



EASTERN MEDITERRANEAN UNIVERSITY
Faculty of Engineering
Department of Industrial Engineering
COURSE OUTLINE
Spring 2023-24



COURSE CODE	IENG410	COURSE LEVEL	Senior year
COURSE TITLE	Industrial Training - III	COURSE TYPE	Required
CREDIT VALUE	(0, 0, 1) 0	ECTS VALUE	1
PREREQUISITES	At least 3 of IENG301, IENG313, IENG323, IENG332, IENG372 should be taken & IENG310	CO-REQUISITES	No

Web link	https://ie.emu.edu.tr/en/department/industrial-training			
	Name (group)	e-mail	Office	Telephone
Instructor	Asst. Prof. Dr. Ali Baştaş	ali.bastas@emu.edu.tr	C104	3161
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CATALOG DESCRIPTION

This is the third Industrial Training course for the students. In partial fulfilment of graduation requirements each student is required to complete three industrial training in accordance with rules and regulations set by the Department. The aim of the training is to give students opportunity to observe real world industrial engineering practices in a firm, participate and appreciate interdisciplinary team work, and write a formal report based on the questions and tasks provided in the Log-Book. Additionally, students must identify and define an industrial engineering related problem (IE Problem) in the company, and formulate and propose an acceptable solution based on the knowledge obtained in the curriculum courses. During the training a visit of at least 5 departments is required.

AIMS & OBJECTIVES

This practice must be held in a manufacturing/service organization for a minimum of four weeks, i.e., at least 20 working days. Students will learn various aspects of the organization with the help of answering questions and tasks provided in the Log-Book. Additionally, they are also required to identify, define, formulate an Industrial Engineering related problem observed in the organization and offer an acceptable solution by using industrial engineering techniques taught in the courses. The students will have chance to observe specific manufacturing/service practices, participate and appreciate the importance of interdisciplinary team work, be able to develop an opinion that may help in choosing the sector in which they may wish to work in the future, and select the technical elective courses offered by the Department accordingly.

GENERAL LEARNING OUTCOMES (CLOs)

On successful completion of this course, students are expected to develop **knowledge** and **understanding** of:

- The complexity of real life systems and functions, duties and responsibilities of Industrial Engineers in manufacturing and service sectors
- The basic components and organization of production systems
- Understanding and adaptation to real life working environment
- Real world responsibility that is in many ways different from academic responsibilities
- Problem solving techniques and innovation, research and development activities

On successful completion of this course, students are expected to develop **their skills in**:

- Communicating effectively with co-workers orally and in writing or technical drawing
- Working under direction and in a group efficiently and effectively to solve real world industrial problems
- Functioning in an interdisciplinary team efficiently and effectively
- Technical report writing and technical drawings

On successful completion of this course, students are expected to develop their **appreciation** of, and respect for **values and attitudes** to:

- The role of industrial engineering in real world applications
- The competence of industrial engineers in manufacturing and service sectors

- Professional and ethical responsibility
- Punctuality, and social and analytical skills in real world practices
- The responsibility and ethics of professional practicing engineers, the value of knowledge, experience, and hard working
- The importance of understanding the impact of engineering solutions in global, environmental and societal context

Relationship of Course to Student Outcomes

Student Outcomes	Level of Contribution		
	No	Moderate	High
1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3) an ability to communicate effectively with a range of audiences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REFERENCE BOOKS:

Industrial Training Booklet and Log-book developed by the Department.

COURSE OUTLINE: This is an Industrial Training course and no lectures are designed. There will be no graduation make-up or resit exams. Hence you should do your best to pass the course.

GRADING: There will be no exam for this course. Evaluator of the report may ask students to present their trainings as well. Grading will be based on the report submitted with the following ranges.

Questions:

Below **1.00** will lead to “U” grade for the course.

Between **1.00 – 2.00** will lead to an “**Incomplete**” grade for the course.

Above **2.00** will only mean Questions Part is Satisfactory.

Tasks:

Below **1.50** will lead to “U” grade for the course.

Between **1.50 – 2.50** will lead to an “**Incomplete**” grade for the course.

Above **2.50** will only mean Tasks Part is Satisfactory.

IE-PROBLEM

Below **2.00** will lead to “U” grade for the course.

Between **2.00 – 3.00** will lead to an “**Incomplete**” grade for the course.

Above **3.00** will only mean Questions Part is Satisfactory.