Identification	**Subject**	PETE 202: Introduction to Petroleum Engineering- 6 ECTS credits	
	Department	Petroleum Engineering	
	Program	Undergraduate	
	Term	Fall 2017	
	Instructor	Elshan Aliyev	
	E-mail:	aliyev.elshan@hotmail.com	
	Phone:		
	Classroom/hours	11 Mehseti str.(Neftchilar campus),Tuesday 18:40- 21:20	
	Office hours		
Prerequisites	Consent of instructor		
Language	English		
Compulsory/Elective	Elective		
Required textbooks and course materials	Richard L. Christiansen, John R Fanchi, 2016, Introduction to Petroleum Engineering		
Course outline	This course is designed for the Petroleum Students and other Technical Specialties. Course addresses the basic principles of Petroleum Engineering. Some concepts from Reservoir Engineering, Exploration, Drilling and Completion will be covered during the course. Practical exercises on reserve estimation and pore pressure calculations will be addressed.		
Course objectives	*Generic Objective of the Course:* ▪ To equip students with the basic concepts, methods and techniques in petroleum engineering. ▪ To prepare students for the industry environment *Specific Objectives of the Course:* ▪ To support the students academically, to improve their chance of realizing their potential ▪ To encourage students participation and interaction and fostering atmosphere of tolerance and respect ▪ To develop an understanding of the theory and practice of managerial analysis, and strategic decision making **Class assignments** will be provided during class. The contents will be based on general concepts which were provided during previous class **Quizzes** (multiple choice questions) will cover the materials covered in previous classes. There will be 2 quizzes during semester.		
Learning outcomes	**By the end of the course the students should be able:** ▪ To understand petroleum play ▪ To be familiar with basics of exploration, drilling and completion ▪ To estimate reserves ▪ To understand reservoir engineering concepts		
Teaching methods	**Lecture**		x
	Group discussion		x
	Practical exercises		x
	Simulation		
	Case analysis		
	Course paper		
	Others		x
Evaluation	**Methods**	**Date/deadlines**	**Percentage (%)**

	Midterm Exam		40
	Case studies		
	Class Participation		5
	Assignments		10
	Quizzes		5
	Project		
	Presentation/Group Discussion		
	Final Exam		40
	Others		
	Total		100

Policy

- **Preparation for class**

  The structure of this course makes your individual study and preparation outside the class extremely important. The lecture material will focus on the major points introduced in the text. Reading the assigned chapters and having some familiarity with them before class will greatly assist your understanding of the lecture. After the lecture, you should study your notes, assigned chapters and get ready for class assignments. Throughout the semester we will also have two quizzes and one project.

- **Withdrawal (pass/fail)**

  This course strictly follows grading policy of the School of Engineering and Applied Science. Thus, a student is normally expected to achieve a mark of at least 60% to pass. In case of failure, he/she will be required to repeat the course the following term or year.

- **Cheating/plagiarism**

  Cheating or other plagiarism during the Class Assignments, Quizzes, Mid-term and Final Examinations will lead to paper cancellation. In this case, the student will automatically get zero (0), without any considerations.

- **Professional behavior guidelines**

  The students shall behave in the way to create favorable academic and professional environment during the class hours. Unauthorized discussions and unethical behavior are strictly prohibited.

Tentative Schedule

Week	Date/Day (tentative)	Topics	Textbook/Assignments
1	19.09.2017	Course Introduction	
2	26.09.2017	Petroleum Play: Reservoir, Trap, Seal, Timing, Maturation & Migration	
3	03.10.2017	Reservoir Rock and Fluid Properties Class Assignment 1	
4	10.10.2017	Reservoir Rock and Fluid Properties (continued)	
5	17.10.2017	Basics of Reservoir Engineering, Drive Mechanisms Class Assignment 2	

6	24.10.2017	Basics of Reservoir Engineering, Drive Mechanisms (continued)	
7	31.10.2017	Pore Pressure Concepts Quiz 1	
8	07.11.2017	**Mid-term Exam**	
9	14.11.2017	Basics of Exploration, Drilling and Completion Class Assignment 3	
10	21.11.2017	Basics of Exploration, Drilling and Completion (continued)	
11	28.11.2017	Reserve Estimation I	
12	05.12.2017	Reserve Estimation I (continued)	
13	12.12.2017	Reserve Estimation II	
14	19.12.2017	Reserve Estimation II (continued)	
15	26.12.2017	Class Assignment 4, Quiz 2	
	TBA	**Final Exam**	

This syllabus is a guide for the course and any modifications to it will be announced in advance.