Form No: ÜY-FR-0311

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| Image result for antalya bilim Ã¼niversitesi | **ECTS Course Description Form** |
| **PART I ( Senate Approval)** |
| **Offering School**  | College of Engineering |
| **Offering Department** | Industrial Engineering |
| **Program(s) Offered to** | Civil Engineering | Compulsory |
| Computer EngineeringIndustrial EngineeringMechanical EngineeringNanotechnology and Material Engineering  |  |
| **Course Code**  | GEN 402 |
| **Course Name** | Occupational Health and Safety II |
| **Language of Instruction** | English-Turkish |
| **Type of Course** | Lecture, Presentation |
| **Level of Course** | Undergraduate |
| **Hours per Week** | **Lecture:** 2 | **Laboratory:** | **Recitation:**  | **Practical:**  | **Studio:** | **Other:** |
| **ECTS Credit** | 2 |
| **Grading Mode** | Letter Grade |
| **Pre-requisites** | Occupational Health and Safety I |
| **Co-requisites** | - |
| **Registration Restriction** | - |
| **Educational Objective** | The aim of the course ; awareness of students about occupational health and safety, learning tasks, responsibilities and legal rights in business life. It is also aimed to gain a culture of occupational safety and awareness in order to work in a healthy and safe environment. |
| **Course Description** | Within the scope of the course, the awareness of the students about occupational health and safety, their duties, responsibilities and legal rights are taught and taught in business life. Moreover, it is aimed to gain awareness and occupational safety culture in order to work in a healthy and safe environment. Occupational Health and Safety Law No. 6331, Labor Law No. 4857, Social Insurance and General Health Insurance Law No.5510 are covered. |
| **Learning Outcomes**  | **LO1** | 1. Define the basic concepts of occupational health and safety2. To have the knowledge and practice ability to contribute to the occupational health and safety culture3. Designing with occupational health and safety priorities4. Taking a proactive approach to prevent work accidents5. Become a part of occupational health and safety risk assessment and management process |
| **LO2** |
| **LO3** |
| **LO4** |
| **LO5** |
| **LO6** |
| **n..** |
| **PART II ( Faculty Board Approval)** |
| **Basic Outcomes (University-wide)** | **No.** | **Program Outcomes** | **LO1** | **LO2** | **LO3** | **LO4** | **LO5** |
| **PO1** | **Ability** to communicate effectively and write and present a report in Turkish and English.  | LO1, LO2, LO3, LO4, LO5 |
| **PO2** | **Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams. | LO1, LO2, LO3, LO4, LO5 |
| **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, LO4, LO5 |
| **PO4** | **Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development. | LO1, LO2, LO3, LO4, LO5 |
| **PO5** | **Awareness** of sectors and **ability** to prepare a business plan. | LO1, LO2, LO3, LO4, LO5 |
| **PO6** | **Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior. | LO1, LO2, LO3, LO4, LO5 |
| **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, LO4, LO5 |
| **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, LO4, LO5 |
| **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, LO4, LO5 |
| **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, LO4, LO5 |
| **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, LO4, LO5 |
| **PO12** | Ability to design experiments, conduct experiments, collect data, analyze and interpret results for the examination of civil engineering problems. | LO1, LO2, LO3, LO4, LO5 |
| **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** |
| **S1** | 1,2,3 | Introduction to the courseWork safety and the total working area and contentsAnalysing occupational accidents and occupational diseases | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S2** | 4,5 | Occupational accident investigation, notification of occupational accidents and responsibilityQualitative risk assessment methods | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S3** | 6-7 | Quantitative risk assessment methods | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S4** | 8 | Midterm Exam | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S5** | 9,,10 | The economic aspect of business security (financial losses) in engineering, the impact of occupational safety/security on manufacturing and productivity | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S6** | 11 | Ergonomics and importance of it | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S7** | 12-13 | The measure of occupational accidents, use of accident frequency and weight ratio | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **S8** | 14 | Final | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 | A1,A3,A5A6, A7 |
| **Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules**  | **No.** | **Type** | **Weight** | **Implementation Rule** | **Make-Up Rule** |
| **A1** | **Midterm Exam** | %30 | Students will be evaluated with a midterm project in mid-semester | The official rules and regulations of the University apply. |
| **A2** | **Quiz** |  |  |  |
| **A3** | **Homework** | %15 | Homeworks will be given for the students over the course content. |  |
| **A4** | **Project** |  |  |  |
| **A5** | **Presentation** | %15 | Students will present a predefined topic in the classroom. |  |
| **A6** | **Final Exam** | %40 | The total content of the course will be evaluated with a final project. | The official rules and regulations of the University apply. |
| **A7** | **Attendance/ Interaction** | %0 | Attendance is strongly recommended and obligatory.  | The official rules and regulations of the University apply. |
| **A8** | **Class/Lab./****Field Work** |  |  |  |
| **A9** | **Other** |  |  |  |
| **TOTAL** | **100%** |
| **Evidence of Achievement of Learning Outcomes** | Students will demonstrate learning outcomes through midterm exams, homework, quiz work, presentation and preparation and the final exam. Every topic is tested with at least one exam question. 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** | Upon successful completion of all assessment methods, the total scores will be averaged and converted into a final letter grade using the following percentages and grading criteria.

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| --- | --- |
| **ASSESSMENT METHOD** | **EFFECT ON GRADING** |
| **Homeworks** | 15% |
| **Presentations** | 15% |
| **Midterm exams** | 30% |
| **Final exam** | 40% |
|  |  |
| **GRADE** | **MARKS** | **GRADE** | **MARKS** |
| A+ | - | C+ | 60-64 |
| A | 95-100 | C | 55-59 |
| A- | 85-94 | C- | 50-54 |
| B+ | 80-84 | D+ | 45-49 |
| B | 75-79 | D | 40-44 |
| B- | 65-74 | F | 0-39 |

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| **Teaching Methods, Student Work Load** | **No** | **Method** | **Explanation** | **Hours** |
| ***Time applied by instructor*** |
| **1** | **Lecture** | Lecturing and utilizing chalkboard/whiteboard. Sample questions and answers. Total number of hours in semester. | 28 |
| **2** | **Interactive Lecture** |  |  |
| **3** | **Recitation** |  |  |
| **4** | **Laboratory** |  |  |
| **5** | **Practical** |  |  |
| **6** | **Field Work** |  |  |
| ***Time expected to be allocated by student*** |
| **7** | **Presentation** | Preparation for presentation | 6 |
| **8** | **Homework** | Pre-Homework | 6 |
| **9** | **Pre-class Learning of Course Material**  |  | 28 |
| **10** | **Midterm Exam** | Midterm and their preparations | 10 |
| **11** | **Final** | Final exam and preparation | 10 |
| **12** | **Office Hour** |  |  |
| **TOTAL** | 60 |
| **IV. PART** |
| **Instructor** | **Name** | Asst. Prof. Dr. Muhammet Fatih AK |
| **E-mail** | fatih.ak@antalya.edu.tr |
| **Phone Number** | 0242 245 02 89 |
| **Office Number** | AG-05 |
| **Office Hours** | 2 hours |
| **Course Materials** | **Mandatory** | Alli ,Fundamental principles of occupational health and safety, Second Edition- International Labour Office - 2008 |
| **Recommended** | Academic journals and papers related to the occupational safety and health. |
| **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.  |