

PGE 491
PETROLEUM AND NATURAL GAS ECONOMICS AND LEGISLATIONS
CLOs vs. SLOs Mapping

PLOs: ABET “a” (50%): Apply the knowledge of mathematics, geology, physics, chemistry as well as other engineering sciences

ABET “e” (50%): Understand the impact of engineering solutions in a global, economic, environmental and societal contest.

Main CLOs:

1. Recognize oil and gas history and related international organizations.
2. Understand crude oil and Natural gas pricing methods and price fluctuations.
3. Utilize economical techniques, decision methods and decision making among alternatives for applications in oil and natural gas operations.

Material		CLOs			PLOs	
		1	2	3	a	e
Tutorial Sheet # 1	Questions 1 to 11	√	-	-	-	-
Tutorial Sheet # 2	Questions 1 to 6	√	-	-	-	-
Tutorial Sheet # 3	Questions 1 to 6	-	√	-	-	√
Tutorial Sheet # 4	Questions 1, 2, 4, 5 to 14	-	-	√	-	√
	Question 3	-	-	√	√	-
Tutorial Sheet # 5	Questions 1 to 5	-	-	√	-	√
Tutorial Sheet # 6	Questions 2 and 3	-	-	√	√	-
	Questions 1, 4 to 7	-	-	√	-	√
Tutorial Sheet # 7	Question 4	-	-	√	√	-
	Questions 1 to 3 and 5 to 11	-	-	√	-	√
Tutorial Sheet # 8	Questions 1 to 8	-	-	√	-	√
Tutorial Sheet # 9	Questions 1 to 3	-	-	√	-	√
Tutorial Sheet # 10	Questions 1 to 2	-	-	√	-	√
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 491: PETROLEUM AND NATURAL GAS ECONOMICS

Semester and Year:

Instructor Name:

CLO 1: Understand crude oil and Natural gas pricing methods and price fluctuations															
CLO 2: Utilize economical techniques, decision methods and decision making among alternatives for applications in oil and natural gas operations															
Student ID#		Assessment Methods (Examinations)								Achievement					
		Tutorials ()		Midterm I ()		Midterm II ()		Final ()		Average ()		(Scale of 5.0)		Satisfaction (Yes or No)	
		CLO 1	CLO 2	CLO 1	CLO 2	CLO 1	CLO 2	CLO 1	CLO 2	CLO 1	CLO 2	CLO 1	CLO 2	CLO 1	CLO 2
1															
2															
3															
4															
5															
6															
Overall Average															

Actions for Continuous Improvement