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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | | | | **ECTS Course Description Form** | | | | | | | | | | | | | | | | |
|  | **PART I ( Senate Approval)** | | | | | | | | | | | | | | | | | | | | |
|  | **Offering School** | **Engineering** | | | | | | | | | | | | | | | | | | | |
|  | **Offering Department** | **Computer Engineering** | | | | | | | | | | | | | | | | | | | |
|  | **Program(s) Offered to** | **Computer Engineering** | | | | | | | | | | | **Compulsory** | | | | | | | | |
|  |  | | | | | | | | | | |  | | | | | | | | |
|  |  | | | | | | | | | | |  | | | | | | | | |
|  | **Course Code** | **CS491** | | | | | | | | | | | | | | | | | | | |
|  | **Course Name** | **Project Management in Computer Engineering and Ethics** | | | | | | | | | | | | | | | | | | | |
|  | **Language of Instruction** | **English** | | | | | | | | | | | | | | | | | | | |
|  | **Type of Course** | **Compulsory** | | | | | | | | | | | | | | | | | | | |
|  | **Level of Course** | **Undergraduate** | | | | | | | | | | | | | | | | | | | |
|  | **Hours per Week** | **Lecture: 2** | | | | **Laboratory:** | | | **Recitation:** | | **Practical:** | | | | **Studio:** | | | **Other:** | | | |
|  | **ECTS Credit** | **2** | | | | | | | | | | | | | | | | | | | |
|  | **Grading Mode** | **Letter Grade** | | | | | | | | | | | | | | | | | | | |
|  | **Pre-requisites** |  | | | | | | | | | | | | | | | | | | | |
|  | **Co-requisites** |  | | | | | | | | | | | | | | | | | | | |
|  | **Registration Restriction** |  | | | | | | | | | | | | | | | | | | | |
|  | **Educational Objective** | **The main objective of this course is to provide the students the opportunity to gain necessary background in all the processes involved in project management, design, implementation, and presentation.** | | | | | | | | | | | | | | | | | | | |
|  | **Course Description** | **This course introduces the student with background necessary for solving an open engineering problem. Thus, it can be considered as a course that prepares the students to the Senior Project II course, which is the one where they actually apply all their knowledge and skills gained throughout their program to solving an actual engineering problem.** | | | | | | | | | | | | | | | | | | | |
|  | **Learning Outcomes** | **LO1: Analyse the stages involved in solving an open computer engineering or a multidisciplinary engineering problem** | | | | | | | | | | | | | | | | | | |  |
|  | **LO2: Obtain technical report reading and writing skills** | | | | | | | | | | | | | | | | | | |
|  | **LO3: Gain presentation skills, with an emphasis on presenting engineering projects** | | | | | | | | | | | | | | | | | | |
|  | **LO4: Learn teamwork** | | | | | | | | | | | | | | | | | | |
|  | **LO5: Learn how to apply for a project funding** | | | | | | | | | | | | | | | | | | |
|  | **LO6: Gain insights regarding collaborations involving academia and industry** | | | | | | | | | | | | | | | | | | |
|  | **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 2 2 0 1 0*    *3 0 0 3 0 0*  *1 0 0 0 0 1*  *3 0 0 0 0 3*  *3 0 0 0 0 3*  *1 0 0 0 0 0*  *3 0 0 0 0 0*  *0 0 0 0 0 0*  *3 0 0 0 0 0*  *1 0 0 0 0 0*  *1 0 0 0 0 0*  *2 0 0 0 0 0*  *2 0 0 0 0 0* | | | | | | | | | |
|  | **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 behaviour. | | | | | | | |
|  | **Faculty/ Program Specific Outcomes** | | **PO7** | **Ability** to define complex engineering  problems, develop models and  implement solutions for these  problems | | | | | | | |
|  | **PO8** | **Ability** to conduct lab experiments by using  computers and the ability of collecting, analysing and interpreting data. | | | | | | | |
|  | **PO9** | **Ability** to apply the knowledge of  mathematics, science and engineering  principles to solve problems in computer  engineering. | | | | | | | |
|  | **PO10** | An **understanding** of current contemporary  issues and impact of engineering solutions  in legal and ethical levels | | | | | | | |
|  | **PO11** | **Ability** to understand and apply discrete  mathematics concepts. | | | | | | | |
|  | **PO12** | **Ability** to use modern engineering  techniques, tools and information  technologies and develop software  equipment and software. | | | | | | | |
|  | **PO13** | **Ability** to analyze, design and manage the  hardware/software computer system  requirements with limited resources and  conditions by modern engineering  principles. | | | | | | | |
| **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 | | | Course overview | | | | |  | |  | |  |  | |  |  | |
| **S2** | 2 | | | Funding proposal writing | | | | |  | | A2 | |  |  | | A2 |  | |
