Management

## II. Course Details

| No of hours/week |          |         |         |         |            |         |
|------------------|----------|---------|---------|---------|------------|---------|
| Code             | Semester | Credits | Lecture | Seminar | Laboratory | Project |
| IEMI 0601        | VI       | 4       | 2       | 2       | -          | -       |

## III. Course coordinator (title, name, surname, e-mail):

Lecturer Phd, Nicoleta Andreescu, [nandreescu@uoradea.ro](mailto:nandreescu@uoradea.ro)

## IV. Course objectives

Familiarizing students with the basic concepts and notions in the field of environmental management.  
Acquiring skills in understanding the process of implementing the environmental management system.

| V. Course content   | No. of hours |
|---|--------------|
| <b>V.1. Lecture (chapters/subchapters and paragraphs)</b>   |              |
| General aspects of environmental management.  | 2            |
| Organizations and the environment.  | 2            |
| Environmental strategies and policies.  | 6            |
| Legislative regulations on environmental protection.  | 4            |
| Environmental management systems.   | 4            |
| Standards in environmental management.  | 6            |
| Implementation of an environmental management system according to the ISO 14001 standard                      | 4            |
| <b>V.2. Laboratory/Seminar/Project:</b>   |              |
| Case studies on the evolution of environmental management   | 2            |
| Case studies on corporate social responsibility.  | 4            |
| Case studies on environmental policy.   | 6            |
| Case studies on different environmental management systems.   | 4            |
| Case studies on the steps involved in implementing an environmental management system according to ISO 14001. | 6            |

## VI. Bibliography

Andreescu, N., Managementul mediului, note de curs, Universitatea din Oradea, 2024, document disponibil online pe platforma uoradea.ro.  
Ionescu, Cicerone Managementul mediului ISO 14001:2004. Calea spre excelenta, Editura Economică, București, 2005  
Moraru, R.A. – Managementul mediului, Editura Ion Ionescu de la Brad, USAMV Iasi, 2018;  
Negrei, C. Costel, *Instrumente și metode în managementul mediului*, Editura Economică, București, 1999.  
Olaru Marieta, Implementarea unui sistem de management de mediu, potrivit standardului ISO 14001 în relație cu standardele ISO 9000, în *Orientări actuale în managementul calității*, vol.1, Editura ASE, București.  
Petrescu Ion, *Managementul mediului*, Editura Expert, Bucuresti 2005.  
Rojanschi Vladimir, Bran Florina, *Politici și strategii de mediu*, Editura Economică, București, 2002.  
Managementul de mediu, C.E., 2022, document disponibil online: <https://www.consilium.europa.eu/ro/general-secretariat/corporate-policies/environmental-management/>  
ISO 14001, document disponibil online: <https://www.iso.org/iso-14001-environmental-management.htm>,  
[https://www.certind.ro/sisteme-de-management\\_8/managementul-de-mediu-ISO-14001\\_10](https://www.certind.ro/sisteme-de-management_8/managementul-de-mediu-ISO-14001_10)

## VII. Grading criteria

| Activities | Assesment  | % of final grade |
|------------|--|------------------|
| Exam       | Written exam:<br>1.Requirements in order to get the minimum grade for passing the exam:<br>For the minimum grade, Solving 60% of each requested topic. | 50%              |

|                            |  |     |
|----------------------------|--|-----|
|                            | 2. Requirements for the maximum grade<br>Alternative assessment methods are used, including: the student's portfolio (reports, short tests along the way, debate activity) and the final assessment in the form of a written exam consisting of 2 tests:<br>a) Treatment of a theoretical subject (knowledge test requiring analysis and synthesis, according to the bibliography),<br>b) Solving a practical situation (access to information available). |     |
| Seminar/Laboratory/Project | The evaluation of the seminar activity is based on the papers (40%) and on the method of active participation in debates (10%).  | 50% |

### VIII. Learning outcomes:

To know the components of environmental management, its functions and the main mechanisms and tools used.

To understand the role and importance of environmental management within organizations, taking into account the phenomenon of globalization.

To develop the students' capacity to design and draft an environmental policy and, respectively, an environmental strategy.

To develop the ability to synthesize and select the information necessary to solve decision-making situations regarding the choice and implementation of an environmental management system.

To create and develop the ability to analyze and propose solutions to improve an existing environmental management system in relation to legislative changes.

Course coordinator,  
Nicoleta Andreescu