Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Academic institution	**UNIVERSITY OF ORADEA**
1.2 Faculty	**FACULTY OF ENVIRONMENTAL PROTECTION**
1.3 Department	**ENVIRONMENTAL ENGINEERING**
1.4 Field of study	**ENGINEERING SCIENCE**
1.5 Cycle of study	**BACHELOR**
1.6 Study programme/Qualification	**BIOTECHNICAL AND ECOLOGICAL SYSTEMS ENGINEERING**

2. Information on the discipline

2.1 Name of discipline				**ENVIRONMENTAL MANAGEMENT II**			
2.2 Course holder				**ASSOCIATE PROFESSOR ENG. RADU BREJEA**			
2.3 Seminar/Laboratory/Project holder				**ASSOCIATE PROFESSOR ENG. RADU BREJEA**			
2.4 Year of study	IV	2.5 Semester	08	2.6 Type of evaluation	EX	2.7 Regime of discipline	C

(C) Compulsory; (O) Optional; (E) Elective

3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	4	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	2
3.4 Total hours in the curriculum	40	out of which: 3.5 course	20	out of which 3.6 seminar/laboratory/project	20

Time allotment	hours
Study assisted by manual, course support, bibliography and notes	14
Additional documentation in the library/ on specialised electronic platforms and in the field	10
Preparation of seminars/laboratories/ topics/reports, portfolios and essays	10
Tutorship	4
Examinations	6
Other activities.....	

3.7 Total hours of individual study	**44**
3.9 Total hours per semester	**84**
3.10 Number of credits	3

4. Prerequisites (where appropriate)

4.1 curriculum	Conditions
4.2 competences	

5. Conditions (where appropriate)

5.1. related to course	PC, videoprojector
5.2. related to seminar/laboratory/ project	PC, videoprojector

6. Specific competences acquired	
Professional competences	C2. Managing and resolution of specific environmental issues for sustainable development C2.3. Applying of basic technical and technological knowledge in defining and explaining of concepts specific to engineering and environmental protection C2.4. Quantitative and qualitative evaluation of natural phenomena and anthropogenic activities on the quality of environmental factors C6. Introducing the best technologies in implementing of environmental strategies and plans according with current legislation C6.2. Using information regarding to the best technologies for implementation in environmental projects C6.4. Analysis of processes and technology projects concerning to reducing the impact on the environment
Transversal competences	CT1. Identifying and observing the ethics rules and professional deontology, assuming responsibility for decisions taken and related risks

7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	▪ To familiarize students with the main notions, approaches, methods and techniques used in environmental management
7.2 Specific objectives	▪ Knowing the components of environmental management, its functions and the main tools used. ▪ To capture the specifics of the notions used in environmental management ▪ Understanding the role and the importance of environmental management within organizations ▪ To develop the students' ability to conceive and draft environmental policies and strategies

8. Content*/

8.1 Course	Methods of teaching	No. of hours/Remarks
General issues regarding to environmental management	Lecture, exposure, student participation	**2**
Organizations and the environment	Lecture, exposure, student participation	**2**
Strategies and environmental policies	Lecture, exposure, student participation	**2**
Presentation of the elements of an environmental management system	Lecture, exposure, student participation	**2**
Advantages of an environmental management system	Lecture, exposure, student participation	**2**
Assessment of environmental performance	Lecture, exposure, student participation	**2**
Environmental Audit	Lecture, exposure, student participation	**2**
Life cycle evaluation of the products	Lecture, exposure, student participation	**2**
Labels and environmental statements	Lecture, exposure, student participation	**4**

Bibliography:

1. Ionescu Cicerone - How to build and implement an environmental management system in accordance with ISO 14001. Economic Publ.House Bucharest, 2000
2. Jelev I**., Brejea R.**- Management applied systems of environment. Publ.House of University of Oradea. 2006. ISBN (10) 973-759-105-4
3. Jelev I- Environmental management. Publ.House of University of Oradea. 2001. ISBN: 973-85096-8-8
4. Rojanschi V., Bran F., Strategies and environmental policies. Economic Publ.House Bucharest, 2002

8.3. Seminary	Methods of teaching	No. of hours/ Remarks
Implementation of an environmental management system within organization	Lecture, exposure, student participation	**2**
Environmental policy, an important component of an environmental management system	Lecture, exposure, student participation	**2**
Programs and strategies in the field of environmental protection	Lecture, exposure, student participation	**2**
Institutional framework in the field of environmental protection	Lecture, exposure, student participation	**2**
Establishing the steps for environmental performance	Lecture, exposure,	**2**

evaluation of an organization	student participation	
General principles necesary to be respected when performing an environmental audit	Lecture, exposure, student participation	**2**
Methodological framework for the assessment of products life cycle	Lecture, exposure, student participation	**2**
General principles taken into account when developing labels and environmental statements	Lecture, exposure, student participation	**2**
Ensuring means and actions support for implementation of environmental programs	Lecture, exposure, student participation	**4**

Bibliography:

1. Jelev I**., Brejea R.**- Management applied systems of environment. Publ.House of University of Oradea. 2006. ISBN (10) 973-759-105-4; ISBN (13) 978-973-759-105-0
5. Domuţa C., Brejea R. Environment Monitoring. Publ.House of University of Oradea, 2010. ISBN 978-606-10-0187-3
2. Negrei C., Tools and methods in environmental management. Economic Publ.House Bucharest, 1999.

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

- By acquiring theoretical concepts and addressing the practical aspects of the field of Environmental Management, students acquire a consistent knowledge baggage according to the competencies required for occupations provided in the RNCIS

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	Exam	Written	70%
10.5 Seminar	Periodic verification		30%
10.6 Laboratory			
10.7 Project			
10.8 Minimum standard of performance			
The minimum performance standard assumes the partial acquisition of 50% of the basic knowledge of the subject studied.			

Date of completion	Signature of course holder**	Signature of seminar laboratory/project holder **
26.09.2022	Associate professor eng. Brejea Radu rbrejea@yahoo.com	Associate professor eng. Brejea Radu rbrejea@yahoo.com

Date of approval in the department

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Signature of the Head of Department
Professor eng SABAU NICU CORNEL
nicusabau@yahoo.com

Dean signature
Ass.Professor eng. MAERESCU CRISTINA

** - Name, first name, academic degree and contact details (e-mail, web page, etc.) will be specified.

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