| **S3** | 3-7 | | | Seminars from the industry | | | | | A2 | |  | |  |  | |  | A2 | |
| **S4** | 8-9 | | | Seminars from academia | | | | | A2 | |  | |  |  | |  | A2 | |
| **S5** | 10-11 | | | Technical reading/writing | | | | |  | | A2 | |  |  | | A2 |  | |
| **S6** | 12-13 | | | Learning how to do presentations | | | | |  | |  | | A2 |  | |  |  | |
| **S7** | 14 | | | Final meeting with the advisor, proposal submission and presentation to the advisor | | | | | A5,6 | | A5,6 | | A5,6 | A5,6 | | A5,6 | A5,6 | |
| **S8** | 3-14 | | | (In parallel with other subjects) Forming teams and meeting with the advisors. Discussing and finalizing project ideas with team members, literature review, building general project framework | | | | |  | |  | |  |  | |  |  | |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules** | | | **No.** | **Type** | | | | **Weight** | | **Implementation Rule** | | | | **Make-Up Rule** | | | | | | | |
| **A1** | **Exam** | | | |  | |  | | | |  | | | | | | | |
| **A2** | **Quiz** | | | | *30* | | Quizzes regarding subjects S2, S3, S4, S5, S6. Quizzes will be right after the lecture/talk to test whether students have carefully followed the talk and understood the discussed concepts. | | | |  | | | | | | | |
| **A3** | **Homework** | | | |  | |  | | | |  | | | | | | | |
| **A4** | **Project** | | | |  | |  | | | |  | | | | | | | |
| **A5** | **Report** | | | | 35 | | Project proposals shall be written and submitted to the advisor | | | |  | | | | | | | |
| **A6** | **Presentation** | | | | 35 | | Project proposals will be presented to the advisor | | | |  | | | | | | | |
| **A7** | **Attendance/ Interaction** | | | |  | |  | | | |  | | | | | | | |
| **A8** | **Class/Lab./**  **Field Work** | | | |  | |  | | | |  | | | | | | | |
| **A9** | **Other** | | | |  | |  | | | |  | | | | | | | |
| **TOTAL** | | | | | **100%** | | | | | | | | | | | | | |
| **Evidence of Achievement of Learning Outcomes** | | | In order to pass, a student needs to accumulate certain percentage of points and this percentage is determined by the class mean. | | | | | | | | | | | | | | | | | | |
| **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. Letter grades are tentatively determined using the table below. Here “-x” means (average-3-x) and “+x” means (average+3+x), and each denotes the minimum points necessary for the corresponding letter grade.   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Total points** | +25 | +20 | +15 | +10 | +5 | Class Average ± 3 | -5 | -10 | -15 | -20 | | **Letter Grade** | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | | | | | | | | | | | | | | | | | | | |
| **Teaching Methods, Student Work Load** | | | **No** | **Method** | | | | **Explanation** | | | | | | | | | | **Hours** | | | |
| ***Time applied by instructor*** | | | | | | | | | | | | | | | | | | |
| **1** | **Lecture** | | | | Lectures regarding Subjects S1, S2, S5, S6. Presentations by professionals as part of S3, S4. | | | | | | | | | | 1x13=13 | | | |
| **2** | **Interactive Lecture** | | | | Individual meetings with project groups as part of Subjects S7, S8. | | | | | | | | | | 2x6=12 | | | |
| **3** | **Recitation** | | | |  | | | | | | | | | |  | | | |
| **4** | **Laboratory** | | | |  | | | | | | | | | |  | | | |
| **5** | **Practical** | | | |  | | | | | | | | | |  | | | |
| **6** | **Field Work** | | | |  | | | | | | | | | |  | | | |
| ***Time expected to be allocated by student*** | | | | | | | | | | | | | | | | | | |
| **7** | **Project** | | | | Literature review, project proposal writing, proposal presentation | | | | | | | | | | *30* | | | |
| **8** | **Homework** | | | |  | | | | | | | | | |  | | | |
| **9** | **Pre-class Learning of Course Material** | | | |  | | | | | | | | | |  | | | |
| **10** | **Review of Course Material** | | | |  | | | | | | | | | |  | | | |
| **11** | **Studio** | | | |  | | | | | | | | | |  | | | |
| **12** | **Office Hour** | | | | One office hour per week is allocated for students’ questions | | | | | | | | | | 14 | | | |
| **TOTAL** | | | | | *69* | | | | | | | | | | | | | |
| **IV. PART** | | | | | | | | | | | | | | | | | | | | | |
| **Instructor** | | | **Name** | | | | | Cesim Erten | | | | | | | | | | | | | |
| **E-mail** | | | | | cesim.erten@antalya.edu.tr | | | | | | | | | | | | | |
| **Phone Number** | | | | | *+90-242-2450000* | | | | | | | | | | | | | |
| **Office Number** | | | | | *A1-28* | | | | | | | | | | | | | |
| **Office Hours** | | | | | *TBA* | | | | | | | | | | | | | |
| **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** | | | | |  | | | | | | | | | | | | | |
| **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. | | | | | | | | | | | | | |