

<b>INSTITUTE</b>	<b>FACULTY OF PHARMACY</b>
<b>PROGRAM</b>	<b>BACHELOR OF PHARMACY</b>
<b>SEMESTER</b>	<b>5</b>
<b>COURSE TITLE</b>	<b>PHARMACEUTICAL COSMETIC SCIENCE</b>
<b>COURSE CODE</b>	<b>13OE0003</b>
<b>COURSE CREDITS</b>	<b>3</b>

**Objective:**

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

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

- 1 After completion of the course, students can know,
  1. Know the regulations about cosmetics and cosmetic excipients.
- 2 They will be knowing the preparations of various skincare products like creams, antiperspirants, deodorants, hair care products, etc.
- 3 They also know about the role of herbs in sunscreens.

**Pre-requisite of course:** It is an open elective subject. Hence, it does not have any pre-requisitions.

**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	0	0	50	30	20	0	0

<b>Contents : Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	<b>Classification of cosmetic and cosmeceutical products</b> 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, and 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> 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, and sensitive teeth. Teeth whitening, Mouthwash.	10
3	<b>Sun protection, classification of sunscreens and SPF</b> Role of herbs in cosmetics, Skin Care: Aloe, and turmeric Haircare, Henna and amla. Oral care: Neem and clove. Analytical cosmetics: BIS specification and analytical methods for shampoo, skin cream, and toothpaste.	10
<b>Total Hours</b>		<b>30</b>

**Textbook :**

- 1 Harry's Cosmeticology, Wilkinson, Moore, George Godwin, 2011

**References:**

- 1 Textbook of cosmetology, Textbook of cosmetology, by Sanju Nanda & Roop K. Khar, Tata Publishers, 2010
- 2 Cosmetics – Formulations, Manufacturing and Quality Control, Cosmetics – Formulations, Manufacturing and Quality Control, P.P. Sharma, Vandana Publications Pvt. Ltd., Delhi, 1998
- 3 Textbook of Cosmetics , Textbook of Cosmetics , by M. Vimaladevi, CBS Pubkication, 2012

**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					
<b>Remember / Knowledge</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Higher order Thinking / Creative</b>
10.00	20.00	25.00	25.00	10.00	10.00