

BOĞAZIÇI UNIVERSITY
Department of Civil Engineering

Syllabus of CE492

1. CE492: Project

2. COURSE INFORMATION

Credits: (0+0+8) 4

Lecture Hours: Friday 14:00-17:00

Lecture Hall: M3120

Office Hours: T 13:00-14:00

3. COURSE INSTRUCTOR

Associate Prof. Serdar SELAMET

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Teaching Assistant

TBA

4. COURSE TEXTBOOK

There are no assigned books; please follow class notes and discussions.

Other Supplemental Materials

N/A

5. COURSE DESCRIPTION (Catalog)

Inter-disciplinary project undertaken by a student, either together with a small team of other students or individually, under the supervision of a faculty member. The object is to enable the student to apply as much of his/her education as possible to the solution of a specific realistic problem. Students are required to meet on a regular basis for consultation with, and report orally to their project supervisor. A written midterm progress report and a final report are required of each student together with at least one oral report to his/her classmates.

Course Type

Required

Prerequisite

Senior year level

Laboratory and Computer Usage

Computer usage is limited to analyzing systems or components of a structure or an infrastructure.

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Grading Policies

Final Report: 40%

Presentation: 15%

Proposal and Interim Reports: 25%

Overall Evaluation: 10%

Environmental and Social, Ethics, Safety Assignment: 10%

6. SPECIFIC GOALS FOR THE COURSE

COURSE LEARNING OUTCOMES

- (1) Complete a design project in one of the relevant civil engineering fields and also utilize other fields to constitute a multidisciplinary study; apply engineering concepts and analysis methods learned throughout the undergraduate program.
- (2) Prepare progress reports and the final report appropriately for the design and present final the results with proper presentations.
- (3) Implement team work throughout the study. Discuss socio-environmental issues and ethical conduct.

STUDENT OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

7. TOPICS COVERED

Introduction and presenting project topics from various fields of Civil Engineering, forming project teams, Introduction to proposal writing; letter of intent; request for proposal, Step-by-step proposal writing including methodology, organization chart, project schedule, project cost, and resumes, Project implementation: how to start and organize a project from A to Z. Design brief and its table of contents, Design Criteria, Write a formal design criteria about your Project

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Weeks	Topics	Deliverables	Presentations
1	Intro to Course Engineering and Civilization Engineering Disasters	-	Henry Petroski https://youtu.be/gnbc6laqx9s
2	Announcement of Projects Project Proposal Content	-	Quiz – Reading assignment
3		Proposal Submission	Proposal Presentations
4	Engineering Safety		
5	Preliminary Design Report Content Engineering Analysis Report Content		
6	Sustainability		
7		Progress Form I	
8		Preliminary Design Report Submission	
9	Environmental Impact		
10			
11	Energy efficiency	Progress Form II	
12		Engineering Analysis Report Submission	Preliminary Design and Engineering Analysis Presentations
13	Engineering Ethics	Ethics Assignment	Ethics presentation ?
Labor Day			
Last Day of Classes			
		Final Report	Final Presentations