

<b>INSTITUTE</b>	<b>FACULTY OF PHARMACY</b>
<b>PROGRAM</b>	<b>BACHELOR OF PHARMACY</b>
<b>SEMESTER</b>	<b>8</b>
<b>COURSE TITLE</b>	<b>COSMETIC SCIENCE</b>
<b>COURSE CODE</b>	<b>13PH0809</b>
<b>COURSE CREDITS</b>	<b>4</b>

**Objective:**

- 1 This subject deals with cosmetic products, cosmetic excipients, skincare products and their methods of preparation and evaluations.

**Course Outcomes:** After completion of this course, student will be able to:

- 1 Know the regulations about cosmetics and cosmetic excipients.
- 2 Know the preparations of various skincare products like creams, antiperspirants, deodorants, hair care products etc.
- 3 Know about the role of herbs in sunscreens.

**Pre-requisite of course:**None

**Teaching and Examination Scheme**

<b>Theory Hours</b>	<b>Tutorial Hours</b>	<b>Practical Hours</b>	<b>ESE</b>	<b>IA</b>	<b>CSE</b>	<b>Viva</b>	<b>Term Work</b>
3	1	0	75	15	10	0	0

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Classification of cosmetic and cosmeceutical products</b> Classification of cosmetic and cosmeceutical products: Definition of cosmetics as per Indian and EU regulations, Evolution of cosmeceuticals from cosmetics, cosmetics as quasi and OTC drugs. Cosmetic excipients: Surfactants, rheology modifiers, humectants, emollients, preservatives. Classification and application. Skin: Basic structure and function of the skin. Hair: Basic structure of the hair. Hair growth cycle. Oral cavity: Common problem associated with teeth and gums.	10

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
2	<b>Principles of formulation and building blocks of skincare products:</b> Principles of formulation and building blocks of skincare products: Face wash, Moisturizing cream, Cold Cream, Vanishing cream and their advantages and disadvantages. Application of these products in the formulation of cosmeceuticals. Antiperspirants & deodorants: Actives & mechanism of action. Principles of formulation and building blocks of Haircare products: Conditioning shampoo, Hair conditioner, anti-dandruff shampoo. Hair oils. Chemistry and formulation of Para-phenylene diamine based hair dye. Principles of formulation and building blocks of oral care products: Toothpaste for bleeding gums, sensitive teeth. Teeth whitening, Mouthwash.	10
3	<b>Sun protection, classification of sunscreens and SPF</b> Principles of formulation and building blocks of skincare products: Face wash, Moisturizing cream, Cold Cream, Vanishing cream and their advantages and disadvantages. Application of these products in the formulation of cosmeceuticals. Antiperspirants & deodorants: Actives & mechanism of action. Principles of formulation and building blocks of Haircare products: Conditioning shampoo, Hair conditioner, anti-dandruff shampoo. Hair oils. Chemistry and formulation of Para-phenylene diamine based hair dye. Principles of formulation and building blocks of oral care products: Toothpaste for bleeding gums, sensitive teeth. Teeth whitening, Mouthwash.	10
4	<b>Principles of cosmetic evaluation:</b> Principles of cosmetic evaluation: Principles of sebumeter, corneometer. Measurement of TEWL, Skin Color, Hair tensile strength, Hair combing properties Soaps, and syndet bars. Evolution and skin benefits.	8
5	<b>Oily and dry skin:</b> Oily and dry skin: causes lead to dry skin, skin moisturisation. Basic understanding of the terms Comedogenic, dermatitis. Cosmetic problems associated with hair and scalp: Dandruff, Hair fall causes. <a href="http://www.marwadiuniversity.ac.in">www.marwadiuniversity.ac.in</a> Page 2 of 1 Cosmetic problems associated with skin: blemishes, wrinkles, acne, prickly heat and body odour. Antiperspirants and Deodorants- Actives and mechanism of action.	7
<b>Total Hours</b>		<b>45</b>

### Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
1	<b>Tutorials</b> Tutorial 1, Tutorial 2, Tutorial 3, Tutorial 4, Tutorial 5, Tutorial 6, Tutorial 7, Tutorial 8, Tutorial 9, Tutorial 10, Tutorial 11, Tutorial 12, Tutorial 13, Tutorial 14, Tutorial 15	15
<b>Total Hours</b>		<b>15</b>

### Textbook :

- 1 Harry's Cosmeticology,, Moore, Seventh Edition,, George Godwin., 1973

### References:

- 1 Cosmetics – Formulations, Manufacturing and Quality Control, P.P. Sharma, 4th Edition, Vandana Publications Pvt. Ltd., Delhi.
- 2 Textbook of cosmetology by Sanju Nanda & Roop K. Khar, Tata Publishers.
- 3 Textbook of Cosmetics by M. Vimaladevi.

### Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	Understand	Apply	Analyze	Evaluate	Higher order Thinking / Creative
20.00	30.00	25.00	15.00	10.00	0.00

### Instructional Method:

- 1 The course delivery method will depend upon the requirement of content and the need of students. The teacher in addition to the conventional teaching method by the blackboard may also use any tools such as demonstration, role play, quiz, brainstorming, MOOCs etc.
- 2 The internal evaluation will be done based on continuous evaluation of students in the laboratory and classroom.
- 3 Students will use supplementary resources such as online videos, NPTEL videos, MOOCs/ e-courses, virtual laboratories.