

## Course Description Form

1. Course Name:					
Pharmaceutical & Cosmetic Preparations (Theoretical+ Practical)					
2. Course Code:					
Phind25 329-					
3. Semester / Year:					
Second semester/2025-2026					
4. Description Preparation Date:					
25/3/2026					
5. Available Attendance Forms:					
Students' signature on attendance sheet					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 hours Theoretical + 2 hours Practical (75) /4 units					
7. Course administrator's name					
Theoretical					
Name: Thamer A Omar					
Email: <a href="mailto:thamer.omar@uomosul.edu.iq">thamer.omar@uomosul.edu.iq</a>					
Ghayth M Abdulrazzaq					
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Practical					
Dr. Noora Thamer					
Email: <a href="mailto:noora.aldabbagh88@uomosul.edu.iq">noora.aldabbagh88@uomosul.edu.iq</a>					
Zahraa Hussein					
Email: <a href="mailto:zahraa.2021@uomosul.edu.iq">zahraa.2021@uomosul.edu.iq</a>					
8. Course Objectives					
<b>Course Objectives</b>					
To teach theoretical bases for the technology of preparing different dosage forms with respect to their raw materials, compositions, methods of preparation, stability, storage and uses; in addition to define and characterize the possible incompatibilities that may occur in dosage forms					
9. Teaching and Learning Strategies					
<b>Strategy</b>	Lecturing Seminars Homework Quiz Practical laboratory demonstrations				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	Introduction Definition of emulsion Types of emulsion and terminology Classification of emulsions according to -physical state -route of	Emulsion	Theoretical lectures.  Laboratory experiments	Paper-based exams

		administration Disadvantage of emulsion Theory of emulsion			
2	3+2	Main properties Types Calculation of concentration of SAA  Small Scale Large scale main method of emulsification	Emulsifying agents  Methods of preparation of emulsion	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
3	3+2	stability of emulsions terms associated with emulsions storage of emulsion preservation	Emulsion	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
4	3+2	Definition Advantages Route of administration Site of drug delivery Supp. Shapes Types and example of Suppository Fate of Suppository	Suppositories Inserts	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
5	3+2	Ideal properties Types of bases  Suppository Molds Determination of the amount of base* Vaginal Inserts* Packaging and Storage*	Suppository Bases  Methods of preparation	Theoretical lectures.  Laboratory experiments.	Paper-based exams
6	3+2	introduction Ideal properties of ointment base types of ointment bases(USP) comparison between the ointment bases Selection of ideal ointment base	Semisolids	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
7	3+2	Preparation of ointment COMPENDIAL REQUIREMENTS FOR OINTMENTS ophthalmic ointment	Semisolids	Theoretical lectures.  Laboratory demonstration.	Paper-based exams

		(sterile ointment) Creams ( vanishing creams) Definition pastes definition gels definition			
8	<b>Mid-term exam</b>				
9	3+2	Toners and astringents Introduction Product nomenclature Formulation considerations Formulation Challenges Ingredient and Vehicle Stability and Compatibility Considerations Uses in dermatology Adverse reaction	Cosmetic Formulations	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
10	3+2	Antiperspirants : Introduction Function of antiperspirants Function of deodorants Formulation	Cosmetic Formulations	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
11	3+2	Sunscreens: Introduction Function Limitations of the SPF test Active Ingredients: UV Filters Products Aesthetics/Skin Feel Formulation challenges Regulatory issues	Cosmetic Formulations	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
12	3+2	Anti-aging skin care formulations: Forms Mechanisms Efficacy Product/Formulation Challenges	Cosmetic Formulations	Theoretical lectures.  Laboratory demonstration.	Paper-based exams
13	3+2	Topical Exfoliative: Introduction Physical exfoliants Chemical exfoliation	Cosmetic Formulations	Theoretical lecture	Paper-based exams

		Exuviating Compounds			
14	3+2	Herbs in cosmeceuticals: Introduction Processing botanicals Herbs utilized for skin care:Hydrating, soothing, and cleansing Herbs utilized for skin care:Anti-oxidant and brightening Herbs utilized for Acne Herbs utilized for hair care	Cosmetic Formulations	Theoretical lectures.	Paper-based exams
15	3+2	introduction types of incompatibility Physical Incompatibility chemical incompatibility	Pharmaceutical Incompatibility	Theoretical lectures.  Laboratory demonstration.	Paper-based exams

#### 11. Course Evaluation

- 20 M Theoretical assessment; (paper-based mid-term exam + quiz + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice)
- 60 M paper-based theoretical final exam

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Total 100 M

#### 12. Curriculum update percentage

About 5 %

#### 13. Learning and Teaching Resources

Required textbooks	1. Ansel's pharmaceutical dosage forms and drug delivery system, 11th Edition.
Main references (sources)	1. Encyclopedia of pharmaceut technology, third edition
Electronic References, Websites	<a href="http://www.thepoint.lww.com/Allen9e">http://www.thepoint.lww.com/Allen9e</a>