

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	ENVIRONMENTAL ENGINEERING
1.5 Cycle of study	BACHELOR
1.6 Study programme/Qualification	BIOTECHNICAL ENGINEERING AND ECOLOGICAL SYSTEM /ENGINEER

2. Information on the discipline

2.1 Name of discipline	ENVIRONMENTAL HYGIENE I						
2.2 Course holder	Lecturer PhD eng. Oneț Cristian						
2.3 Seminar/Laboratory/Project holder	Lecturer PhD eng. Oneț Cristian						
2.4 Year of study	IV	2.5 Semester	VII	2.6 Type of evaluation	Ex	2.7 Regime of discipline	I

(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	56	out of which: 3.5 course	28	out of which 3.6 seminar/laboratory/project	28
Time allotment					hours
Study assisted by manual, course support, bibliography and notes					20
Additional documentation in the library/ on specialised electronic platforms and in the field					20
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					24
Tutorship					-
Examinations					6
Other activities.....					-
3.7 Total hours of individual study	69				
3.9 Total hours per semester	125				
3.10 Number of credits	5				

4. Prerequisites (where appropriate)

4.1 curriculum	Air pollution, Hydrochemistry and water pollution, Pedology and soil pollution
4.2 competences	Action ability: information capacity and documentation, group work, utilisation of informatics technologies and data processing; ability to apply knowledge actively and practically.

5. Conditions (where appropriate)

5.1. related to course	Using modern means of presentation and projection – video projector and computer
5.2. related to seminar/laboratory/ project	Using modern means of presentation and projection – video projector and computer

6. Specific competences acquired	
Professional competences	<p>C1. Explaining the mechanisms, processes and effects of anthropogenic or natural origin that determine and influence environmental pollution</p> <p>C1.2 Use of basic scientific knowledge in defining and explaining the concepts of engineering and environmental protection</p> <p>C2. Managing and solving specific environmental issues for sustainable development</p> <p>C2.2 Explaining and interpreting basic concepts, methods and models in environmental engineering issues</p>
Transversal competences	<p>CT1. Identifying and observing professional ethics and deontology rules, assuming responsibility for decisions taken and related risks.</p>

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

7.1 General objective	Environmental hygiene includes basic knowledge on the role of environmental factors as etiological agents on the state of human health. Hygiene treats, according to its own methodology, the principle of etiology and prophylaxis, substantiating the biological and social determinism of the notion of health.
7.2 Specific objectives	<ul style="list-style-type: none"> • Students' achievement of the main objectives related to air hygiene. • Knowledge of the main environmental factors and their influence on the human body. • Studying the impact of pollution on environmental factors. • Acquiring and /or deepening a way of life and civilized and healthy activity.

8. Content*/

8.1 Course	Methods of teaching	No. of hours/Remarks
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The importance of environmental hygiene for individual and human health	Lecture and video projector exposure	2
Air hygiene. Sources of atmospheric pollution and influence on human collectives	Lecture and video projector exposure	2
Direct effects of major pollutants with toxic action on the human body	Lecture and video projector exposure	2
The influence of the climate on the human body	Lecture and video projector exposure	4
Hygiene and sanitary measures to combat air pollution	Lecture and video projector exposure	2
The hygienic importance of water and the influence of water on the health of the population	Lecture and video projector exposure	4
The role of water in transmission of infectious and noninfectious diseases	Lecture and video projector exposure	4
Sources of water pollution and influence on human health	Lecture and video projector exposure	4
Protection of water and aquatic ecosystems	Lecture and video projector exposure	4
Bibliography 1. Bara V., 1998, <i>Environmental Hygiene</i> , University of Oradea Publishing House. 2. Bara V., Oneț C., 2008, <i>Hygiene guide for food industry</i> , Editura Universității din Oradea; 3. Decun M., 2007, <i>Animal and environmental hygiene</i> , Mirton Publishing House, Timișoara; 4. A. Jompan, <i>Community Hygiene</i> , Eurostampa Publishing House, 2002; 5. Mănescu, S., <i>Hygiene</i> , Medical Publishing House, Bucharest, 1996; 6. Oneț C., 2012, <i>Environmental Hygiene</i> , University of Oradea Publishing House; 7. Vlaicu, Brighita, <i>Hygiene and Food Ecology</i> , Eurobit Publishing House, Timisoara, 1998.		
8.3 Laboratory		
Chemical composition of the air and the influence on the body	Debate	4
Qualitative parameters of air	Debate	2
Measures to decontaminate air in enclosed spaces	Debate	4
Hygiene-sanitary parameters of drinking water	Debate	2
The main sanitary-sanitary indicators of waste water	Debate	4
Water disinfection methods	Debate	4
Hygiene rules related to the local water supply	Debate	2
Hygienic-sanitary water research	Debate	4
Evaluation	Debate	2
Bibliography 1. Bara V., 1998, <i>Environmental Hygiene</i> , University of Oradea Publishing House; 2. Bara V., Oneț C., 2008, <i>Hygiene Guide for Food Industry Units</i> University of Oradea Publishing House; 3. Decun M., 2007, <i>Animal and environmental hygiene</i> , Mirton Publishing House, Timișoara; 4. A. Jompan, <i>Igiena comunitara</i> , Eurostampa Publishing House, 2002; 5. Mănescu, S., <i>Hygiene</i> , Medical Publishing House, Bucharest, 1996; 6. Oneț C., 2012, <i>Environmental Hygiene</i> , University of Oradea Publishing House; 7. Vlaicu, Brighita, <i>Hygiene and food ecology</i> , Eurobit Publishing House, Timisoara, 1998.		

* 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 knowledge of environmental hygiene, students acquire complex knowledge in accordance with the partial competencies required for the possible occupations provided by RNCIS. The content of the course is adapted to the requirements of the epistemic community, professional associations and employers in the field of Environmental Engineering.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	Presence at courses and knowledge of matter	Oral exam	70%
10.6 Laboratory	Attendance at seminars and active participation in seminars	Evaluation	30%
10.8 Minimum standard of performance. Ability to respond correctly to 50% of the questions asked			

Date of completion

Signature of course holder**

Signature of seminar
laboratory/project holder **

Lecturer PhD eng. Oneț Cristian
e-mail: cristyonet@yahoo.com

Lecturer PhD eng. Oneț Cristian
e-mail: cristyonet@yahoo.com

Date of approval in the department

Signature of the Head of Department

Associate Professor PhD eng. Laslo Vasile
laslovasile@yahoo.com

Dean signature
Professor PhD eng. Chereji Ioan
ichereji@uoradea.ro

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

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