Course Syllabus

- 1. Course Title: Graduation thesis
- 2. Course Code: GRTH4107210
- 3. Credit Units: 10 (0/10/20) (0 units of theory/ 10 unit of practice/ 20 units of selfstudy) Duration: 15 weeks

4. Course Instructors

- 1/ Assoc. Prof. Nguyễn Văn Sức
- 2/ Other members in EET department and visiting lecturers ...

5. Course Requirements

Students have accumulated at least 134 credits and finished all courses' projects

6. Course Description

This course gives students an opportunity to participate in a major design experience in environmental engineering. Using knowledge and skills acquired in earlier courses of the EET programme, the students are required to design a real-world environmental project under the realistic challenges of environment - economic - society such as designing waste treatment system (water supply, wastewater, solid waste, air pollution), study a new and modern method applied in waste treatment or in environmental management. Depending on the project's complexity, students will work individually or in small teams on a problem statement.

Goals	Goal Description	Programme ELOs
G1	Select suitable professional knowledge and interpreting the experimental results for studying and designing the pollution treatment/management.	ELO3, ELO5
G2	Evaluate the importance of approaching all decisions as well as design solutions carefully, taking into account ethical and future career considerations.	ELO7, ELO8, ELO12
G3	Analysis and design results are well presented in the thesis report and drawings, and in oral defense.	ELO10

7. Course Goals

G4	Judge the impact of design solutions and choose appropriate methods under the realistic challenges of environment – economic	ELO15, ELO16
	– society.	

8. Course Learning Outcomes (CLOs)

CLOs		Description (After accomplishing this course, students are able to:)	Programme ELOs
<u> </u>	CLO1	Design and execute a meaningful research project that demonstrates spatial thinking and uses the professional knowledge.	ELO3
G1	CLO2	Interpreting the results from experiments or calculation for waste treatment system design.	ELO5
G2	CLO3 Evaluate the importance design solutions carefully		ELO7,
	CLO4	Taking into account ethical and future career considerations.	ELO8
	CLO5	Practice the role and responsibility of an environmental engineer toward the society	ELO12
G3	CLO6	Results of analysis and design processes are well reported in the thesis and drawings.	ELO10
	CLO7	The project is successfully presented in oral under an evaluation committee.	ELO10
G4	CLO8	Judge the impact of engineering solutions and choose appropriate models for the project.	ELO15
	CLO9	Analyze the capacity of applying this project into real-world under the constraints of the economic – environment – society for sustainability.	ELO16

9. Learning Resources

- Vietnam and foreign design codes
- Textbooks and references necessary for doing the capstone project

10. Student Assessment

- Grading scale: 10
- The instructor assesses weekly works
- A reviewer assesses the final report and drawings

- A committee (at least 3 members) assesses the oral presentation.
- Rubrics are used for all assessments
- Score is the average of the scores given by the instructor, the reviewer, and the committee's members.

11. Course Schedule / Content

In consultation with the course instructor, each student will develop his or her own work schedule and content for the course. This schedule and content will be assessed by the reviewers to make sure it is suitable for a graduation thesis at the beginning of the semester and revised as needed as the work progresses.

The common schedule is allowing time for the project work to be completed in addition to the thesis preparation, revision and defense.

The basic timetable is described as below: – All work completed by the end of the semester. Registration in next semester not required, however your degree will be dated in the next semester.

Date	Task
Week 1	Prepare work schedule, meet with advisor
Week 2	Assessed by reviewers, adjusted following the comments
Week 3 - 10	Conducting the research
Week 11 - 12	Prepare the thesis draft
Week 13 -14	Revise the thesis
Week 15	Submit the thesis
-	Defense
After defense 2 weeks	Final revision

12. Learning Ethics

Students will not submit the thesis for oral defense in the following cases

- Not completing design requirements
- Plagiarism

13. Date of first approval: August 1st, 2012

14. Approved by

Dean Head of Department Instructor

15. Date and Up-to-date content

1 st time: <date:></date:>	
- <content></content>	Instructor:

Head of Department: