# **Course Syllabus**

- 1. Course title : Introduction to Environmental Technology
- **2.** Course code: GFET130110
- **3. Credit units: 3** (2:1:6) (2 theoretical credits, 1 practical/experimental credits).

Duration : 9 weeks (4 hours of theory + 2 hour of practice + 6 hours of self-study per week)

#### 4. Course intructors:

1/ Ma. Nguyen Thi Tinh Au

2/ Dr.Tran Thi Kim Anh

3/ MSc. Nguyen Ha Trang

#### 5. Course requirements :

Preresiquisite courses : None

Previous course : None

Parallel course : None

#### 6. Course Description :

This module is designed to prepare the definitions and base knowledge of Environmental Technology for the students. It also helps learners to have approach method and methodology when they learn more deeply in this field. Therefore, they will have the orientation of studying ability and career development in the future. This module helps learners to orient careers, softskills and foundation of professional ethics.

### 7. Course Goals

Goals	<i>Goal descriptions</i> (Course's contributions to student)	Programme Expected learning outcome (ELOs)
G1	Basic knowledge about university, Faculty and Environmental Technology.	ELO1
G2	Demonstrate the ability to work as a team leader and as a team member	ELO9
G3	Engineer's role in environment - protecting mission due to the interests of the mass.	ELO12

## 8. Course learning outcomes (CLOs)

•	CLOs	<b>CLOs description</b> (After accomplishing this course, students are able to: )	Programme ELOs
G1	CLO1	Describe the developing history, diagram of organization, educational philosophy and orientation of Faculty of Chemical and Food Technology and Clubs in HCMC University of Technology and Education.	ELO1
	CLO2	Present the output standard of faculty, professional ethics, orientation of specialized training in faculty.	
G2	CLO3	Co-ordinate to accomplish the mission with all members in group.	ELO9
G3	CLO4	Propagandize the awareness of protecting environment in public.	ELO12

## 9. Learning materials

- Textbook :

[1] P. Aarne Vesilind, Susan M. Morgan, Lauren G. Heine (2011), Introduction to Environmental Engineering - SI Version 3rd Edition

[2] Handbook of students in HCMC University of Technology and Education.

- References

[3] Nguyen Thang Vu et al, Environmental careers, Nhat nghe tinh Vocational bookcase, Kim Dong Publishing House.

### 10. Student assessment

- Grade scale: 10
- Assessment plan:

Assessment	Contents	Schedule of progress	Assessement methods	Expected Learning Outcome	Grading weight (%)
Subtest					20
Exercise #1	Learners research the faculty's output, subject's contents and analyze the relationship of them.	Week 2	Group exercise	CLO1 CLO2	10
Assignments					40
Assignment #1	Learners carry out a fact- finding survey in one place and report the actual state.	Week 5	The essay (Report)	CLO2 CLO3	20
	Report the results	Week 9	Presentation	CLO4	20
Final exam					50
	Design and carry out products using materials from domestic waste.	Week 13	Products	CLO2 CLO3 CLO4	

# **11. Detailed contents of course:**

Week	Contents	Expected Learning Course outcome
	Chapter 1: Introduction about HCMUTE (4/2/12)	
	A/ Teaching content in classroom (4)	CLO1
	1.1. Introductuon about UTE: Forming history, vission, mission, training	CLO2
	orientation, size, faculties, offices, framework of organization,)	
	1.2. On behalf of youth and student union, clubs in Chemical and food technology, to exchange and share one's experience about the living and studying environment in UTE	
	Summary of teaching methodology:	
1	- Speech	
	- Group discussion	
	- Using online lesson	
	Method of Examination and Assessment:	
	Exercise (1 minute): thinking about your university	
	<b>B</b> / The contents of home self-study (12)	
	Exercise 1	
	- Learn more about UTE	
	- Materials : www.hcmute.edu.vn	
	Chapter 2: Careers and related knowledge (4/1/10)	
	A/ Teaching content in classroom (4)	CLO1
	2.1. Introduction about catalogue of careers trained in College and University in training education.	CLO4
	2.2. Introduction about Output standard of Chemical and Food Technology.	
	2.3. Introduction about narrow speciality and Faculty's deep-training orientation.	
	Summary of teaching methodology:	
2	- Speech	
	<ul><li>Group discussion</li><li>Using online lesson</li></ul>	
	Method of Examination and Assessment	
	- Questions and responses	
	<i>B</i> / The contents of home self-study (10)	
	Exercise 1	
	- Learn about the environment in Viet Nam and over the world (cont)	
	- Materials: Web of environment and electrical newspaper.	
	Chapter 3: Overview of Environment (12/0/24)	
	A/ Teaching content in classroom (12)	CLO1
	3.1. Environmental Challenges in the 21st century	
3-5	3.2. What does engineer do ?	

	3.3. Ways to realize the environmental problem	
	3.4. Deal with these problems and analyze figures	
	Summary of teaching methodology:	
	- Slide presentation (Powerpoint)	
	- Speech	
	- Group discussion	
	Activities in class:	
	Group discussion	
	- How has the environment changed for 50 years ?	
	- Challenges in management and dealing with the environmental	
	problem in the 21st century	
	<i>B</i> / The contents of home self-study: (24)	
	Assignment #1	
	<b>Chapter 4: Introduction about environmental topics</b> (12/4/32)	
	A/ Teaching content in classroom (12)	CLO1
	4.1. Water Resources, processing sewage and distilled water.	CLO2
	4.2. Atmosphere and processing air pollution	
	4.3. Soil polution and solid waste	
	4.4. Environmental Management	
6-8	Summary of teaching methodology:	
	- Slide presentation (Powerpoint)	
	- Speech	
	- Group discussion	
	<b>B</b> / The contents of home self-study: (32)	
	Assignment #1	
	Chapter 5: SOFTSKILL (4/0/8)	
	A/ Teaching content in classroom (4)	CLO3
	5.1. Core skills in group working	CLU5
	5.2. Make a plan	
	5.3. Method to learn in university	
	5.4. Skills to find out documents, comprehend ones, update information.	
9	5.5. Skills of organizing and joining meeting, skills of designing	
	presentation by using powerpoint and Skills to make a speech, skills of	
	negotiation.	
	5.6. Skills to learn English in communication and in technical area by oneself.	
	Summary of teaching methodology:	
	- Speech	
	- Group discussion	
	<i>B</i> / The contents of home self-study (8)	
	Exercise at the end-of-semester	

#### **12.** Scienctific ethics:

- Learners are not allowed to copy other person's essay or report)
- In report or essay, citations must be clear about origin, name of writers and the published time.
- **13.** Date of first approval: August 1<sup>st</sup>, 2012
- 14. Approval by: Dean Head of Department

Compiler

# Prof. Nguyen Van SucMSc Nguyen Thi Minh NguyetNguyen Thi Tinh Au

# **15.** The process of updating course outline

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