



## Course Syllabus

| Course Code                | Course Title   | ECTS Credits   |
|----------------------------|--|--|
| MENG-491                   | Internship   | 6  |
| Prerequisites              | Department   | Semester   |
| Approval by the Department | Engineering  | Fall, Spring, Summer   |
| Type of Course             | Field  | Language of Instruction                                      |
| Elective                   | Engineering  | English  |
| Level of Course            | Lecturer(s)  | Year of Study  |
| 1 <sup>st</sup> Cycle      | Dr Elias Yfantis   | Any year<br>(preferably 3 <sup>rd</sup> or 4 <sup>th</sup> ) |
| Mode of Delivery           | Work Placement   | Corequisites   |
| Face-to-face               | Mechanical Engineering related companies (150-180 hours) | None   |

### Course Objectives:

The main objectives of the course are to:

- Provide real world work experience to the students.
- Allow the students to explore different working options and alternatives.
- Provide specific to targeted company training to the students.
- Allow the students to interact with professional engineers and gain from their experience.
- Give the companies the opportunity to assess the knowledge and capabilities of the students.
- Establish communication between students and companies creating potential employment opportunities.
- Establish communication between companies and the department for further collaboration in training and research.

### Learning Outcomes:

After completion of the course students are expected to be able to:

- Demonstrate knowledge for a subject relevant to the undergone internship.
- Understand professional operations and activities.
- Explain regulations and legal obligations related the internship subject.
- Describe the company's process and comment on their efficiency.
- Understand the market needs and potentials.

- Understand the employers' expectations and demands.
- Acquire further actions to enrich his/her academic and professional profile to match the market requirements.
- Be able to extend his/her theoretic knowledge in a practical extent for the majority of the courses taken in the University.

#### **Course Content:**

- Professional activities relevant to all Mechanical Engineering disciplines such as, but not limited to: computer-aided design and manufacturing, industrial equipment and machinery, power generation, transportation, heating, ventilating and air-conditioning, materials, nanotechnology, mechatronics and robotics, medical devices.
- Practical experience with professional equipment not available in the university.
- Laboratory work at an industrial level.
- Projects developed in collaboration between a company and the university.

#### **Learning Activities and Teaching Methods:**

Laboratories, projects (participate or witness), discussions, trainings, seminars, collaborative work with professionals, meetings (participate or witness).

#### **Assessment Methods:**

During the internship, students are expected to keep a log recording daily the different activities experienced, clearly reporting their involvement. The log will be verified weekly by the student supervisor in the company, monitored and approved by the faculty member responsible for the internship.

After the completion of the internship, the student will submit an analytical report related to his/her work that will include a description of the internship, his feedback on the experience, the logbook as well as a report by the company. The student will be required to present his/her experiences, in a seminar organized by the department.

#### **Required Textbooks / Readings:**

| Title  | Author(s) | Publisher | Year | ISBN |
|--|-----------|-----------|------|------|
| Books and other material may be provided by the host organization. |           |           |      |      |