

DETAILED COURSE OUTLINE

1. Course Name: Environmental Management

Course code: ENMA134510

2. Number of Credits: 3 credits (3: 0: 6) (3 theoretical credits, 0 practical/experimental credits)

Total time: 15 weeks (3 theoretical periods + 0 practical period + 6 self-study periods per week)

3. Course lecturers:

1 / Major responsibility: MSc. Nguyen Thi Tinh Au

2 / List of another lecturers:

2.1 / MSc. Nguyen Ha Trang

2.2 / MSc. Nguyen Thi Thu Thao

4. Prerequisites:

Prerequisite subjects: None

Previous subjects: General environment

5. Course description:

The course refers to the knowledge of environmental management, methods of establishing environmental standards, monitoring and management tools for qualities of the environment, as well as international environmental standards.

Course goals

<i>Goals</i>	<i>Goal descriptions</i> (Course's contributions to student)	Expected learning outcome
G1	Provide basic knowledge of environmental management: environmental standards; tools and methods in environmental quality management	ELO3

G2	Establish environmental indicators, be aware of environmental standards/technical Regulation in selection and decision-making process in environmental management.	ELO8
G3	Enhance team working skills and systematic problem solving. Be able to read documents of environmental management in Vietnamese/English version.	ELO10
G4	Apply environmental management tools to solve environmental problems.	ELO12, ELO13

6. Course learning outcomes

Course expected learning outcome		Descriptions (After accomplishing this course, students are able to:)	Expected learning outcome
G1	CELO1	Present the concepts regarding to environmental management, objectives as well as the importance and trend in environmental management.	ELO3
	CELO2	Present the environmental management tools	ELO3
	CELO3	Comprehend and the concepts, terms and scope of use of environmental management systems in accordance with ISO 14000	ELO3
	CELO4	Understand how to establish environmental indicators and environmental standards/ regulations to select and make decision in environmental management.	ELO3
G2	CELO5	Determine building process of environmental management system	ELO8
	CELO6	Calculate the environmental quality indices	ELO3
	CELO7	Be aware of the education and propaganda of environmental protection.	ELO8
	CELO8	Read English documents, especially in environmental management.	ELO10
G3	CELO9	Be skillful in group discussion and group working.	ELO10

	CELO10	Present specialized scientific issues	ELO8
G4	CELO11	Build environmental management program	ELO12
	CELO12	Apply environmental management tools	ELO13

7. Learning Materials

- Books, essential textbook: Textbook of Environmental quality management, Nguyen Van Phuoc

- References:

[1] The Law on Environmental Protection, Tong hop Publisher, 2007

[2] ISO 14001: 2005 Environmental Management System - A guide to principles, systems and supportive technologies

[3] ESCAP, Guidelines for the methodology of monitoring of water, air, hazardous waste, INFOTERRA, Vietnam/United Nations/ESSA Tech, Ltd., 1994

8. Student assessment

- Grade scale: 10

- Assessment plan:

Assessment	Contents	Schedule of progress	Assesment methods	Expected Learning Outcome	Grading weight (%)
Subtest					10
Exercise #1	Establishing environmental management standards	3 rd Week	Subtest	ELO3	5
Exercise #2	Exercise of the environmental quality indices	6 th Week	Subtest	G2.2 ELO3	5
Essay - Report					15
Exercise #3	Study materials and present the building process of management system ISO	5-10 th Week	Presentation	ELO13, ELO10, ELO8	15
Assignments					15
Assignment #1	Design environmental communication program	3-5 th Week	Presentation	ELO10, ELO8, ELO12	15

Final exam				50
	- Including the contents fullfilling all the important expected learning outcomes of the course. - 60 - 90 minutes duration.		Writing test	ELO3 ELO8 ELO10 ELO12 ELO13
				50

9. Detailed contents of course:

Week	Contents	Expected Learning Course outcome
	Chapter 1: General introduction of environmental management (3/0/6)	
1	Teaching content in classroom (3) + The concepts regarding to environmental management + The importance of environmental management + The objectives of environmental management + The content of the environmental management + The trend of environmental management Summary of teaching methodology: + Speech + Slide presentation (Powerpoint) + Group discussion	CELO2, CELO3, CELO9
	B/ The contents of home self-study (6) + Find out more about the quality of Environment in Vietnam and the reality situation of environmental management. - List the essential leaning materials + Internet	
2-5	Chapter 2: Environmental management tool (12/0/24)	

