# **Course Syllabus**

1. Course Title: General Environment

2. Course Code: GREN133110

**3. Credit Units:** 2 (2/0/4) (2 units of theory/ 0 unit of practice/ 4 units of self-study)

Duration: 10 weeks (3 hours of theory+0 hours of practice, and 6 hours of self-study per

week)

#### 4. Course Instructors

1/ MSc. Nguyen Thi Thu Thao2/ MSc. Nguyen Ha Trang

## 5. Course Requirements

Prerequisite courses: None Previous courses: None Parallel courses: None

## 6. Course Description

The course refers scientific knowledge on: The environment and the relationship between humans and the environment in both positive and negative aspects; Ecological factors and their impact on the environment; The impact on the environment due to population growth and manufacturing operations; Solutions for environmental protection and sustainable development.

#### 7. Course Goals

Goals	Goal Description	Programme ELOs
G1	Present concepts of environment and ecology.	ELO2
G2	Identify environmental issues and determine approaches to natural resources by rational exploitation and usage.	ELO4
G3	Design methods of learning and teamwork.	ELO9

#### 8. Course Learning Outcomes (CLOs)

CLOs		CLO Description	Programme ELOs
G1	CLO1	Present the concepts of environmental science and explain terms related to environment.	ELO2

	CLO2	List of ecological factors and explain their impact on the environment.	
	CLO3	Describe the bio-geo-chemical cycle, ecological succession and apply for environmental protection.	
	CLO4	Present the characteristics of the population and identify the impact of population growth on the environment.	
G2	CLO5	Explain the causes and determine the consequences of environmental pollution.	ELO4
G2	CLO6	Determine rational exploration methods and usage of natural resources toward sustainable development in Vietnam.	ELO4
G3	CLO7	Build teamwork skills.	ELO9

## 9. Learning Resources

- Textbooks:
  - 1. Textbook of General Environment. HCMC National University Press, 2015.
- References:
  - 1. Le Van Khoa et al. Environment and environmental protection education. Vietnam Education Publishing House, 2009.
  - 2. Le Thi Thanh Mai. Textbook of Environment and People. HCMC National University Press, 2009.
  - 3. Ministry of Education and Training. Textbook of Human and Environment. Vietnam Education Publishing House, 2011.

## 10. Student Assessment

Grading scale: 10 Assessment plan:

Туре	Content	Timeline	Assessment method	CLOs	Rate (%)
	Assigments				15
BT#1	Draw and describe the bio-geo- chemical cycle	Week 5	Subtest	CLO3	5
BT#2	Classify natural resources.  Apply the tools to effectively manage these resources.	Week 7	Subtest	CLO5, CLO6	5
BT#3	Determine the rate of population growth, forecast population	Week 9	Subtest	CLO4	5

growth rate				
Processing test				20
Quiz	Week 8	Test	CLO1, CLO2, CLO3, CLO4	20
Assay				15
Students are required to read materials and learn about a topic of environmetal issues and give the presentation on the chosen topic.	Week 4-15	Report	CLO 6, CLO7	15
Final exam				50
Covering contents of all the important course outcomes.		Quiz	CLO1, CLO2, CLO3, CLO4, CLO5	50
Total			100	

# 11. Course Content

Week	Content	CLOs
	Chapter 1: Introduction to environmental science (3,0,6)	
	A/ Content and pedagogical methods in class: (3)	CLO1,
	Content:	CLO2
	1.1 Concept of environment	
	1.2 Environmental classification	
	1.3 The relationship between humans and the environment	
1	1.4 The principal function of the environment	
1	1.5 Environmental issues in the world and in Vietnam	
	Pedagogical methods:	
	+ Presentation of lecture	
	+ Focus group discussion	
	B/ Self-study content: (6)	CLO1
	1.6 The crucial responsibility of human for the environment	
	1.7 The environmental management tools	

