**COURSE CATALOG FORM**

| **Course Code**: OHES 4412 | | | | **Course Name**: Occupational Health and Safety II | | | |
|---|---|---|---|---|---|---|---|
| **Semester** | **Lc + T + L** | **Credit** | **ECTS** | **Language** | **Category** | **Instructional Methods** | **Pre-Requisites** |
| 2024 Spring | | 0 | 2 | English | | Tutorial | N/A |
| **Course Objectives** | | | It is aimed that they have the competency to generally define the hazards, risks and precautions they will encounter in business life, with basic information about the field of occupational health and safety. At the same time, it is to raise awareness about the risk factors that may be encountered. To ensure that graduates who have the potential to work as occupational health and safety specialists have an idea about this branch of science in advance. | | | | |
| **Course Content** | | | The concepts of danger and risk in occupational health and safety, basic risk factors defined in the field of OHS, control measures, sectoral OHS practices, safety and health signs | | | | |
| **Course Learning Outcomes** | | | 1. Describe and exemplify the concept of hazard and risk.<br>2. Defines and classifies risk factors in business environment.<br>3. Plans preventive methods related to risk factors.<br>4. Defines and applies basic risk analysis methods.<br>5. Demonstrate and interpret examples of good practice on a sectoral basis | | | | |
| **ISCED Category of the course** | | | | | | | |
| **Textbook** | | | 4857 labor law and 6331 occupational health and safety law | | | | |
| **Other References** | | | OHS regulations | | | | |

**COURSE PLAN**

| Week | | Laboratory/Tutorial Work |
|---|---|---|
| 1 | Introduction | Tutorial |
| 2 | Safety Culture | Tutorial |
| 3 | Hazard and Risk | Tutorial |
| 4 | Occupational Accidents and Diseases | Tutorial |
| 5 | Safety Signs & Personal Protective Equipment | Tutorial |
| 6 | QUIZ | EXAM |
| 7 | MIDTERM | EXAM |
| 8 | BREAK | BREAK |
| 9 | Occupational Health and Safety Risk Factors – Physical | Tutorial |
| 10 | Occupational Health and Safety Risk Factors – Chemical | Tutorial |
| 11 | Occupational Health and Safety Risk Factors – Biological | Tutorial |
| 12 | Occupational Health and Safety Risks Factors – Ergonomic & Psychological | Tutorial |
| 13 | Risk Analysis | Tutorial |
| 14 | Quiz | EXAM |
| 15 | Industry 4.0 in OHS | Tutorial |

**COURSE ASSESSMENT**

| | Activities | Quantity | Contribution (%) |
|---|---|---|---|
| Semester Activities | Quizzes | 2 | 20 |
| | Reports | | |
| | Seminars | | |
| | Homework | | |

| | | | |
|---|---|---|---|
| | **Oral Presentations** | | |
| | **Midterm Exam** | 1 | 30 |
| | **Project** | | |
| | **Other** | | |
| **FINAL EXAM/TAKE HOME PROJECT** | | 1 | 50 |
| **Total** | | 5 | 100 |

**CONTRIBUTION of the COURSE on BIOMEDICAL ENGINEERING PROGRAM OUTCOMES**

**Contribution degree: 1-low, 2-medium, 3-high**

| | **Electrical and Biomedical Engineering Program Outcomes** | 1 | 2 | 3 |
|---|---|---|---|---|
| 1 | A comprehension of mathematics (algebra, differential, integral and probability), science (physics and chemistry) and fundamentals of computer science (programming and simulation). | 1 | | |
| 2 | Ability to apply knowledge of mathematics, science, and engineering to problems in biomedical electronics engineering. | | 2 | |
| 3 | Ability to recognize the needs and challenges of our age, to assess the global and social impacts of engineering solutions and to have innovative and entrepreneurial awareness. | | 2 | |
| 4 | Comprehension of professional and ethical responsibility. | | 2 | |
| 5 | Ability to design and conduct experiments, as well as to analyze and interpret data. | 1 | | |
| 6 | Ability to identify, formulate and solve problems related with biomedical engineering in complex engineering projects. | 1 | | |
| 7 | Ability to design and integrate biomedical system components to satisfy given requirements. | 1 | | |
| 8 | Ability to take individual responsibilities and to work as part of a team, to have knowledge about the project management and business environment | 1 | | |
| 9 | Ability to effectively communicate knowledge and opinions via written, oral and visual means. | | 2 | |
| 10 | Ability to recognize the need for, and be motivated to engage in life-long learning. | | | 3 |
| 11 | Ability to use the hardware and software based modeling, simulation, design and communication tools necessary for engineering practice. | 1 | | |

**ECTS - WORK LOAD TABLE**

| ACTIVITIES | Quantity | Time (h) | Work Load |
|---|---|---|---|
| **Lectures** | 13 | 3 | 39 |
| **Final Exam (Preparation included)** | 1 | 6 | 6 |
| **Quizzes** | 2 | 2 | 4 |
| **Term Project** | | | |
| **Reports** | | | |
| **Graduation Project** | | | |
| **Seminars** | | | |
| **Out class working time** | 13 | 1 | 13 |
| **Homework** | | | |
| **Presentations** | | | |
| **Midterm Exams (Preparation included)** | 1 | 12 | 12 |
| **Projects** | | | |
| **Laboratory Work** | | | |
| **Total Work Load** | | | |
| **ECTS Credits of the course (Total Work Load / 25)** | | | 74 |

| Revision / Date | Coordinator / Prepared by | Approved by |
|---|---|---|
| **22.02.2023** | **Selden Cepni** | |