



ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Chemistry of Cosmetics

4024772-1
Course Specifications
(CS)





Course Specifications

Institution: Umm Al-qura University	Date of Report: 2017
College/Department : Faculty of Applied Science/ department of chemistry	

A. Course Identification and General Information

1. Course title and code: Chemistry of cosmetics/ 4024772-1	
2. Credit hours: 1 (theoretical)	
3. Program(s) in which the course is offered. Industrial Chemistry	
4. Name of faculty member responsible for the course: Professor Mohamed Rabie	
5. Level/year at which this course is offered: 7th level/4th year	
6. Pre-requisites for this course (if any): Physical Organic Chemistry	
7. Co-requisites for this course (if any)---	
8. Location if not on main campus: El-Abedyah	
9. Mode of Instruction (mark all that apply)	
a. Traditional classroom	<input checked="" type="checkbox"/> What percentage? 100%
b. Blended (traditional and online)	<input type="checkbox"/> What percentage?
c. e-learning	<input type="checkbox"/> What percentage? <input type="text"/>
d. Correspondence	<input type="checkbox"/> What percentage? <input type="text"/>
f. Other	<input type="checkbox"/> What percentage? <input type="text"/>
Comments:	

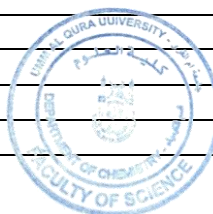


B Objectives

1. What is the main purpose for this course? By the end of this course student will be familiar with chemistry, types and manufacture of cosmetics
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) The students will be mentioned to prepare an essay or a report from literature using the library, data base services, and/or websites to follow up and update the new topics of the subject of the course

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Introduction to cosmetics and toiletry compounds	1	1
Alcohols used in cosmetics and toiletry compounds and their sources	1	1
Aldehydes and ketones used in flavors and fragrances	1	1
Carboxylic acids and esters in essential oils	1	1
Waxes used in cosmetics and toiletry compounds	1	1
Surface active agents: types and its importance in cosmetics manufacture	1	1
Hair care agents: their structures and types	1	1
Skin care agents: their chemical structures and types	1	1
Dyes used in cosmetics: chemical structure	1	1
Some cosmetic formulations	2	2
Applications	1	1



II-General scheme for identification of organic aliphatic unknown

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	14	-		-		14
Credit	1	-		-		1



3. Additional private study/learning hours expected for students per week. 1hr

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

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Recognize the basis and general types of compounds used in cosmetics manufacture	<ul style="list-style-type: none"> • Lectures • Scientific discussion • Library visits • Web-based study 	<ul style="list-style-type: none"> • Exams • web-based student performance systems • portfolios • long and short essays • posters lab manuals
1.2	Identify the different types of essential oils		
1.3	Know the types and classifications of alcohols used in cosmetics		
1.4	Familiar with different aldehydes and ketones used in flavors and fragrances		
1.5	Familiar with the Esters and acids used in in flavors and fragrances manufacture		
1.6	Identify the structure of different waxes used in manufacture		
1.7	Identify the different types of surfactants used in cosmetics		
1.8	Outline the different types of hair and skin care agents		
2.0	Cognitive Skills		
2.1	Compare between structure of different compounds used in cosmetics manufacture		
2.2	Explain the different strategies for preparation flavors and fragrances		
2.3	Analyze the roles of surfactants in cosmetic industry		
2.4	Predict the most suitable formulations for hair and skin care		
3.0	Interpersonal Skills & Responsibility		
	<ul style="list-style-type: none"> • Ability to work in a team to perform a specific task. 	<ul style="list-style-type: none"> • Scientific discussion • Web-based study 	<ul style="list-style-type: none"> • web-based student performance systems
4.0	Communication, Information Technology, Numerical		



	<ul style="list-style-type: none"> Evaluate the different methods of preparation cosmetics Demonstrate a synthetic pathways for flavors and fragrances Enhancing the ability of students to use computers and internet. Interpret chemical data Present chemical data orally. Know how to write a report. 	<ul style="list-style-type: none"> Lectures Scientific discussion Library visits Web-based study 	<ul style="list-style-type: none"> web-based student performance systems individual and group presentations
5.0	Psychomotor		
5.1	NOT APPLICABLE		
5.2			

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Homework or activities.	--	10 %
2	First Periodic Exam.	6	20 %
3	Second Periodic Exam.	12	20 %
4	Final Exam. (2hours exam)	16	50 %
5	Total		100 %

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 counseling and advice.**
- Office hours: During the working hours weekly.**
- Academic Advising for students.**

E. Learning Resources

1. List Required Textbooks

Handbook of Cosmetic Science and Technology, 3rd edition Andr é O. Barel, Marc Paye and Howard I. Maibach, 2009

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

- Lecture Hand outs available on the coordinator website



3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) <ul style="list-style-type: none">• 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.

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.) <ul style="list-style-type: none">• Classrooms capacity (30) students.• Providing hall of teaching aids including computers and projector.
2. Computing resources (AV, data show, Smart Board, software, etc.) <ul style="list-style-type: none">▪ Room equipped with computer and projector and TV.
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) <ul style="list-style-type: none">• No other requirements.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching Complete the questionnaire evaluation of the course in particular.
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor <ul style="list-style-type: none">• Observations and the assistance of colleagues.• Independent evaluation for extent to achieve students the standards.• Independent advice of the duties and tasks.
3 Processes for Improvement of Teaching <ul style="list-style-type: none">• Workshops for teaching methods.• Continuous training of member staff.• Review of strategies proposed.• Providing new tools for learning.



- **The application of e-learning.**
- **Exchange of experiences internal and external.**

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)

- **Check marking of a sample of exam papers, or student work.**
- **Exchange corrected sample of assignments or exam basis with another staff member for the same course in other faculty.**

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

- **Periodic Review of the contents of the syllabus and modify the negatives.**
- **Consult other staff of the course.**
- **Hosting a visiting staff to evaluate of the course.**
- **Workshops for teachers of the course.**

Faculty or Teaching Staff: Professor Mohamed R. Shaaban

Signature:

Date Report Completed: 12/1/2019

Received by: Dr. Ismail Althagafi Department Head

Signature:

Date: 20/1/2019