	<p>A / Teaching contents in classroom (12)</p> <ul style="list-style-type: none"> + Selection criteria for environmental management tools + Controlling and commanding tools + Economic tools in environmental management + Environmental education + Means of environmental communications <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> + Speech + Slide presentation (Powerpoint) + Group discussion 	<p>CELO2, CELO3, CELO5, CELO7, CELO9</p>
	<p>B / Self-study contents (24)</p> <ul style="list-style-type: none"> + Studying more about legal tools + Group exercises <p>List of necessary learning materials</p> <ul style="list-style-type: none"> + Law on environmental protection, Tong hop Publisher, 2007 	
	<p>Chapter 3: Environmental management system ISO 14000 (12/0/24)</p>	
6-9	<p>A / Teaching contents in classroom (12)</p> <ul style="list-style-type: none"> + Overview of ISO 14000 + The requirements of ISO 14000 + Guide to build documentary systems in accordance with ISO 14000 + Internal audit in accordance with ISO 14000 <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> + Speech + Slide presentation (Powerpoint) + Group discussion 	<p>CELO3, CELO6, CELO7, CELO8, CELO9, CELO11, CELO12</p>
	<p>B / Self-study contents (24)</p> <ul style="list-style-type: none"> + Studying more about ISO 14000 + Group exercises <p>List of necessary learning materials</p> <ul style="list-style-type: none"> + ISO 14001: 2005 Environmental management system - A guide to principles, systems and supportive technologies 	
10-11	<p>Chapter 4: Environmental quality index (6/0/12)</p>	

	<p>A / Teaching contents in classroom (6)</p> <ul style="list-style-type: none"> + Introduction of environmental index + Air quality index + Water quality index + Soil quality index + Biological index + Socio-economic index <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> + Speech + Slide presentation (Powerpoint) + Group discussion + Exercises 	<p>CELO3, CELO6, CELO7, CELO8, CELO9, CELO11, CELO12</p>
	<p>B / Self-study contents (12)</p> <ul style="list-style-type: none"> + Studying more about the countries' environmental indicators in the world <p>List of necessary learning materials</p> <ul style="list-style-type: none"> + Textbook of Environmental quality management, Nguyen Van Phuoc 	
12-13	<p>Chapter 5: Establishing environmental quality standards (6/0/12)</p>	
	<p>A / Teaching contents in classroom (6)</p> <ul style="list-style-type: none"> + Concepts of environmental standards and regulations + Air quality standards + Surface water quality standards + Environmental standards for industry + Noise standards ... <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> + Speech + Slide presentation (Powerpoint) + Group discussion 	<p>CELO3, CELO6, CELO7, CELO8, CELO9, CELO11, CELO12</p>
	<p>B / Self-study content (12)</p> <ul style="list-style-type: none"> + Studying more about the countries' environmental standards in the world. <p>List of necessary learning materials</p> <ul style="list-style-type: none"> + Textbook of Environmental quality management, Nguyen Van Phuoc 	

	Chapter 6: Environmental quality monitoring (6/0/12)	
14-15	A / Teaching content in classroom (6) + Introduction of environmental monitoring + Water quality monitoring + Air quality monitoring + Monitoring system in Vietnam Summary of teaching methodology: + Speech + Slide presentation (Powerpoint) + Group discussion	CELO3, CELO6, CELO7, CELO8, CELO9, CELO11, CELO12
	B / Self-study contents (12) + Learn more about soil, radiation monitoring system... List of necessary learning materials + ESCAP, Methodological guidelines for monitoring water, air, hazardous waste, INFOTERRA, Vietnam/United Nations/ESSA Tech, Ltd., 1994	

10. Scientific ethics:

+ If any exercises, translations are found to be copied from Internet, these students will be deducted 100% of the process grade. In case of severe infringement, final exam will be banned from all students making unauthorized copy.

+ Students who do not complete the tasks (item 9) will be suspended and proposed to be disciplined.

+ Sinh viên thi hộ thì cả hai người thi hộ và nhờ thi hộ sẽ bị đình chỉ học tập hoặc bị đuổi học.

+ Both students who are accused of taking an exam in the name of the other and students who ask someone to help to take the exam will be suspended or expelled.

11. Date of first approval:

12. Approval by:

Dean of the faculty

Head of department

Editorial Group

13. The process of updating course outline

1 st : updated content: Date	<Who updating needs to sign and write full name> Head of Department:
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