

Flow up of implementation celli pass play

Course Instructor	Anees A. Khadom				
E-mail	aneesdr@yahoo.com				
Title	Principles of Chemical Engineering (I)				
Course Coordinator	Annually				
Course Objective	This course is intended to serve as an introduction to the principles and basics of material balance and how to deal with materials changes.				
Course Description	<ol style="list-style-type: none"> ١. Introduce the principles and calculation of material balance. ٢. Assist in methods of problems solving. ٣. Review certain principles of applied physical chemistry. ٤. Study the behavior of gases, liquids, and solids. ٥. Units and dimensions. 				
Textbook	Himmelblau David M. "Basic Principles and Calculations in Chemical Engineering". ٧th Ed. ٢٠٠٣.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	٣٠٪	٠	١٠٪	-	٦٠٪
General Notes	This subject is very important in understanding the principles and calculations of chemical engineering.				

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University:
College:
Department:
Stage:
Lecturer name:
Qualification:
Place of work

Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
١	١٧ and ١٨, Nov. ٢٠١٤	General review of material balance, Dimensions, Units, and Their Conversion		
٢	٢٤ and ٢٥, Nov. ٢٠١٤	Moles, Density, and Concentration, Choosing a Basis.		
٣	٠١ and ٠٢, Dec. ٢٠١٤	Temperature, Pressure.		
٤	٠٨ and ٠٩, Dec. ٢٠١٤	Introduction to Material Balance		
٥	١٥ and ١٦, Dec. ٢٠١٤	General Strategy for Solving Material Balance Problems.		
٦	٢٢ and ٢٣, Dec. ٢٠١٤	Solving Material Balance Problems for Single Units without Reaction,		
٧	٢٩ and ٣٠, Dec. ٢٠١٤	The Chemical Equation and Stoichiometry.		
٨	٠٥ and ٠٦, Jun. ٢٠١٤	Material Balances for Processes Involving Reaction.		
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Half – year break

17	16 and 17, Feb. 2010	Material Balance Problems Involving Multiple Units.		
18	23 and 24, Feb. 2010	Material Balance Problems Involving Multiple Units.		
19	02 and 03, Mar. 2010	Material Balance Problems Involving Multiple Units.		
20	09 and 10, Mar. 2010	Recycle and the Industrial Application of Material Balances.		
21	23 and 24, Mar. 2010	Bypass and the Industrial Application of Material Balances.		
22	30 and 31, Mar. 2010	Purge and the Industrial Application of Material Balances.		
23	06 and 07, April, 2010	Ideal Gases		
24	13 and 14, April 2010	The Ideal Gas Law		
25	20 and 21, April 2010	Ideal Gas Mixtures		
26	27 and 28, April 2010	Partial Pressure		
27	04 and 05, May, 2010	Critical pressure and temperature		
28	11 and 12, May, 2010	Real gases and compressibility factor		
29	18 and 19, May, 2010	Material Balances Involving Ideal Gases		
30	25 and 26, May, 2010	Material Balances Involving Ideal Gases		
31	01 and 02, June, 2010			

INSTRUCTOR Signature:

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