هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title:	Cosmetics and Perfumes
Course Code:	ICHM464-2
Program:	Bachelor of Science in Industrial Chemistry
Department:	Department of Physical Sciences
College:	College of Science
Institution:	Jazan University
Version:	TP-153 (2024)
Last Revision Date:	13 February 2024

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (2hrs)

2. Course type

A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☐ Required		☒ Elective		

3. Level/year at which this course is offered: (8th Level/4thyear)

4. Course general Description:

Course title	Course code	Contact Hours			Credit Hours	Year	Level	Prerequisite	Corequisite
		Lec	Tut	Lab					
Cosmetics and perfumes	ICHM464-2	2	0	0	2	4th	8th	CHEM336-2	---

This course covers the chemistry, types, and manufacture of cosmetics and perfumes.

5. Pre-requirements for this course (if any)**:**

CHEM336-2

6. Co-requisites for this course (if any)**:**

None

7. Course Main Objective(s):

1. **To enable the student to understand the basics of the chemistry of cosmetics.**
2. **To learn the concept of types of cosmetics.**
3. **To supply the student with the basics of manufacture of cosmetics.**
4. **To explain the different strategies for preparation flavors and fragrances.**
5. **To understand the classification of perfumes and categories as per the ingredients.**

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	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**	30
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		30 hr

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding;** *Upon completion of the course, students are able to:*			
1.1	**Demonstrate a thorough understanding of the classifications and general types of essential oils, alcohols, esters , acids, aldehydes and ketones used in flavors and fragrances in cosmetics manufacture (M)**	**K1**	**Lecture and Scientific discussion**	• **Periodic Exams** • **Assignments & Classroom activities** • **Final Exam**
1.2	**Describe and Identify the different types of surfactants used in cosmetics and the different types of hair and skin care agents (M)**	**K2**	**Lecture and Scientific discussion**	• **Periodic Exams** • **Assignments & Classroom activities** • **Final Exam**
2.0	**Skills;** *Upon completion of the course, students are able to:*			
2.1	**Predict the chemical structure of different compounds used in cosmetics manufacture, compare between them, explain the different strategies for preparation flavors and fragrances.**	**S1**	**Lecture and Scientific discussion**	• **Periodic Exams** • **Assignments & Classroom activities** • **Final Exam**

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	(M)			
2.2	Communicate scientific information and research findings effectively in writing research papers and orally using clear and concise scientific language. (M)	S5	Scientific Discussion, writing research papers and Oral presentation	Classroom activities
3.0	**Values, autonomy, and responsibility;** *Upon completion of the course, students are able to:*			
3.2	Recognize a chemist's ethical and scientific responsibilities. (M)	V2	cooperative learning	Classroom activities

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to cosmetics.	2
2.	Alcohols used in cosmetics.	2
3.	Aldehydes and ketones used in flavors and fragrances.	4
4.	Carboxylic acids and esters in essential oils.	4
5.	Surface active agents: types and its importance in cosmetics manufacture.	4
6.	Hair care and Skin care agents: their structures and types.	2
7.	Dyes used in cosmetics: chemical structure.	2
8.	Definition of Perfume. Formulation of Perfume.	2
9.	Comparison between deodorant and antiperspirant.	4
10	Essential oils and the importance in cosmetic industries	4
	Total	30 *hr*

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	*Periodic Exams*	*During Semester*	*30%*
2.	*Assignments & Classroom Activities*	*During Semester*	*20%*
6.	*Final Exam*	*16-17*	*50%*
	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	**1. Harry's Cosmeticology- Wilkinson, J. B., Harry, Ralph G. Hill Books, Leonard, 1973.** **2. De Navaree, The Chemistry and Manufacture of Cosmetics- vol. 1 to 4 (Von. Nostrand) 1962.**
Supportive References	**1. Handbook of Cosmetic Science and Technology, 3rd edition Andr é O. Barel, Marc Paye and Howard I. Maibach, 2009** **2. Cosmetics science and Technology, Edward Sagarin, Inter Science Publications,** **1957.**
Electronic Materials	• **http://www.chemweb.com** • **http://www.rsc.org**
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture room(s) for groups of 50 students
Technology equipment (projector, smart board, software)	Smart board, Data show, Black board, internet
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Student	Likert-type Survey CES) Indirect
Effectiveness of Students' assessment	Instructor & Course coordinator	Class room evaluation (direct & indirect
Quality of learning resources	Program coordinator	Indirect
The extent to which CLOs have been achieved	Assessment committee	Indirect
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Physical Sciences Department Council
REFERENCE NO.	Meeting (3)
DATE	12/03/2024 -02/09/1445