



AMMAN - JORDAN

المستوى الذهبي

جامعة كل العرب

Faculty of Arts and Science
Course Syllabus
Semester: First semester
Academic Year: 2022/ 2023

Course Title :	Research Seminar in Chemistry
Course No. :	1722423
Prerequisite :
Concurrent :
Department :	Chemistry
Coordinator :	Dr.
Mode of Instruction	- On campus

*** Instructor:**

Name	Office Number	Office Phone	Office Hours	E-mail

• Course Description:

This course will be designed to enable students to understand the construction of scientific database, literature survey and the main concepts of writing a scientific paper, moreover, it will allow students to conduct scientific research. The student studies an academic research methodology with the supervisor within 4-6 weeks 6 hours' lecture/ week, then applies the scientific research methodology for preparing scientific study under the supervision of a professor. Finally, the student introduces a final report written by a scientific methodology and a presentation on the subject.



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*** Learning Outcomes :**

Successful completion of this course should lead to the following learning outcomes:

A-Knowledge and Understanding :

A1 -Defines the components of the scientific report.

A2-Prepare the referencessection of the report for different types of scientific literature.

A3- Write the report correctly.

B-Intellectual Skills :

B1- Summarize the main ideas of his/her specified subject.

C-Subject Specific Skills :

C1-Communicate effectively both orally and in writing with professionals and/or lay audience.

C2-Collect scientific literature using different sources hard or soft.



• **Course Contents and Schedule:**

Week	Day and Date	Topics to be covered	Method of instruction	CLOs	PLOs
1 & 2		Chapter 1: The writing process 1.1. The purpose of academic writing 1.2 Common types of academic writing 1.3 The format of long and short writing tasks . 1.4 The features of academic writing	In-class lecture	A1, C1,	1,2,8
3 & 4		Chapter 2: Reading: finding suitable sources 2.1 Reading methods 2.2 Titles, sub-titles and text features 2.3 Using library catalogues 2.4 Using library websites to search electronic resources.	In-class lecture	A3, C2,	12,14
5 & 6		Chapter 3: Finding key points and note-making 3.1 Note-making methods 3.2 Finding key points 3.3 Finding relevant points 3.4 Effective note-making	In-class lecture	A1, B1	,4,8,9
7 & 8		Chapter 4: Composing the Sections of a Research Paper 4.1. Abstract 4.2. Introduction 4.3. Materials and methods 4.4. Results and discussion 4.5. Summary 4.6 References	In-class lecture Quiz1	A2, C1,	3,6,7



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9 & 10		Chapter 5: Writing models 5.1. Paper 5.2. Report 5.3. essays 5.4. thesis 5.5. literature reviews	In-class lecture	A1, B1 C1,	6,7
11 & 12		Chapter 6: Preparing a Manuscript for Submission 6.1. Choosing a Journal 6.2. A Final Rewrite	In-class lecture	A3, C2,	1,9,10
13&14		Students choose to work on individual theoretical research under direction of a faculty member in chemistry or a related field and apply the previous items in the research.	In-class lecture	A1, B1	2,3
15		Students choose to work on individual theoretical research under direction of a faculty member in chemistry or a related field and apply the previous items in the research.	In-class lecture	A1, B1 C1,	4,8
Sixteen		Final Exam			

Teaching Methods

1. Inter active lectures
2. Group discussions
3. Assignments
4. Reports
5. Quizzes



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* Evaluation:

Grading Plan and Assessments		
Methods	Weights	Due date
Report evaluation by supervisor	20 %	TBA
Report evaluation by referees	20 %	TBA
Presentation evaluation	20 %	TBA
Oral exam.	20 %	TBA
Final Exam	20 %	TBA

• Textbook:

- Katz and Michael Jay, 2009. From Research to Manuscript, A Guide to Scientific Writing, ISBN 978-1-4020-9467-5, pp181
- The names of the scientific literature related to the research subject that is specified by the supervisor

• References:

- Any recent research paper related to the chosen subject
- The recent supervisor's research paper can be included and used as reference



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Subject Coordinator

Dr. Ahmed Abu-Rayyan

Signature:

Head of Curriculum Committee

Dr. Hussam Miqdad

Signature:

Department Head

Dr. Hussam Miqdad

Signature:

Faculty Dean

Dr. Hadeel Ali Saed

Signature:

Copy to:

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