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| antalya bilim Ã¼niversitesi ile ilgili gÃ¶rsel sonucu | **ECTS Course Description Form** |
| **PART I ( Senate Approval)** |
| **Offering School**  | **College of Engineering** |
| **Offering Department** | **Industrial Engineering** |
| **Program(s) Offered to** | **Industrial Engineering** | **Must** |
| **Other Engineering Departments** | **Elective** |
|  |  |
| **Course Code**  | **IE 492** |
| **Course Name** | **Senior Project II** |
| **Language of Instruction** | **English** |
| **Type of Course** | **Practical Work / Project / Field Work** |
| **Level of Course** | **Undergraduate** |
| **Hours per Week** | **Lecture:**  | **Laboratory:**  | **Recitation:**  | **Practical:**  | **Studio:** | **Other:** *2 hours per week per each group* |
| **ECTS Credit** | **6** |
| **Grading Mode** | **Letter Grade** |
| **Pre-requisites** | **IE 491** |
| **Co-requisites** | **-** |
| **Registration Restriction** |  |
| **Educational Objective** | **The main objective of this course is to provide the students the opportunity to apply the knowledge and the skills they have gained throughout their program, in solving a real-world open industrial engineering or multidisciplinary engineering problem.** |
| **Course Description** | **The students apply all their knowledge and skills gained throughout their program to solving an actual engineering problem. It involves applying skills gained in project management, software design and implementation, evaluation and assessment methodology, technical writing and presentation.**  |
| **Learning Outcomes**  | **LO1** | **LO1: Analyze and implement all the stages involved in solving an open computer engineering or a multidisciplinary engineering problem** **LO2: Apply evaluation and assessment methods/tools applicable to engineering projects** **LO3: Write a technical report****LO4: Read scientific/technical literature****LO5: Present an engineering project****LO6: Apply disciplinary, multidisciplinary teamwork skills**  |
| **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.  | *0 0 3 0 3 0**3 0 1 0 1 3**3 0 0 3 0 0* *3 3 0 0 0 1**3 3 0 0 0 3* *3 3 3 0 0 3* |
| **PO2** | **Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams. |
| **PO3** | **Recognition** of the need for life-long learning and **ability** to access information , follow developments in science and technology, and continually reinvent oneself. |
| **PO4** | **Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development. |
| **PO5** | **Awareness** of sectors and **ability** to prepare a business plan. |
| **PO6** | **Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior. |
| **Faculty Specific Outcomes** | **PO7** |  |
| **PO8** |  |
| **PO9** |  |
| **PO10** |  |
| **PO11** |  |
| **PO12** |  |
| **Discipline Specific Outcomes (program)** | **PO13** |  |
| **PO14** |  |
| **PO15** |  |
| **PO16** |  |
| **PO17** |  |
| **PO18** |  |
| **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** | **1** | **Review of the Semester** |  |  |  |  |  |  |
| **S2** | **2-8** | **Weekly meetings and report submission** |  |  |  |  |  |  |
| **S3** | **9** | **Testing (Validation and Verification)**  | **A7** | **A7** |  |  |  |  |
| **S4** | **10-12** | **Weekly meetings and report submission** |  |  |  |  |  |  |
| **S5** | **13** | **Final report submission** |  |  |  | **A5** |  |  |
| **S6** | **14** | **Oral Presentations** | **A6** |  |  |  |  |  |
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| **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** | **30** | **Submitted at the end of the semester** | **No make-up allowed** |
| **A6** | **Presentation** | **30** | **Oral Presentation** | **No make-up allowed** |
| **A7** | **Attendance/ Interaction** | **30** | **Weekly meetings with the project advisor** | **No make-up allowed** |
| **A8** | **Class/Lab./****Field Work** | **10** | **Company/Factory visits** | **No make-up allowed** |
| **A9** | **Other** |  |  |  |
| **TOTAL** | **100%** |
| **Evidence of Achievement of Learning Outcomes** | ***The students are to explain the problem at hand with its constraints based and specific to the field and/or the company/factory that they have been partnering on the Senior Project. The oral presentation along with the report submitted at the end of the semester will be reviewed by the faculty board along with the advisor of the group.*** |
| **Method for Determining Letter Grade** | ***The method on which the letter grade is based on will be announced at the beginning of the semester, and this method may be subjected to change depending on the performance of the students.***

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| **Assessment** | **Report** | **Presentation** | **Interaction** | **Field Work** | **TOTAL** |
| **Points** | **30** | **30** | **30** | **10** | **100** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Total points** | **100 - 95** | **94-90** | **89-85** | **84-80** | **79-75** | **74-70** | **69-65** | **64-60** | **59-55** | **54-45** |
| **Letter Grade** | **A** | **A-** | **B+** | **B** | **B-** | **C+** | **C** | **C-** | **D+** | **D** |

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| **Teaching Methods, Student Work Load** | **No** | **Method** | **Explanation** | **Hours** |
| ***Time applied by instructor*** |
| **1** | **Lecture** |  |  |
| **2** | **Interactive Lecture** |  |  |
| **3** | **Recitation** |  |  |
| **4** | **Laboratory** |  |  |
| **5** | **Practical** |  |  |
| **6** | **Field Work** |  | **2 hrs per week for each project** |
| ***Time expected to be allocated by student*** |
| **7** | **Project** | **The Senior Project is performed under the advising professor, an oral presentation along with a report is expected at the end of the semester.** |  |
| **8** | **Homework** |  |  |
| **9** | **Pre-class Learning of Course Material**  |  |  |
| **10** | **Review of Course Material** |  |  |
| **11** | **Studio** | **-** | **-** |
| **12** | **Office Hour** | **Asking questions to instructor or to the teaching assistant out of class hour.** |  |
| **TOTAL** |  |
| **IV. PART** |
| **Instructor** | **Name** | Asstr. Prof. Dr. Kamer Özgün |
| **E-mail** | kamer.ozgun@antalya.edu.tr |
| **Phone Number** | *+90(242)2450346* |
| **Office Number** | *+90(242)2450346* |
| **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 form of scholastic dishonesty is a serious academic violation and will result in a disciplinary action.** |
| **Students with Disabilities** | **Reasonable accommodations are made for students with verifiable disabilities.** |
| **Safety Issues**  | **Safety of the students and the instructor are maintained by the work insurances covered by either the university or the company/factory that is a co-partner of the Senior Project.** |
| **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.** |