

King Fahd University of Petroleum & Minerals
MECHANICAL ENGINEERING DEPARTMENT
ME 399: Summer Training

Catalogue Description (0-0-0):

A continuous period of 8 weeks of summer training spent in the industry working in any of the fields of mechanical engineering. The training should be carried out in an organization with an interest in one or more of these fields. On completion of the program, the student is required to submit a formal written report of his work.

Status in Curriculum (Required or Elective): Required (offered Summer)

Prerequisites: ENGL 214, Junior standing

Co-requisites: None

Prerequisites by Topics:

- Introduction to Report Writing (ENGL 214)
- Design of mechanical and thermal systems

Textbook: None

References: None

Coordinators: Dr. Jafar Albinmoussa, Mechanical Engineering

Goals:(general objectives)

To give students the opportunity to work in a company where they can benefit from a real-world working environment that will assist them develop their individual and interpersonal team work skills, independence of judgment, work ethics, decision making and problem-solving skills, and utilize their academic background.

Course Outline (Lecture Topics): None

Design Activities/Projects:

Students are encouraged to work on design cases that involves engineering design analysis.

Computer Usage:

Students are encouraged/requested to utilize available computer software in the department such as Microsoft Word, Excel and PowerPoint and addition to SolidWorks, LABVIEW, FLUENT, ANSYS, EES, and MATLAB.

Laboratory:

None

Assessment Tools:

1. Progress reports
2. Final report

Course Learning Outcomes:

- I- The student should gain practical experience in mechanical engineering
- II- The student should demonstrate the ability to analyze industrial mechanical systems using engineering principles
- III- The student should demonstrate the ability to communicate effectively
- IV- The student should demonstrate the ability to work in team

Course Learning Outcomes mapped to Student Outcomes:

Student Outcomes	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>	<i>j</i>	<i>k</i>
Course-to-Student outcome mapping	II			IV	II	I	III				II
Emphasis*	S			M	M	M	S				M

* L: Little/None M: Moderate S: Strong

Status of Continuous Improvement review of this Course:

Date reviewed: 3 March 2015
Prepared by: Dr. Hussain Al-Qahtani

Reviewed by: Dr. Jafar Albinmoussa
Date prepared: June 6, 2014