

Flow up of implementation celli pass play

Course Instructor	Huda A. Abdul-Kader				
E-mail	hudaaamer2010@yahoo.com				
Title	Properties of Petroleum and Natural Gas				
Course Coordinator	Annually				
Course Objective	This course is intended as an introduction a petroleum refining and natural gas fractionation units .				
Course Description	<ol style="list-style-type: none"> ١. Classification of crude oil. ٢. Physical and Chemical Properties of Crude Oil. ٣. crude oil Preparation for Refining. ٤. Refining (Distillation) of Crude Oil. ٥. Petroleum Products. ٦. Gases Production from Petroleum Products. ٧. Chemical Processes in Petrochemicals Industrials. ٨. Natural Gas treatment. 				
Textbook	W.L.Nelson." Petroleum Refinery Engineering". ٤ rd edition, ٢٠١٢.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	٣٠٪	١٠٪	١٠٪	-	٦٠٪
General Notes	This subject is important to understand classification of crude oil and evaluation of petroleum ,latent heat ,heat of combustion and behavior of real gases				

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research

University: Diyala
College: Engineering
Department: Chemical
Stage: Second
Lecturer name: Huda A. Abdul-Kader
Qualification: M.Sc
Place of work: Diyala University



Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
١	٢٢ and ٢٤, Sep. ٢٠١٤	Introduction and Definition of Petroleum.	Flash point	
٢	٢٩, Sep. ٢٠١٤ ٠١, Oct. ٢٠١٤	Chemical analysis of crude oil.	Pour point	
٣	٠٦ and ٨, Oct. ٢٠١٤	Classification of crude oil	Viscosity	
٤	١٣ and ١٥, Oct. ٢٠١٤	Crude oil degassing (or Natural gas Removal from crude oil)	Viscosity index	
٥	٢٠ and ٢٢, Oct. ٢٠١٤	Sulphur recovery from petroleum gases.	Aniline point	
٦	٢٧ and ٢٩, Oct. ٢٠١٤	Crude oil and gas reservoirs	API and density test	
٧	٣ and ٥, Nov. ٢٠١٤	Physical and Chemical Properties of Crude Oil.	Petroleum distillation	
٨	١٠ and ١٢, Nov. ٢٠١٤	Mechanical properties :(Density , Viscosity , Surface tension)	Ash content	
٩	١٧ and ١٩, Nov. ٢٠١٤	Thermal properties		
١٠	٢٤ and ٢٦, Nov. ٢٠١٤	Optical properties		
١١	٠١ and ٣, Dec. ٢٠١٤	Crude Oil Preparation for Refining.		
١٢	٠٨ and ١٠, Dec. ٢٠١٤	Crude oil degassing (or Natural gas Removal from crude oil)		

13	10 and 21, Dec. 2014	Crude oil stabilization		
10	22 and 31, Dec. 2014	Dehydration and Desalting from Crude Oil		
16	05 and 07, Jun. 2014	Methods of Emulsions Breaking.		
Half-Year Break				
17	16 and 18, Feb. 2010	Dewaxing from lubricating oils		
18	23 and 25, Feb. 2010	Fractional Distillation Column		
19	02 and 04, Mar. 2010	Production of petroleum		
20	09 and 11, Mar. 2010	Gases Production from Petroleum Products.		
21	23 and 30, Mar. 2010	Hydrocarbon Production (Fischer tropesch synthesis).		
22	01 and 06, April, 2010	Alcohol Production		
23	08 and 13, April 2010	Hydrocracking, Thermal Reforming		
24	10 and 20, April 2010	Catalytic reforming, and Coke formation		
25	21 and 27, April 2010	Hydrogen Treatment		
26	29, April, 2010 04, May, 2010	Isomerization, Polymerization.		
27	06 and 11, May, 2010	Introduction and Definition of Natural gas.		
28	13 and 18, May, 2010	Natural Gas Hazards and Origin of Natural gases.		
29	20 and 25, May, 2010	Chemical composition, Terms used to describe gases.		
30	27, May, 2010 01 and 03, June, 2010	Methods of Emulsions Breaking		
31				

INSTRUCTOR Signature:

Dean Signature: