

Kingdom of Saudi Arabia National Commission for Academic Accreditation & Assessment المملكة العربية السعودية الهيئية الوطنية للتقويم والاعتماد الأكاديمي

ATTACHMENT 5.

## Kingdom of Saudi Arabia

## The National Commission for Academic Accreditation & Assessment

# **T6.** Course Specifications

(**CS**)

# **Research Seminar**





## **Course Specifications**

Institution: Umm Al-Qura University	Date of Report	: 2017		
College/Department : Applied Science / Department of Chemistry				
A. Course Identification and General Information				
1. Course title and code: Research Seminar /402651-3				
2. Credit hours: <b>3 hrs</b>				
<ul><li>3. Program(s) in which the course is offered.: M. Sc. in Chemistry</li><li>(If general elective available in many programs indicate this rather than list programs)</li></ul>				
4. Name of faculty member responsible for	r the course: Dr. Ahmed Fawzy			
5. Level/year at which this course is offere	ed: 3 <sup>rd</sup> / 2 <sup>nd</sup>			
6. Pre-requisites for this course (if any)	): not applicable			
7. Co-requisites for this course (if any)	: not applicable			
8. Location if not on main campus: El-	Abedyah, El-Azizya, and El-Zah	er		
9. Mode of Instruction (mark all that apply	7)			
a. traditional classroom	What percentage?	50%		
b. blended (traditional and online)	What percentage?	10%		
c. e-learning What percentage? 20%				
d. correspondence	What percentage?			
f. other	What percentage?	20%		
Comments:				



### B Objectives

1. Summary of the main learning outcomes for students enrolled in the course.

By the end of this course the students will be able to:

- 1. Carry out a theoretical or experimental search in one of the chemistry branches (inorganic, physical, organic or analytical) under supervision of one of the department staff members.
- 2. Present a full report about his seminar topic.
- 3. Give a seminar with discussion about his obtained results.

2. Briefly describe any plans for developing and improving the course that are being implemented.

(e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

• Increased use of IT or web based reference material.

• Encourage students to carry out research reports in modern topics of if modern topics in chemistry using the library, data base services, and/or websites.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

1. Topics to be Covered		
List of Topics	No. of	Contact hours
	Weeks	
Student will carry out a theoretical or experimental search in one of the	13	39
chemistry branches (inorganic, physical, organic or analytical) under		
supervision of one of the department staff members. After firesting his		
search, he should present a full report and give a seminar with discussion	$\left( \right)^{r}$	
about his obtained results.		

2. Course components (total contact hours and credits per semester):



	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	39	-	-	-	-	39
Credit	3	-	-	-	-	3

3. Additional private study/learning hours expected for students per week. **None** 

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

**First**, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods	
1.0	Knowledge			
1.1	Describe the selected techniques applied in	• Use of the internet to	• Long and short	
	chemistry field.	carry out some	essays.	
1.2	Remember the role of modern applications of	reports.	• Final	
	chemistry in our life.	• Scientific discussion.	presentation and	
1.3	Write on some selected topics in different	• Use the library to	exam.	
	branches of chemistry.	work duties and a		
1.4	Determine the mechanism of some selected	small search.		
	new chemical reactions.			
1.5	Clarify some selected subjects in chemistry.			
2.0	Cognitive Skills			



2.1	Report the properties and structure of some	• Web-based study.	• Measuring the	
	new chemical compounds.	• Scientific discussion	response to the	
2.2	Estimate the properties of newly prepared	• Library visits.	assignments.	
	compounds.		• Final	
2.3	Apply the modern analytical and spectral		presentation and	
24	techniques in chemistry. Predict the distinctive features of new		exam.	
2.1	investigated compounds			
2.5	Design new compounds for special			
	applications.			
3.0	Interpersonal Skills & Responsibility			
3.1	Develop the student's ability in self-reliance	• Periodic individual	•Assessment of	
	and responsibility.	duties to develop the	individual tasks	
3.2	Choose the suitable method to solve problems	skill of taking	and duties to	
	in selected topics in inorganic chemistry.	responsibility and	determine the	
3.3	Operate in team work and accept his college's	self-reliance.	student's ability	
	opinions.	• Dividing students	to self-reliance.	
		into groups to carry	• Evaluate the	
		out collective	results of	
		scientific reports.	collective works	
			and duties as well	
			as knowing the	
			contribution of	
			each individual	
			through dialogue	
			and discussion.	
4.0	Communication, Information Technology, Numerical	1	1	
4.1	Communicate effectively in oral and written	• The use of computers	• Web-based	
	forms.			

4.2	Use basic mathematical and statistical	in the training room	student	
	techniques to perform data analysis.	of the department.	performance	
4.3	Use computers and the international	• Using the internet for	systems.	
	information network (the Internet) to perform	collecting data.	• Individual and	
	calculations and to identify recent research	• Visiting research	group	
	relevant to decision sources.	centers.	presentations.	
			• Evaluation of the	
			duties associated	
			with the proper	
			use of numerical	
			and	
			communication	
			skills.	
5.0	Psychomotor			
5.1 5.2	Not applicable.			

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech,	Week Due	Proportion of
	oral presentation, etc.)		Assessment
1	Assignments and activities.	weekly	40%
2	Final presentation and exam.	16	60%

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

• We have faculty members to provide counselling and academic advice.

• 2 hours per week as office hours are available for discussion with the students.

#### E. Learning Resources

### 1. List Required Textbooks

• The list of required text book will be changed according to the selected topics.

2. List Essential References Materials (Journals, Reports, etc.)

• The essential references materials will be changed according to the selected topics.

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

- The recommended textbooks and reference material will be changed according to the selected topics.
- 4. List Electronic Materials, Web Sites, Facebook, Twitter, etc.
  - http://www.chemweb.com
  - http://www.sciencedirect.com
  - http://www.rsc.org

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.: **Non.** 

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of

seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

\* Appropriate teaching class including white board and data show.

2. Computing resources (AV, data show, Smart Board, software, etc.)

\* Computer halls access for the students will be helpful in doing their tasks during the course.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or

attach list) : \* No other requirements.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching



- Student discussion with the instructor allow for continuous feed back.
- Student evaluation questionnaires.

2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor

- Discussions within the group of faculty teaching the course.
- Peer consultation on teaching strategies and its effectiveness.

3 Processes for Improvement of Teaching

- Workshops given by experts on new teaching and learning methodologies will be attended.
- Improving of the teaching strategies by monitoring the evaluation of the students progress through the semester.

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution): Non.

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- Consult other staff of the course.
- Workshops for teachers.

Name of Instructor: Dr. Ahmed Fawzy

Signature:	Date Report Completed: 2017
Name of Field Experience Teaching Staff _	a dura university
Program Coordinator:	
Signature:	Date Received: