# Course Specification

## (Postgraduate Programs )

| | |
|---|---|
| **Course Title:** | **Selected Topics in Organic Chemistry** |
| **Course Code:** | **CHM 6227** |
| **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 Organic Chemistry suggested by the Organic 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 Organic Chemistry – CHM 6121 | | | | | |
| **6. Co-requirements for this course** (if any)**:** | | | | | |
| None | | | | | |
| **7. Course Main Objective(s):** | | | | | |
| • **Enable students to enrich their knowledge with special topics of interest, carefully selected from Organic Chemistry topics. The course covers selected topics in Organic chemistry suggested by the Organic Chemistry division and approved by the head of the department and the department council each time this course is offered.**<br>• **Learn topics those are not formally offered by the program and receive appropriate academic credit**<br>• **Recognize the hot topics in the Organic 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 | | |

| No | Mode of Instruction | Contact Hours | Percentage |
|---|---|---|---|
| | • Traditional classroom<br>• 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** | **Depending on.** | **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** | **Depending on.** | **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** | **Depending on.** | **To be specified according to the selected topics** | |
| 3.2 | | | | |
| ... | | | | |

## C. Course Content:

| No | List of Topics | Contact Hours |
|---|---|---|
| 1. | Specific to recent Selected topics in Organic Chemistry | 45 |
| 2. | | |
| --- | | |
| Total | | |

## 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 Exam | 9th week | 30% |
| 3. | Final Exam | 17th week | 40% |
| ... | 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<br>• Saudi Digital Library |
| Electronic Materials | • To be specified according to the selected topics |
| Other Learning Materials | • Blackboard<br>• Multimedia associated with the text book and the relevant websites. |

### 2. Educational and Research Facilities and Equipment Required:

| Items | Resources |
|---|---|
| **facilities**<br>(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. |

| Items | Resources |
|---|---|
| **Technology equipment**<br>(Projector, smart board, software) | **The rooms are equipped with data show, Smart Board,<br>WI-FI access.** |
| **Other equipment**<br>(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.<br>Indirect: Second examiner checklist- Course report.** |
| | **Peer Reviewer** | **Direct: Questionnaire.<br>Indirect: External assessor report.** |
| **Effectiveness of students' assessment** | **Program Leaders** | **Direct: Course e-Portfolio.<br>Indirect: Course report.** |
| **Quality of learning resources** | **Students** | **Indirect: Second examiner checklist- Course report.** |
| | **Faculty ( Academic Advisory- GCC)** | **Direct: course Entrance/Exit.<br>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.<br>Indirect: Second examiner checklist- Course report.** |

| Assessment Areas/Issues | Assessor | Assessment Methods |
|---|---|---|
| | 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 |