

| a) General | | | |
|---|---|--------------------------|-------------|
| <i>School</i> | ENGINEERING | | |
| <i>Academic unit</i> | MECHANICAL ENGINEERING | | |
| <i>Level of studies</i> | Undergraduate | | |
| <i>Course code</i> | MM909E02 | <i>Semester</i> | 9 |
| <i>Course title</i> | Occupational safety - Ergonomics | | |
| <i>Independent teaching activities</i> | <i>Weekly teaching hours</i> | | <i>ECTS</i> |
| Lectures | 4 | | 4.0 |
| Laboratory exercises | | | |
| <i>Course type</i> | Knowledge deepening/consolidation | | |
| <i>Course category</i> | Compulsory Elective for Direction 1/2 | | |
| <i>Prerequisite courses</i> | - | | |
| <i>Language of instruction and examinations</i> | Greek | | |
| <i>Is the course offered to Erasmus students</i> | No | | |
| <i>Course website (url)</i> | https://eclass.uniwa.gr/ | | |
| b) Learning outcomes and general competences | | | |
| b1. Learning outcomes | | | |
| Upon successful completion of this course the student will be able to: | | | |
| <ul style="list-style-type: none"> • Understand the basics and individual characteristics of an accident at work. • Acquire the knowledge related to the methods and techniques of tackling and managing the risk of accidents at work. • Distinguish the main roles of the technical safety and occupational physician in a business. • Use and apply the laws and provisions on safety at work. • Assess and recognize the likelihood, frequency, and addressing the risks of accidents at work. • Analyze and propose safety measures at work. | | | |
| b2. General competences | | | |
| <ul style="list-style-type: none"> - Autonomous work - Decision making - Teamwork - Respect the natural environment | | | |
| c) Syllabus | | | |
| Risk Management systems, Safety and Health Management Systems. Hazards and effects at work. Accident, Risk perception, Risk factors. Occupational risk analysis methods. Error protection. Material Safety Data Sheet. First aid. The microclimate at work, Fire and fire protection, Noise, Electricity hazards, Chemical agents as an occupational hazard, Ergonomic models of work analysis, radiation, signage, risk assessment, occupational risk analysis. | | | |
| d) Teaching and learning methods - Evaluation | | | |
| Delivery | Face-to-face | | |
| Use of information and communications technology | MS Teams and eclass. | | |
| Teaching methods | <i>Activity</i> | <i>Semester workload</i> | |
| | Lectures | 26 | |

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| | Tutorials | 26 |
| | Laboratory exercises | |
| | Computational exercises | |
| | Individual work | 78 |
| | Course total | 130 |
| Student performance evaluation | Final Written examination. Optional job preparation and presentation of up to 20%, less than the proportion of written examination. | |
| e) Suggested bibliography | | |
| <ol style="list-style-type: none"> 1. Κοντογιάννης, Θ. (2016). Εργονομικές προσεγγίσεις στη διοίκηση και διαχείριση της ασφάλειας. Εκδόσεις Τζιόλα. 2. Jeremy Stranks (2017). Επιστημονική επιμέλεια: Κ. Αδάμ – Δ. Ναθαναήλ. Μάνατζμεντ Ασφάλειας και Υγείας των εργαζομένων. Εκδόσεις Rosili. 3. Ζωγόπουλος, Ε. (2004). Υγιεινή και ασφάλεια στην εργασία. Εκδόσεις Κλειδάριθμος 4. Σαραφόπουλος, Ν. (2001). Οδηγός υγιεινής και ασφάλειας της εργασίας. Εκδόσεις Μεταίχμιο 5. Μαρχαβίλας, Π., Κ. (2009). Υγιεινή & Ασφάλεια Εργασίας-Διαχείριση του Επαγγελματικού Κινδύνου. Εκδόσεις Τζιόλα. <p>Web-Sites:</p> <ol style="list-style-type: none"> 1. http://www.elinyae.gr 2. http://www.osh.gr 3. http://www.fireservice.gr 4. European Agency for Safety and Health at Work: http://osha.eu.int 5. International Labour Organization: http://www.ilo.org 6. European Commission. Employment and Social Affairs: http://www.europa.eu.int/comm/employment_social/index_en.htm | | |