



MUTAH UNIVERSITY
Faculty of Engineering
Department of Chemical Engineering



Unit Operation Lab

COURSE SYLLABUS

Course Code	Course Name	Credits	Contact Hours
0404454	Unit Operations / Solid Lab	3	

INSTRUCTOR/COORDINATOR	
Name	Prof. Adnan Al-Harabsheh
Email	Adnan@mutah.edu.jo
Website	

TEXTBOOK
Other Supplemental Materials

SPECIFIC COURSE INFORMATION

A. Brief Description of the Content of the Course (Catalog Description)

This laboratory aims to provide the student with practical and applied knowledge of industrial separation processes applied on solids. This laboratory also aims to provide the student with practical and applied knowledge of dealing with solids and includes experiments in crushing, grinding, sieving, sedimentation, mixing and filtration

B. Pre-requisites (P) : 0404453

C. Course Type (Required or Elective)

Required (Compulsory department course)

SPECIFIC GOALS

A. Specific Outcomes of Instruction

To conduct require experiments in appropriate way (6)

To perform analysis of obtained experimental data (6)

To express results of experiments and to draw a final conclusions (6)

To work effectively in team (5)

Ability to communicate and to present final reports (3,5)

B. Student Outcomes Addressed by the Course

1	2	3	4	5	6	7				
		✓		✓	✓					

BRIEF LIST OF TOPICS TO BE COVERED

List of Topics	No. of Weeks	Contact Hours
Introduction to Lab Safety Regulations	1	3 hr /Week
Crushing and Grinding,	1	3 hr /Week
Sieving	1	3 hr /Week
Mixing	1	3 hr /Week
Sedimentation Experiment	1	3 hr /Week
Fluidization Experiment 1	1	3 hr /Week
Fluidization Experiment 2	1	3 hr /Week
Filtration	1	3 hr /Week
Review	1	3 hr /Week

METHODS OF ASSESSMENT

No.	Method of assessment	Week and Date	%
1	Mid Exam	6 th week	30
2	Reports	2-14	30
3	Final examination	End of Semester	40
Total			100