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جامعة العلوم التطبيقية الخاصة  
APPLIED SCIENCE PRIVATE UNIVERSITY



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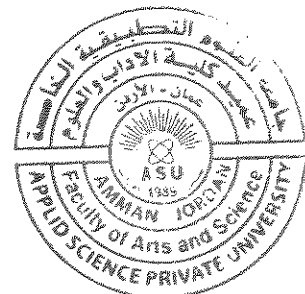
المستوى الذهبي

جامعة كل العرب

**Faculty of Arts and Science  
Course Syllabus**

**Semester: Second**

**Academic Year 2020 / 2021**



**Course Title:** General Practical Chemistry  
**Course No.:** 1501131  
**Prerequisite:** -  
**Concurrent:** -  
**Department:** Basic Science and Humanities  
**Coordinator:** Nawal Bahtiti

**\* Instructor:**

Name	Office Number	Office Phone	Office Hours	E-mail
Nawal Bahtiti	223	1282	12-1 S.T.Th 11-12 Mon.	nawal_h@asu.edu.jo
Dr.Dima khater	224	1283	12-1 S.T.Th	d_khater@asu.edu.jo

**\* Course Description:**

This course includes selected experiments to illustrate colligative properties, thermochemistry and thermodynamics, chemical kinetics, equilibrium constant, electrochemistry and phase equilibria

**\* Learning Outcomes :**

Upon completion of the course, this module should lead to the following learning outcomes:

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رمز النموذج: UF 28 / 1

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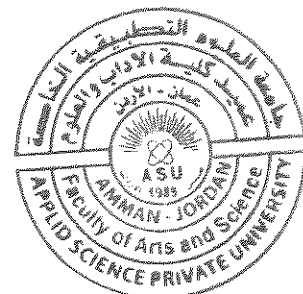
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**A. Knowledge and Understanding (student should know):**

- The general procedures for conducting various experiments
- How to collect and organize experimental data
- How to identify chemistry laboratory equipment

**B. Cognitive and Intellectual Skills:**

- The important safety precautions that should be practiced in the lab.
- To recognize flammable, toxic, and harmful compounds
- To practice the procedures for operating common laboratory equipments

**C. Subject specific skills:**

- To emphasize concepts of moles, molar ratio, empirical formula
- To attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems.

**D. Transferable Skills:**

- To test the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles,

**\* Course Contents and Schedule:**

Dates	Subject
28-2-2021	Introduction
7-3-2021	Exp.1 Laboratory Safety and Laboratory Guidelines
14-3-2021	Exp.2 Basic Laboratory Operation
21-3-2021	Exp.3 Density Measurement
28-3-2021	Exp.4 Avogadro's Number
4-4-2021	Exp.5 Determining the Empirical Formula of Magnesium Oxide
11-4-2021	Exp.6 Limiting Reactant
18-4-2021	Exp.7 Molar Mass of Volatile Liquid
25-4-2021	Exp.8 Determination of Rate law
2-5-2021	Exp.9 L e Chatelier's Principle

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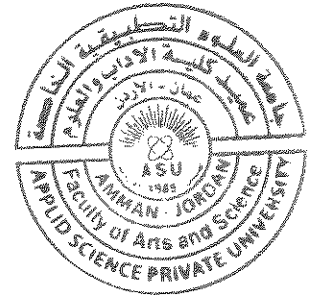
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9-5-2021	Exp. 10 Calorimetry
16-5-2021	Exp.11 Thermodynamics
23-5-2021	Revision week
8-6-2021	<b>Final Exam</b>

**\* Teaching Methods:**

-



**\* Evaluation:**

Midterm Exam	30%	13-4-2021
Reports	20%	
Final Exam	50 %	
<hr/>		
Total	100%	

**\* Textbook:**

Practical Manual prepared by Nawal Bahtiti 8<sup>th</sup>.ed.2021 Amman.

**\* References:**

- 1-Laboratory Manual for principles of general chemistry, 5<sup>th</sup> ed., J.A. Beran, John Wiley Sons. 1994
- 2-Sтивен L.Муров Experiments in General Chemistry 5<sup>th</sup>.edition, Thomson. USA 2007
- 3-Chemistry, by Brady, Senese, & Jespersen, 5 E, J.W 2009.

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المستوى الذهبي

جامعة كل العرب

Subject Coordinator

Nawal Al Bahtiti

Head of Curriculum Committee

Dr.Hussam Miqdad

Department Head

Dr.Hussam Miqdad

Dean Faculty

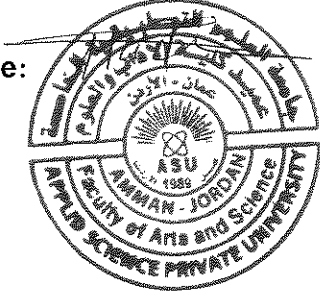
Dr.Hadeel Alsaad

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Copy to:

- Department Head.
- Head of Curriculum Committee.
- Course File.

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