Form No: ÜY-FR-0297

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|  | | | | | **ECTS Course Description Form** | | | | | | | | | | | | | | | | | | | | | | |
| **PART I ( Senate Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Offering School** | College of Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Offering Department** | Civil Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Program(s) Offered to** | Civil Engineering | | | | | | | | | | | | | Must | | | | | | | | | | | | | |
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| **Course Code** | CE 491 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Name** | Senior Project I | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Language of Instruction** | English | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Type of Course** | Internship, Independent Work | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Level of Course** | Undergraduate | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Hours per Week** | **Lecture:** - | | | | | **Laboratory: -** | | | | **Recitation:** - | | **Practical: 2** | | | | | **Studio:** | | | | | **Other:** | | | | | |
| **ECTS Credit** | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Grading Mode** | Satisfactory / Unsatisfactory | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Pre-requisites** | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Co-requisites** | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Registration Restriction** | - | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Educational Objective** | Testing and evaluating a hypothesis in the area of civil engineering interest. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Description** |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Learning Outcomes** | **LO1** | | | To be able to search source,  To be able to design with analytical, experimental and / or computational methods,  To be able to express the results technically and present in front of the audience | | | | | | | | | | | | | | | | | | | | | | | |
| **LO2** | | |
| **LO3** | | |
| **LO4** | | |
| **LO5** | | |
| **LO6** | | |
| **n..** | | |
| **PART II ( Faculty Board Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Basic Outcomes (University-wide)** | | **No.** | **Program Outcomes** | | | | | | | | | | **LO1** | | | **LO2** | | | **LO3** | | **LO4** | | | | **LO5** | | **LO6** |
| **PO1** | **Ability** to communicate effectively and write and present a report in Turkish and English. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO2** | **Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO3** | **Recognition** of the need for life-long learning and **ability** to access information, follow developments in science and technology, and continually reinvent oneself. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO4** | **Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO5** | **Awareness** of sectors and **ability** to prepare a business plan. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO6** | **Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **Faculty Specific Outcomes** | | **PO7** | Ability to develop, select and use modern techniques and tools necessary for engineering applications and ability to use information technologies effectively. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO8** | Recognition of the effects of engineering applications on health, environment and safety in the universal and societal dimensions and the problems of the time and awareness of the legal consequences of engineering solutions. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO9** | Ability to identify, define, formulate and solve complex engineering problems; and electing and applying appropriate analysis and modeling methods for this purpose. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **Discipline Specific Outcomes (program)** | | **PO10** | Sufficient knowledge in mathematics, science and civil engineering; and the ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO11** | Ability to design a complex system, process, device or product to meet specific requirements under realistic constraints and conditions of economic, environmental, sustainability, manufacturability, ethics, health, safety, social and political issues; and the ability to apply modern design methods for this purpose. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **PO12** | Ability to design experiments, conduct experiments, collect data, analyze and interpret results for the examination of civil engineering problems. | | | | | | | | | | LO1, LO2, LO3 | | | | | | | | | | | | | | |
| **Specialization Specific Outcomes** | | **PO N….** | **-** | | | | | | | | | | **-** | | | | | | | | | | | | | | |
| **PART III ( Department Board Approval)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects** | | | **Subjects** | **Week** | | | |  | | | | | | **LO1** | | **LO2** | | | **LO3** | | **LO4** | | | | **LO5** | | **LO6** | | |
| **S1** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S2** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S3** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S4** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S5** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S6** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S7** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S8** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S9** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S10** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S11** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **S12** |  | | | |  | | | | | |  | |  | | |  | |  | | | |  | |  | | |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules** | | | **No.** | **Type** | | | | | | **Weight** | | **Implementation Rule** | | | | | **Make-Up Rule** | | | | | | | | | | | | |
| **A1** | **Exam** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **A2** | **Quiz** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **A3** | **Homework** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **A4** | **Project** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **A5** | **Report** | | | | | | 50% | | Students prepare a report related to applications. | | | | | There is no compensation. | | | | | | | | | | | | |
| **A6** | **Presentation** | | | | | | 50% | | Students exhibit their report as a presentation. | | | | | There is no compensation. | | | | | | | | | | | | |
| **A7** | **Attendance/ Interaction** | | | | | | 0% | | Attendance is strongly recommended and obligatory. | | | | | The official rules and regulations of the University apply. Form3 which the University’s career office approves is evaluated for the attendance and interaction. | | | | | | | | | | | | |
| **A8** | **Class/Lab./**  **Field Work** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **A9** | **Other** | | | | | |  | |  | | | | |  | | | | | | | | | | | | |
| **TOTAL** | | | | | | | **100%** | | | | | | | | | | | | | | | | | | | |
| **Evidence of Achievement of Learning Outcomes** | | | Students will demonstrate learning outcomes through the exam/s. Every topic which is included in the internship progress is tested with at least one exam question. Assessment tables are prepared and the internship is evaluated in terms of the suitability of internship location, internship experience and knowledge improvement, structure of the internship presentation, authenticity of the internship, and the ability to take responsibility and duties during the internship is assessed. With the weights given in the evaluation chart, the weighted average grade of each student will be calculated. In order to get a satisfactory grade, a student needs to accumulate certain percentage of points and this percentage is determined by the class mean. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Method for Determining Letter Grade** | | | A final exam is used for grading. The table shows the maximum points to be collected.   |  |  |  |  | | --- | --- | --- | --- | | **C** | Report | Presentation | TOTAL | | **Points** | 50 | 50 | 100 |   Letter grade is determined using the table below:   |  |  |  | | --- | --- | --- | | **Total Points** | 100-60 | 59-0 | | **Letter Grade** | Satisfactory (S) | Unsatisfactory (U) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Teaching Methods, Student Work Load** | | | **No** | **Method** | | | | | **Explanation** | | | | | | | | | | | | | | | **Hours** | | | | | |
| ***Time applied by instructor*** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1** | **Lecture** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **2** | **Interactive Lecture** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **3** | **Recitation** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **4** | **Laboratory** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **5** | **Practical** | | | | |  | | | | | | | | | | | | | | | 28 | | | | | |
| **6** | **Field Work** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **7** | **Project** | | | | |  | | | | | | | | | | | | | | | 32 | | | | | |
| **8** | **Homework** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **9** | **Pre-class Learning of Course Material** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **10** | **Review of Course Material** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **11** | **Studio** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **12** | **Office Hour** | | | | |  | | | | | | | | | | | | | | |  | | | | | |
| **TOTAL** | | | | | | *60* | | | | | | | | | | | | | | | | | | | | |
| **IV. PART** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Instructor** | | | **Name** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **E-mail** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Phone Number** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Office Number** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Office Hours** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Course Materials** | | | **Mandatory** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Recommended** | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Other** | | | **Scholastic Honesty** | | | | | | Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any for of scholastic dishonesty is a serious academic violation and will result in a disciplinary action. | | | | | | | | | | | | | | | | | | | | |
| **Students with Disabilities** | | | | | | Reasonable accommodations will be made for students with verifiable disabilities. | | | | | | | | | | | | | | | | | | | | |
| **Safety Issues** | | | | | | The handling of the course does not require any special safety requirements. | | | | | | | | | | | | | | | | | | | | |
| **Flexibility** | | | | | | Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change.  Students will be notified prior to any changes. | | | | | | | | | | | | | | | | | | | | |