



Co-funded by the
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Course presentation:

ENVIRONMENTAL MANAGEMENT PRACTICES

ERASMUS+ project "INTEGRATED DOCTORAL PROGRAM FOR ENVIRONMENTAL POLICY, MANAGEMENT AND TECHNOLOGY – INTENSE"

Summary

This 3 ECTS course aims to development of theoretical and practical knowledge about environmental management practices and their application for various industries and companies. It provide students with information about international and UA national legislation, modern approaches and tools. The course contains individual and group assignments aimed at developing practical skills on search and selection of best environmental management practice for each specific case.



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Aims and objectives

The main course objective is to develop basic knowledge on the patterns of functioning of various advanced environmental management practices and to develop skills on search, selection and applying of modern environmental management practices for different cases.

The course is aimed at the following: to introduce existing approaches and ways for development of new practices (large-scale, medium-scale and small-scale ones as well as technical, organizational and institutional ones) for various industries and specific cases; to help PhD students to search and select optimal practices for different cases taking into account specific conditions; to introduce key standards into everyday activity



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Technology
INTENSE
586471-EPP-1-2017-1-EE-EPPKA2-CBHE-JP

General learning outcomes

Knowledge and understanding:

- General scientific (philosophical) competencies aimed at forming a systematic scientific worldview, professional ethics and general cultural outlook
- Ability to use methods and principles of modern scientific knowledge in their professional activities
- Skills of academic communication in a foreign language, including the presentation of research results
- Ability to generate new ideas and form new knowledge and professional practice, to solve integrated problems in the field of Earth sciences
- Ability to develop, implement and manage research projects in the field of Earth sciences
- Ability to work in an international level
- Ability to justify the choice of methods and places of observation of the environment
- Ability to develop science-based recommendations to support management decisions in conservation and restoration activities

Skills:

- To develop scientifically sound recommendations to support management decisions in business
- To perform environmental project management



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Environmental Policy, Management and
Technology
INTENSE
586471-EPP-1-2017-1-EE-EPPKA2-CBHE-JP**

Syllabus



Environmental Management Practices

Spring semester, 2021-2022

The course is proposed for students in the academic year 2020-2021 as an optional one.

Coordinator	Utkina Kateryna
Credits	3 ECTS (optional course), 24 in-class hours
Lecturers	Kateryna Utkina (Karazin Institute of Environmental Sciences, V.N. Karazin Kharkiv National University, Ukraine)
Level	PhD students
Host institution	Karazin Institute of Environmental Sciences, V.N. Karazin Kharkiv National University, Ukraine
Course duration	February - May

Summary

This 3 ECTS course aims to development of theoretical and practical knowledge about environmental management practices and their application for various industries and companies. It provide students with information about international and UA national legislation, modern approaches and tools. The course contains individual and group assignments aimed at developing practical skills on search and selection of best environmental management practice for each specific case.

Target student audiences

PhD students, study program – Constructive Geography and Sustainable Use of Natural Resources; Earth Sciences (Code No. 103)

Prerequisites

- Required courses (or equivalents):
- Philosophy of Science;
 - Science Methodology;
 - Environmental Policy and Management;
 - Natural Resource Science.

Aims and objectives

The main course objective is to develop basic knowledge on the patterns of functioning of various advanced environmental management practices and to develop skills on search, selection and applying of modern environmental management practices for different cases.



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Page 1



The course is aimed at the following: to introduce existing approaches and ways for development of environmental management practices (large-scale, medium-scale and small-scale ones as well as technical, institutional and institutional ones) for various industries and specific cases; to help PhD students to search and select optimal practices for different cases taking into account specific conditions; to introduce key standards (ISO9001 and ISO14000) into everyday activity.

