UNIVERSITY OF JORDAN
School of Engineering
Chemical Engineering Department

0905466 Thermals Lab.
1st Semester 2025/2026

Course Catalog	
Compulsory, 1 Credit Hours (3 h Practical) Perform experiments related to courses (0905343) and (0915322) including vapor-liquid equilibrium, liquid-liquid equilibrium and energy measurements, heat conduction, heat convection, and heat exchangers.	
Prerequisite	0905343, 0915322

Textbook	---
References	
Books	• Refer to Syllabus of 0905343 Process Heat Transfer and 0915322 Chemical Engineering Thermodynamics (2). • Lab Manual prepared by faculty at Chem. Eng. Dept., University of Jordan.
Journals	---
Internet links	

Instructor (s)	
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Class Schedule & Room	
Lab Time:	Tuesday 13:30-16:30, Wednesday 13:00-16:00
Location:	Chem. Eng. Laboratories
Office Hours	
Tuesday, Thursday:	1:00-2:00
Monday and Wednesday:	11:00-12:00

Mapping of Course Objectives to Program Outcomes

1. To learn and practice how to use lab. equipments to get experimental results. [O6,O1]
2. To be able to follow and report the proper experimental procedure. [O6]
3. To learn how to analyze experimental data and arrive at correct conclusions. [O1,O6]
4. To identify and recognize the hazards & safety precautions associated with experiments. [O4,O7]
5. To identify and recognize the sources and magnitude of errors associated with experiments. [O1,O4]
6. To work effectively in teams and take initiatives. [O4,O5]
7. To present results orally and in a written form. [O3]

Skills Targeted	
	Experiment
1. Reinforcement of theory.	All
2. Experimental practice and safety	All
3. Connectivity between various courses.	All
4. Data acquisition and analysis skills.	All
5. Teamwork and initiative	All
6. Written and oral Communication.	Selected

Evaluation		
Assessment Tool	**Expected Due Date**	**Weight**
Short Reports Writing		20%
Full Report Writing		10%
General Evaluation		10%
Mid Exam		20%
Final Exam	According to University final examination schedule	40 %

ABET Category Content	
Engineering Science	100% (1 CR)
Engineering Design	

Sep.22.2025