Course Specification

(Postgraduate Programs)

Course Title:	**Selected Topics in Analytical Chemistry**
Course Code:	**CHM 6237**
Program:	**Master of science in chemistry**
Department:	**Chemistry**
College:	**Science**
Institution:	**Imam Mohammad Ibn Saud Islamic University**
Version:	*Course Specification Version Number*
Last Revision Date:	*Pick Revision Date.*

Table of Contents

A. General information about the course:

1. Course Identification:

1. Credit hours: 3 (3 Lectures, 0 Lab, 0 Tutorials)				
2. Course type				
A.	☐University	☐College	☐Department	☐Track
B.	☐Required		☒Elective	
3. Level/year at which this course is offered: Level 1/Year 2				
4. Course General Description:				
The course covers selected topics in inorganic chemistry suggested by the Analytical Chemistry Division, with recommendation of CGC forward to the approved by the head of department and the department council each time this course is offered.				
5. Pre-requirements for this course (if any)**:**				
Advanced Analytical Chemistry - CHM 6131				
6. Pre-requirements for this course (if any)**:**				
7. Course Main Objective(s):				
Enable students to enrich their knowledge with different special topics of interest, which are carefully selected from Analytical Chemistry topics. **Learn topics those are not formally offered by the program and receive appropriate academic credit.** **Recognize the hot topics in the Analytical Chemistry.**				

2. Teaching Mode: (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	**45**	**100 %**
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	**45**
2.	**Laboratory/Studio**	**0**
3.	**Field**	**0**
4.	**Tutorial**	**0**
5.	**Others (specify)……**	**0**
	Total	45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	**To be specified according to the selected topics**	**Depends on the selected topics.**	**To be specified according to the selected topics**	
1.2				
1.3				
1.4				
2.0	**Skills**			
2.1	**To be specified according to the selected topics**	**Depends on the selected topics.**	**To be specified according to the selected topics**	
2.2				
2.3				
2.4				
3.0	**Values, autonomy, and responsibility**			
3.1	**To be specified according to the selected topics**	**Depends on the selected topics.**	**To be specified according to the selected topics**	
3.2				
…				

C. Course Content:

No	List of Topics	Contact Hours
1.	**Specific to Selected topics in Analytical Chemistry**	**45**
2.		
3.		
4.		
5.		
6.		
7.		

8.		
Total		45

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Class Activities (Open Discussion, Mini-reports, Oral Presentation, solving questions)	weekly	30 %
2.	Midterm Exams	9th and week	30 %
3.	Final Exam	Around 12th–17th week	40 %
4.	Total		100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	To be specified according to the selected topics
Supportive References	To be specified according to the selected topics
Electronic Materials	• To be specified according to the selected topics • Saudi Digital Library
Other Learning Materials	• Blackboard. • Multimedia associated with the text book and the relevant websites

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Each of the classroom should be equipped with a whiteboard and a projector, with a maximum of 20 students.
Technology equipment (Projector, smart board, software)	The rooms are equipped with data show, Smart Board, WI-FI access.
Other equipment (Depending on the nature of the specialty)	None

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	**Direct:** Questionnaire.
	Course Responsible	**Direct:** Course e-Portfolio.

Assessment Areas/Issues	Assessor	Assessment Methods
		Indirect: Second examiner checklist-Course report.
	Peer Reviewer	**Direct:** Questionnaire. **Indirect:** External assessor report.
Effectiveness of students' assessment	Program Leaders	**Direct:** Course e-Portfolio. **Indirect:** Course report.
Quality of learning resources	Students	**Indirect:** Second examiner checklist-Course report.
	Faculty (Academic Advisory-GCC)	**Direct:** course Entrance/Exit. **Indirect:** Observations - Accreditation review.
	Program Leaders	**Direct:** Course e-Portfolio.
	Course Responsible	**Indirect:** Course evaluation survey- Observations- Syllabus review- Accreditation review.
The extent to which CLOs have been achieved	Course Responsible	**Direct:** Exams - Course e-Portfolio. **Indirect:** Second examiner checklist-Course report.
	Program Leaders	**Indirect:** Exams.
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	**Council of Chemistry Department**
REFERENCE NO.	**10 (No. 2/10)**
DATE	**21/04/1444- 15/11/2022**