Learning outcomes:

At the end of the course, successful students will have:

Knowledge and understanding:

- General scientific (philosophical) competencies aimed at forming a systematic scientific worldview, professional ethics and general cultural outlook
- Ability to use methods and principles of modern scientific knowledge in their professional activities
- Skills of academic communication in a foreign language, including the presentation of research results
- Ability to generate new ideas and form new knowledge and professional practice, to solve integrated problems in the field of Earth sciences
- Ability to develop, implement and manage research projects in the field of Earth sciences
- Ability to work in an international level
- Ability to justify the choice of methods and places of observation of the environment
- Ability to develop science-based recommendations to support management decisions in conservation and restoration activities
- To develop scientifically sound recommendations to support management decisions in business
- To perform environmental project management

Number of sessions and teaching methods

The course combines interactive group and individual self-reflective methods of teaching and learning. The course includes in-class work (lectures, practical works and seminars) and independent work. There are two sections:

1 – European legislation,

- Topic 1. Management of transboundary water bodies.
- Topic 2. Transboundary air pollution.
- Topic 3. Biosafety and international practices for environmental protection.
- Topic 4. Transboundary transportation of hazardous wastes.

2. Environmental management practices: specific cases.

- Topic 5. Project writing.

Page 2



- Topic 6. Life cycle assessment.
- Topic 7. Case studies.

Topics of practical works and seminars:

- Blue Growth and Blue Economy.
- Integrated Coastal Zone Management: case study.
- Directive on Industrial Emissions.
- European eco-network: potential and options for Ukraine.
- CITES Convention: EU, UA cases, ways for integration of EU practices into UA context.
- Waste Framework Directive.
- Life cycle analysis: case studies.
- Environmental Management Practices: case studies.

Course workload

The table below summarizes course workload distribution:

Activities	Learning outcomes	Assessment	Estimated workload (hours)
In-class activities			
Lectures	Understanding of basics, concepts, methodology and tools of application of environmental management practices for specific cases	Class participation	4
Practical works	Ability to perform search, analysis, selection and integration of EU legislation, concepts and approaches into UA context. Ability to perform search, analysis, selection and integration of advanced environmental management practices for industries and companies. Ability to develop and write project proposals. Ability to perform life cycle assessment	Paper assignments and presentations	6
Seminars	Understanding of key topics proposed for analysis and discussion	Class participation and preparedness for assignments	14
Independent work			
Individual assignments:	Ability to find related literature and data, to interpret data, to identify factors, to perform analysis and visualization of information.	Quality of presentations and paper assignments	40
- Development of presentations			
- Writing paper assignments			

Page 3



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The course is available on the KGNU Moodle

<https://dist.karazin.ua/>



The screenshot shows a Moodle course page for 'Environmental Management Practices'. The course title is circled in orange. The page includes a navigation menu on the left with options like 'Управление курсом', 'Редактировать настройки', 'Пользователи', 'Фильтры', 'Отчеты', 'Настройка журнала оценок', 'Значки', 'Резервное копирование', 'Восстановить', 'Импорт', 'Очистка', and 'Банк вопросов'. The main content area lists course materials under 'Section 1 - European legislation', including 'Topic 1. Management of transboundary water bodies' with a presentation, 'Water Framework Directive', 'Topic 2. Transboundary air pollution' with a presentation, 'EEA - Transboundary air pollution', and 'Topic 3. Biosafety and international practices for environmental protection' with a presentation. A 'Режим редактирования' button is visible in the top right corner of the course content area.

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Environmental Policy, Management and
Technology
INTENSE
586471-ERP-1-2017-1-EE-ERPKA2-SVNE-JP**

Types and forms of classes, methods of interaction between teacher and student



The course “**Environmental Management Practices**” is studied in the 4-th semester in PhD program and consists of 2 sections (4 + 3 topics) and ends with a pass-fail test.

The course includes

- theoretical material,
- practical works and seminars and recommendations for their implementation,
- questions for self-examination
- knowledge control (in particular, midpoint and final tests).

The course consists of a complex of 2 lectures, 3 practical works, 5 seminars and a final test.

For individual consultations – “Forum” and "Chat".

