MUTAH UNIVERSITY
Faculty of Engineering
Department of Chemical Engineering

Graduation Project 2

COURSE SYLLABUS

Course Code	Course Name	Credits	Contact Hours
0404569	Graduation Project 2	3	To be determined later

INSTRUCTOR/COORDINATOR	
Name	A faculty member will be assigned
Email	....@mutah.edu.jo
Website	

TEXTBOOK	
Title	-
Author/Year	
Other Supplemental Materials	
Title	
Author/Year	
Electronic Materials	

SPECIFIC COURSE INFORMATION

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

The course aims to complete the subsequent stages of the graduation project (1). In case the project is theoretical and/or experimental investigation, students must complete data collection, analysis and interpretation and reporting. In case the project is a design project, students must accomplish complete process development, equipment design, process layout, plant location, safety consideration, Students must assess the economic feasibility of the plant.

B. Pre-requisites (P) or Co-requisites (C)

(P): 0404500 (Graduation Project 1)

C. Course Type (Required or Elective)

Required (Compulsory department course)

SPECIFIC GOALS

A. Specific Outcomes of Instruction

In case the project is theoretical and/or experimental investigation, the student should be able to:

- define the problem, set the assumptions, formulate the model/design the setup (**SLOs 1, 2 & 7**).
- solve the model/carry out the experiments (**SLOs 1, 2 & 6**).
- analyze data, judge assumptions and make proper interpretations (**SLOs 4 & 6**).
- Prepare a comprehensive report (**SLOs 3 & 5**)

In case the project is a design project, the students should be able to:

- develop process flow sheet (**SLOs 1, 2 & 7**).
- carry out equipment design (**SLOs 2 & 7**).
- select appropriate process layout (**SLOs 2 & 7**).
- select appropriate plant location (**SLOs 2 & 7**).
- assess plant safety (**SLOs 2 & 7**).
- evaluate the economic feasibility of the process (**SLOs 2, 4 & 7**).
- Prepare a comprehensive report (**SLOs 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
• Development of process flow sheet	2	3 hrs/week
• Equipment design	7	3 hrs/week
• Process layout	1	3 hrs/week
• Plant location	1	3 hrs/week
• Plant safety	1	3 hrs/week
• Economic evaluation of the process	2	3 hrs/week
• Reporting	2	3 hrs/week
Total	*16*	*48 hrs*

Evaluation is carried out as per the department instructions, where an evaluation form is filled by project supervisor and the examination committee.