



DEPARTMENT: SCHOOL OF PHARMACY		ACADEMIC SESSION:2023-24		FOR BATCH :- B. PHARM 8th SEM	
1	Course No.	BP809ET			
2	Course Title	Cosmetic Science			
3	Credits	4			
4	Learning Hours	Contact hours - 45 hours			
5	Course Objective	<p>Upon completion of course student shall be able to</p> <ol style="list-style-type: none"> 1. Understanding the importance of classification of cosmetic, cosmetic excipients 2. Importance of different cosmetic formulation for hair and skin care product 3. Role of herbal in cosmetics 4. Appreciate the analytical method for evaluation of cosmetics. 5. Know about problem related to skin and hair on applying cosmetics 			
6	Course Outcomes	<p>After completing the course, the students will be able to:</p> <ul style="list-style-type: none"> ➤ Student will be able to know about the role of pharmaceuticals in formulation of cosmetic ➤ Student will be able to understand principles and building block of skin care and hair care products. ➤ Student will know about SPF and analytical cosmetics ➤ Students will come to know different principles of cosmetics evaluation. ➤ Students will come to know about different Cosmetic problems associated with skin. 			
7	Outline syllabus:				
	Paper Code	Unit	Introduction	Book & References	Lectures
7.01	UNIT I BP809ET	(a)	Classification of cosmetic and cosmeceutical products	2. Page No.3 to 4	1
		(b)	Definition of cosmetics as per Indian and EU regulations, Evolution of cosmeceuticals from cosmetics, cosmetics as quasi and OTC drugs	3. Page no. 1-52	2
		(c)	Cosmetic excipients: Surfactants, rheology modifiers, humectants, emollients, preservatives. Classification and application	1. Page No:333 to 377 3. Page no. 769 to 812.	3
		(d)	Skin: Basic structure and function of skin.		1
		(e)	Hair: Basic structure of hair. Hair growth cycle.	3. Page no. 687-704	1
		(f)	Oral Cavity: Common problem associated with teeth and gums.	1. Page No. 305 to 327	2

7.02	UNIT II BP809ET	(a)	Principles of formulation and building blocks of skin care products: Face wash, Moisturizing cream, Cold Cream, Vanishing cream and their advantages of these products in formulation of cosmeceuticals.	2. Page no 210-401.	3
		(b)	Antiperspirants & deodorants- Actives & mechanism of action.	2. Page no 11-26.	1
		(c)	Principles of formulation and building blocks of Hair care products: Conditioning shampoo, Hair conditioner, anti-dandruff shampoo. Hair oils.	2. Page no 89-163.	5
		(d)	Chemistry and formulation of Para-phenylene diamine based hair dye	2. Page no 164-195.	1
7.03	Unit III BP809ET	(a)	Sun protection, Classification of Sunscreens and SPF.	2. Page no. 402-424.	2
		(b)	Role of herbs in cosmetics: Skin Care: Aloe and turmeric Hair care: Henna and amla Oral care: Neem and clove		4
		(c)	Analytical cosmetics: BIS specification and analytical methods for shampoo, skin- cream and toothpaste.	2. Page no. 54-77.	4
7.04	Unit IV BP809ET	(a)	Principles of Cosmetic Evaluation: Principles of sebumeter, corneometer.		5
		(b)	Measurement of TEWL, Skin Color, Hair tensile strength, Hair combing properties Soaps, and syndet bars.	1. Page no. 1 to 311.	
		(c)	Evolution and skin benefits.		3
7.05	Unit V BP809ET	(a)	Oily and dry skin, causes leading to dry skin, skin moisturisation. Basic understanding of the terms Comedogenic, dermatitis.	1. Page no. 395 to 585.	3
		(b)	Cosmetic problems associated with Hair and scalp: Dandruff, Hair fall causes		2
		(c)	Cosmetic problems associated with skin: blemishes, wrinkles, acne, prickly heat and body odor.		2
8	Course Evaluation				
8.1	Internal Assessment: Continuous Mode				
8.11	Attendance			4 Marks	

8.12	Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3 Marks
8.13	Student-Teacher Interaction	3 Marks
9	Text Books & References:	
	1. Harry's Cosmeticology, Wilkinson, Moore, Seventh Edition, George Godwin. 2. WA Poucher, Perfume, cosmetics and soaps, Volume 3, 3. Andre O Barel, Marc Paye, "Handbook of Cosmetic Science and Technology", 3 rd Edition	

Subject teacher – Mrs. Reeni

QUESTION BANK

UNIT I

1. What is cosmetics. Write classification of cosmetics.
2. Write definitions of cosmetics as per Indian and EU regulation
3. Write basic structure and function of skin
4. Write basic structure and hair cycle of hair
5. Write a note on cosmetics excipients.
6. Write in detail cosmetics excipients classification and application.
7. Explain in detail common problem associated with teeth and gum.

UNIT II

1. Write basic formulation of skin care product.
2. Write the mechanism of action of deodorant and antiperspirant.
3. Write Principles of formulation and building blocks of skin care products and their advantages:
 - i. Cold cream
 - ii. Vanishing cream
 - iii. Moisturizing cream
 - iv. Face wash
4. Explain formulation of Para-phylyene diamine based hair dye.
5. Write Principles of formulation and building blocks of hair care products and their advantages:
 - i. Conditioning shampoo
 - ii. Hair conditioner
 - iii. anti-dandruff shampoo
 - iv. Hair oils

UNIT III

1. Write a note on Sun Protection.
2. Describe SPF.
3. Write Classification of Sunscreen.
4. Write a role of herbs in cosmetics.

5. Write short note on following:
 - i. Aloe
 - ii. Turmeric
 - iii. Henna
 - iv. Amla
 - v. Neem
 - vi. Clove
6. Describe Analytical cosmetic.
7. Explain BIS Specification.
8. Write a note on analytical method of:
 - i. Shampoo
 - ii. Toothpaste
 - iii. Skin cream

UNIT IV

1. Explain principle of Cosmetics evaluation.
2. Write in principle of following:
 - i. Sebumeter
 - ii. Corneometer
3. Explain in detail measurement of:
 - i. TEWL.
 - ii. Skin Color
 - iii. Hair tensile strength.
4. Describe evolution and skin benefits.

UNIT V

1. What is Comedogenic and dermatitis.
2. Write about Oily and dry skin and causes leading to dry skin, skin moisturisation
3. Write in detail Cosmetic problems associated with Hair and scalp:
 - i. Dandruff
 - ii. Hairfall
4. Explain in detail Cosmetic problems associated with skin:
 - i. Blemishes
 - ii. Wrinkles
 - iii. acne
 - iv. prickly heat
 - v. Body odor.