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INTENSE
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The course is divided into 2 sections (4+3 topics in each):

Section 1 - European legislation

- Topic 1. Management of transboundary water bodies
 - Presentation
 - Water Framework Directive
 - Water Framework Directive
- Topic 2. Transboundary air pollution
 - Presentation
 - EEA - Transboundary air pollution
- Topic 3. Biosafety and international practices for environmental protection
 - Presentation
 - Biosafety directives and advisories
 - Directive 2000/54/EC - biological agents at work
- Topic 4. Transboundary transportation of hazardous wastes
 - Presentation
 - Veolia's Integrated Waste Management Facility (IWMF) off Old Kent Road in Southwark, London
 - Veolia's Integrated Waste Management Facility (IWMF) off Old Kent Road in Southwark, London
 - BATREC - Return Batteries and Accumulators

Section 2 - Environmental management practices: specific cases

- Topic 5. Project writing
 - Presentation
 - Proposal Writing Basics
 - Introduction to Proposal Writing
 - Project Proposal Writing: How To Write A Winning Project Proposal
- Topic 6. Life cycle assessment
 - Presentation
 - Life Cycle Assessment
 - LCA: Intro To Life Cycle Assessment
 - Life-cycle Analyses - Nivea
 - LCA - T-Shirt
 - LCS - plastic bottle
- Topic 7. Case studies
 - From Flush to Finish
 - Environmental Impact Assessments
 - Water footprint network
 - Water footprint calculator
 - Water footprint maps
 - Best Environmental Practices for Auto Repair

General section

Environmental Management Practices

В начало / Курсы / ННІ екології / EMP

Настройки

Управление курсом

Редактировать настройки

Пользователи

Фильтры

Отчеты

Настройка журнала оценок

Значки

Резервное копирование

Восстановить

















Объявления	←	announcements
Syllabus	←	syllabus
Критерії оцінювання	←	grading system
Розклад	←	schedule
Загальна інформація	←	general information
Консультації	←	consultations



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Each topic contains:

Section 1 - European legislation

-  Topic 1. Management of transboundary water bodies  text of lecture
-  Presentation  presentation
-  Water Framework Directive  additional docs
-  Water Framework Directive
-  Topic 2. Transboundary air pollution
-  Presentation
-  EEA - Transboundary air pollution  video
-  Topic 3. Biosafety and international practices for environmental protection
-  Presentation
-  Biosafety directives and advisories
-  Directive 2000/54/EC - biological agents at work  links to web-sites

Each lecture is accompanied by PowerPoint Presentation that covers main theoretical issues of the lecture:

Topic 7. Case studies

- From Flush to Finish
- Environmental Impact Assessments
- Water footprint network
- Water footprint calculator
- Water footprint maps
- Best Environmental Practices for Auto Repair



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Practical works and seminars are given



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INTENSE
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Practical works and seminars

-  Practical work 1 - Integrated Coastal Zone Management: case study
-  Practical work 2 - European eco-network: potential and options for Ukraine
-  Practical work 3 - Life cycle analysis: case studies
-  Seminar 1 - Blue Growth and Blue Economy
-  Seminar 2 - Directive on Industrial Emissions
-  Seminar 3 - CITES Convention: EU, UA cases, ways for integration of EU practices into UA context
-  Seminar 4 - Waste Framework Directive
-  Seminar 5 - Environmental Management Practices: case studies

Test preparation, execution and validation

Навигация по тесту

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20				

Закончить попытку...

Начать новый просмотр

Настройки

Управление тестом

Вы можете просмотреть этот тест, но в случае реальной попытки, Вы
В настоящее время этот тест недоступен

