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| Course unit title: | Senior Project | | |
| Course unit code: | CE 495 | | |
| Type of course unit: | Compulsory | | |
| Level of course unit: | Bachelor (1st Cycle) | | |
| Year of study: | 4 | | |
| Semester when the unit is delivered: | 8 (Spring) | | |
| Number of ECTS credits allocated : | 6 | | |
| Name of lecturer(s): | Dr. Petros Christou | | |
| Learning outcomes of the course unit: | <ol style="list-style-type: none"> 1. Identify, formulate and solve civil engineering related problems, using established methods. 2. Review, retrieve, analyse and evaluate information from different sources related to civil engineering applications, select and report important information related to the assigned project. 3. Develop research skills to acquire new knowledge and demonstrate oral and written communication skills. 4. Apply knowledge in practice and use the appropriate tools, methods and opportunities for problem solving. 5. Assess, collect, interpret, order information and employ logical thinking to solve a problem. 6. Formulate a time schedule for the project and plan its execution from start to finish. 7. Conclude the project with a written report and defend the work in an oral presentation in front of peers and faculty. | | |
| Mode of delivery: | Independent project, Regular meetings with advisor | | |
| Prerequisites: | CE490 | Co-requisites: | None |
| Recommended optional program components: | | | |
| Course contents: | <p>To satisfy the requirements of the program, students must successfully complete a Final Year Project in the content of Civil Engineering. This is achieved through a two-semester course sequence (CE490 and CE495) that students must complete during their senior year (last two semesters of their studies). This is an individual project which each student must complete with the supervision of a three member committee headed by the student faculty advisor. Each student is free to choose the topic of their project which has to be relevant to the area of Civil Engineering that the student is interested in. In addition the student must choose a faculty advisor and also two other faculties to serve on his supervisory committee.</p> <p>With the Senior Year Project (CE495) course, students must accomplish the objectives specified in their project proposal in CE490 according to the specified planning. In this second part of the project the students must perform the bulk of the project work. They have to create the required models, execute the analyses, conduct the necessary experiments, construct any experimental devices and complete the project.</p> <p>By the end of the course, the student must submit to the Department of Civil Engineering a project report that includes the project objectives and contributions, a literature review on the topic of their project, the methodology used and the results achieved. Finally, the students must present their project work to their supervisory committee, other faculty members and their classmates.</p> | | |
| Recommended and/or required reading: | | | |

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| Textbooks: | "The Elements of Technical Writing (Elements of Series)", Gary Blake and Robert W. Bly, Longman; 1 Edition. |
| References: | Students are expected to reference a number of books, periodicals and other referenced material relevant to their work. |
| Planned learning activities and teaching methods: | This course consists of individual work. Each student has regular meetings with its advisor where they discuss the progress of the project and plan for the future work. At the end of the project each student is required to submit a report. |
| Assessment methods and criteria: | <ul style="list-style-type: none"> • Project Proposal Report: 70% • Oral Presentation: 30% |
| Language of instruction: | English |
| Work placement(s): | No |