

DETAILED COURSE OUTLINE

- 1. Course Name:** Introduction to Environmental Technology Course code: GFET130110
- 2. Number of Credits:** 3 credits (2: 1: 6) (2 theoretical credits, 1 practical/experimental credits)
Total time: 9 weeks (4 theoretical periods + 2 practical periods + 6 self-study periods / week)

3. Course lecturers:

1 / Major responsibility: MSc. Nguyen Thi Tinh Au

2 / List of another lecturers:

2.1 / MSc. Hoang Thi Tuyet Nhung

2.2 /

4. Prerequisites:

Prerequisite subjects: None

Previous subjects:

5. Course description

This module is designed to prepare the definitions and base knowledge about of Enviromental 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.

6. Course goals

<i>Goals</i>	<i>Goal descriptions</i> (Course's contributions to student)	Expected learning outcome
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G1	Basic knowledge about university, Faculty and Environmental Technology.	ELO1
G2	Operating & Co-ordinating skill	ELO9
G3	Engineer's role in environment- protecting mission due to the interests of the mass.	ELO12

7. Course learning outcomes

Course expected learning outcome		Descriptions (After accomplishing this course, students are able to:)	Expected learning outcome
G1	CELO1	Describe the developing history, diagram of organization and orientation of Faculty of Chemical and Food Technology and Clubs in HCMC University of Technology and Education.	ELO1
	CELO2	Present the output standard of faculty, professional ethics, orientation of specialized training in faculty.	
G2	CELO3	Operate and co-ordinate to accomplish the mission with all members in group.	ELO9
G3	CELO4	Propagandize the awareness of protecting environment in public.	ELO12

8. Learning materials

Books, essential textbook :

[1] Textbooks: Introduction to Environmental Technology, Nguyen Thi Tinh Au, Hoang Thi Tuyet Nhung.

[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.

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All materials, related files and system of exercises will be sent in class's email address.
It is also downloaded in Faculty's web.

10. Student assessment

- Grade scale: 10

- Assessment plan:

Assessment	Contents	Schedule of progress	Assesment 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.	2 th Week	Group exercise	ELO1	10
Assignments					40
Assignment #1	Learners carry out a fact-finding survey in one place and report the actual state.	2 – 5 th Week	The essay (Report)	ELO9 ELO12	20
	Report the results	8 - 9 th Week	Presentation		20
Final exam					50
	Design and carry out products using materials from domestic waste.	10 - 13 th Week	Products	ELO1 ELO9	

9. Detailed contents of course :

Week	Contents	Expected Learning Course outcome
1	Chapter 1: Introduction about HCMC University of Technology and Education (4/2/6)	

	<p>A/ Teaching content in classroom (4)</p> <p>1.1. Introduction about UTE: Forming history, vision, mission, training orientation, size, faculties, offices, framework of organization,...)</p> <p>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</p> <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> - Speech - Group discussion - Using online lesson <p>Method of Examination and Assessment:</p> <p>Exercise (1 minute): thinking about your university</p>	ELO1
	<p>B/ The contents of home self-study (6)</p> <p>Exercise 1</p> <ul style="list-style-type: none"> - Learn more about UTE - Materials : www.hcmute.edu.vn 	
	<p>Chapter 2: Careers and related knowledge (4/1/6)</p>	
2	<p>A/ Teaching content in classroom (6)</p> <p>2.1. Introduction about catalogue of careers trained in College and University in training education.</p> <p>2.2. Introduction about Output standard of Chemical and Food Technology.</p> <p>2.3 Introduction about narrow speciality and Faculty's deep-training orientation.</p> <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> - Speech - Group discussion - Using online lesson <p>Method of Examination and Assessment</p> <ul style="list-style-type: none"> - Questions and responses 	ELO1 ELO12

	<p>B/ The contents of home self-study (12)</p> <p>Exercise 1</p> <ul style="list-style-type: none"> - Learn about the environment in Viet Nam and over the world (cont) - Materials: Web of environment and electrical newspaper. 	
3	<p>Chapter 3: Overview of Environment</p>	
	<p>A/ Teaching content in classroom (15)</p> <p>3.1. Environmental Challenges in the 21st century</p> <p>3.2. What does engineer do ?</p> <p>3.3. Ways to realize the environmental problem</p> <p>3.4. Deal with these problems and analyze figures</p> <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> - Slide presentation (Powerpoint) - Speech - Group discussion <p>Activities in class:</p> <p>Group discussion</p> <ul style="list-style-type: none"> - How has the environment changed for 50 years ? - Challenges in management and dealing with the environmental problem in the 21st century 	ELO1
	<p>B/ The contents of home self-study: (30)</p> <p>Assignment #1</p>	
4-6	<p>Chapter 4: Introduction about environmental topics (12/4/24)</p>	
	<p>A/ Teaching content in classroom (3)</p> <p>4.1. Water Resources, processing sewage and distilled water.</p> <p>4.2. Atmosphere and processing air pollution</p> <p>4.3. Soil pollution and solid waste</p> <p>4.4. Environmental Management</p> <p>Summary of teaching methodology:</p>	ELO1 ELO2

	<ul style="list-style-type: none"> - Slide presentation (Powerpoint) - Speech - Group discussion 	
	<p>B/ The contents of home self-study: (6)</p> <p>Assignment #1</p>	
	<p>Chapter 5: SOFTSKILL (3/0/6)</p>	
7-9	<p>A/ Teaching content in classroom (3)</p> <p>5.1. Core skills in group working</p> <p>5.2. Make a plan</p> <p>5.3. Method to learn in university</p> <p>5.4. Skills to find out documents, comprehend ones, update information.</p> <p>5.5. Skills of organizing and joining meeting, skills of designing presentation by using powerpoint and Skills to make a speech, skills of negotiation.</p> <p>5.6. Skills to learn English in communication and in technical area by oneself.</p> <p>Summary of teaching methodology:</p> <ul style="list-style-type: none"> - Speech - Group discussion 	ELO9
	<p>B/ The contents of home self-study (6)</p> <p>Exercise at the end-of-semester</p>	

10. Scientific 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.

11. Date of first approval:

12. Approval by:

Dean of the faculty

Head of department

Editorial Group

13. The process of updating course outline

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