Вопрос 1

Пока нет ответа

Балл: 1,00

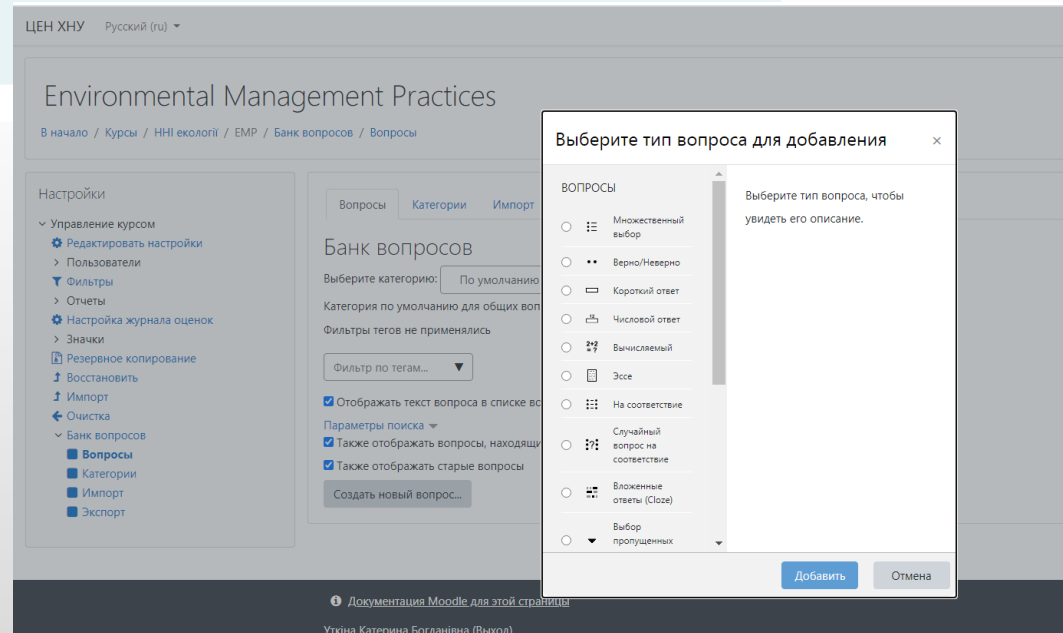
Отметить
вопрос

Редактировать
вопрос

It is the only standard in the ISO 14000 family that can be used for certification

Выберите один ответ:

- a. ISO 14004
- b. ISO 14001
- c. ISO 14010



ЦЕН ХНУ Русский (ru)

Environmental Management Practices

В начало / Курсы / НИИ экологии / ЕМР / Банк вопросов / Вопросы

Настройки

- Управление курсом
 - Редактировать настройки
 - Пользователи
 - Фильтры
 - Отчеты
 - Настройка журнала оценок
 - Значки
 - Резервное копирование
 - Восстановить
 - Импорт
 - Очистка
 - Банк вопросов
 - Вопросы
 - Категории
 - Импорт
 - Экспорт

Вопросы Категории Импорт

Банк вопросов

Выберите категорию: По умолчанию

Категория по умолчанию для общих воп

Фильтры тегов не применялись

Фильтр по тегам...

Отображать текст вопроса в списке вс

Параметры поиска

- Также отображать вопросы, находящи
- Также отображать старые вопросы

Создать новый вопрос...

Выберите тип вопроса для добавления

Вопросы

- Множественный выбор
- Верно/Неверно
- Короткий ответ
- Числовой ответ
- Вычисляемый
- Эссе
- На соответствие
- Случайный вопрос на соответствие
- Вложенные ответы (Cloze)
- Выбор пропущенных

Выберите тип вопроса, чтобы увидеть его описание.

Добавить Отмена

Документация Moodle для этой страницы

Уткина Катерина Богдановна (Выход)

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Gradebook setup

&

Achievement results

Настройки

- Управление модулем «Страница»
 - Редактировать настройки
 - Фильтры
 - Разбивка по компетенциям
 - Журнал событий
 - Резервное копирование
 - Восстановить
- Управление курсом

Критерії оцінювання

Grading

The following table defines the criteria for evaluating the student's work in studying the materials of the course. As a result, the student is able to get a maximum

In the course of studying the course a student receives points for performing various tasks.

Educational activity	Max	Min
In-class discussions during lectures	4	2
Practical work 1	8	4
Practical work 2	9	5
Practical work 3	10	5
Seminar 1	5	2
Seminar 2	6	3
Seminar 3	6	3
Seminar 4	6	3
Seminar 5	6	3
Final control	40	20
Total	100	50

At the end of the course the student will have an exam. Grading system is presented below:

Scores	Mark
90 – 100	Excellent
70-89	Good
50-69	Satisfactory
1-49	Not passed



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