

PGE 455
TRANSPORTATION AND STORAGE OF PETROLEUM AND NATURAL GAS
CLOs vs. SLOs Mapping

PLOs: ABET “a” (26%): Apply the knowledge of mathematics, geology, physics, chemistry as well as other engineering sciences
 ABET “c” (23%): Design an engineering process or system to meet desired needs
 ABET “e” (51%): Identify, formulate and solve engineering problems

- Main CLOs:**
1. Design a pipeline for oil and natural gas transportation and Design a storage tanks and pressure vessels for oil, gas, and liquefied gases.
 2. Select the most appropriate pumps, compressors, and number of station’s needed.
 3. Recognize the environmental issues related to oil and gas transportation and storage.

Material		CLOs			PLOs		
		1	2	3	a	c	e
Tutorial Sheet # 1	Questions 1 to 5	√	---	---	√	---	---
Tutorial Sheet # 2	Questions 1 to 10	√	---	---	---	---	√
Tutorial Sheet # 3	Questions 1 to 5	√	√	√	√	√	√
Tutorial Sheet # 4	Questions 1 to 4	√	√	√	√	√	√
Tutorial Sheet # 5	Questions 1 to 4	√	√	√	√	√	√
Tutorial Sheet # 6	Questions 1 to 7	√	√	√	√	√	√
Tutorial Sheet # 7	Questions 1 to 4	---	√	√	---	√	√
	Question 5	√	√	√	√	√	√
Midterm Exam # 1	Questions 1						
	Questions 2						
	Questions 3						
	Questions 4						
Midterm Exam # 1	Questions 1						
	Questions 2						
	Questions 3						
	Questions 4						
Final Exam	Questions 1						
	Questions 2						
	Questions 3						
	Questions 4						
	Questions 5						
	Questions 6						

Petroleum and Natural Gas Engineering Program

COURSE DIRECT ASESMENT RECORD

PGE 455: TRANSPORTATION & STORAGE OF PETROLEUM AND NATURAL GAS

Semester and Year: **First 1437-1438 (2016-2017)**

Instructor Name: **Professor Musaed N. J. AlAwad**

CLO 1: Design a pipeline for oil and natural gas transportation, and design a storage tanks and pressure vessels for oil, gas, and liquefied gases
 CLO 2: Select the most appropriate pumps, compressors, and number of station's needed
 CLO 3: Recognize the environmental issues related to oil and gas transportation and storage

Student ID#	Assessment Methods (Examinations)												Achievement									
	Tutorials (20)			Midterm I (20)			Midterm II (20)			Final (40)			Average (100)			(Scale of 5.0)			Satisfaction (Yes or No)			
	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	CLO1	CLO2	CLO3	
1																						
2																						
3																						
4																						
5																						
6																						
Overall Average																						

Actions for Continuous Improvement