Chapter 2: The essential components of the environment $(6,0,12)$	
A/ Content and pedagogical methods in class: (6)	CLO1,
Content:	CLO2,
2.1 Lithosphere	CLO3,
2.2 Hydrosphere	CLO7
2.3 Atmosphere	
2.4 Biosphere	
Pedagogical methods:	
+ Presentation of lecture	
+ Group discussion	
B/ Self-study content: (12)	CLO1,
2.5 The process of human evolution	CLO2
2.6 The relationship between population, resources and environment	
Chapter 3: The principles of applied ecology on environmental science $(6,0,12)$	
A/ Content and pedagogical methods in class: (6)	CLO1,
Content:	CLO2, CLO3,
3.1 The concept of ecology	CLO7
3.2 The ecological factors and their effect on living organisms	
3.3 Population	
3.4 Community	
3.5 Ecosystem	
3.6 Material cycle and energy flow in ecosystems	
3.7 The impact of humans on the ecosystem	
3.8 Ecologial indicators	
Pedagogical methods:	
+ Presentation of lecture	
+ Group discussion	
+ Individual presentaton	
B/ Self-study content: (12)	CLO1,
3.9 The ecological priciples	CLO5
3.10 The causes and consequences of pollution	
Chapter 4: Natural resources (6,0,12)	
A/ Content and pedagogical methods in class: (6) Content:	CLO1, CLO5, CLO7
	A/ Content and pedagogical methods in class: (6)  Content:  2.1 Lithosphere 2.2 Hydrosphere 2.3 Atmosphere 2.4 Biosphere  Pedagogical methods: + Presentation of lecture + Group discussion  B/ Self-study content: (12) 2.5 The process of human evolution 2.6 The relationship between population, resources and environment  Chapter 3: The principles of applied ecology on environmental science (6,0,12)  A/ Content and pedagogical methods in class: (6)  Content: 3.1 The concept of ecology 3.2 The ecological factors and their effect on living organisms 3.3 Population 3.4 Community 3.5 Ecosystem 3.6 Material cycle and energy flow in ecosystems 3.7 The impact of humans on the ecosystem 3.8 Ecologial indicators  Pedagogical methods: + Presentation of lecture + Group discussion + Individual presentaton  B/ Self-study content: (12) 3.9 The ecological priciples 3.10 The causes and consequences of pollution  Chapter 4: Natural resources (6,0,12)  A/ Content and pedagogical methods in class: (6)

	4.1 Definition and classification of resources	
	4.2 Soil resources	
	4.3 Forest resources	
	4.4 Biological resources	
	4.5 Water resources	
	4.6 Marine resources	
	4.7 Climate resources	
	4.8 Mineral resources	
	4.9 Energy	
	Pedagogical methods:	
	+ Presentation of lecture	
	+ Group discussion	
	+ Individual presentaton	
	B/ Self-study content: (12)	CLO1, CLO5
	4.10 Solid waste	CLOS
	4.11 Environmental disasters and the solutions to environmental	
	protection	
	Chapter 5: Demography and human needs (6,0,12)	
	A/ Content and pedagogical methods in class: (6)	CLO1,
	Content:	CLO2, CLO3,
	5.1 Concept of demography	CLO7
	5.2 The population progression and population structure	
	5.3 History of world population growth and in Vietnam	
	5.4 The relationship between population, environment and natural	
8-9	resources	
	5.5 Demand and activities satisfy human needs	
	Pedagogical methods: + Presentation of lecture	
	+ Group discussion	
	+ Individual presentaton	
	B/ Self-study content: (12)	CLO1,
	5.6 Impact of industrialization, urbanization on environment	CLO5, CLO6
	5.7 Approach in mining and sustainable use of natural resources	CLOU
	3.7 Approach in hinning and sustainable use of natural resources	

A/ Content and pedagogical methods in class: (3)	CLO4,
Content:	CLO5,
6.1 The concept of environmental pollution	CLO6,
	CLO7
6.2 Environmental pollutants	
6.3 Classification of pollution sources	
6.4 Environmental quality standards	
6.5 Water pollution	
6.6 Air pollution	
6.7 Soil pollution	
6.8 Other pollutions	
6.9 Environment and social	
6:10 Environmental protection measures	
Pedagogical methods:	
+ Presentation of lecture	
+ Group discussion	
B/ Self-study content: (6)	CLO3
6:11 Sustainable development	
6.12 The direction and action programme for environmental	
protection	

# 12. Learning Ethics

Students must do homework by themselves. If plagiarism is found students will get zero point.

**13. Date of first approval:** August 1<sup>st</sup>, 2012

# 14. Approved by

Dean	Head of Departmen	Compiler
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A/Prof. Nguyen Van Suc

MSc. Nguyen Thi Minh Nguyet

Nguyen Thi Thu Thao

15. Date and Up-to-date content

1 <sup>st</sup> time: Date: August 25 <sup>th</sup> , 2015	Instructor:
- Update content and structure of the programme adjusted in: teaching content and assessment method	
	Head of Department:
	Dr. Tran Thi Kim Anh