



PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY, PANIPAT
DEPARTMENT OF PHARMACY



Course: Bachelor in Pharmacy

LESSON PLAN

Faculty Name: Dr. Shiva Tushir

Subject Name: Cosmetic science

Class: B. Pharmacy – 8th Semester

Subject Code: BP809ET

Scope of the Subject: The main purpose of subject is to impart the student's knowledge and enables the student to understand about cosmeceutical products and appreciate the influence of pharmaceutical additives on quality of products. Utilization of various herbs for their properties as cosmetics and benefits of cosmeceutical products.

Objectives: Upon completion of the course the student shall be able to:

- Know the various types of cosmeceutical products related to skin, hair and oral cavity
- To know about role of herbs in cosmetics.
- Principles of Cosmetic Evaluation and Evolution of various cosmeceutical like shampoo, skin cream and toothpaste.

Number of Lectures: 45

Each lecture: 01 hour

Lecture No.	Particular	Remark/ Date
UNIT-I : Introduction to Cosmeceutical:		
1.	Introduction to Cosmetic	
2.	History of Cosmeceutical products	
3.	Definition of cosmetics as per Indian and EU regulations	
4.	cosmetics as quasi and OTC drugs	
5.	Basic structure and function of skin	
6.	Basic structure of hair	
7.	Study of Hair growth cycle	
8.	Common problem associated with teeth and gums	
9.	Study of Cosmetic Surfactants and Rheology modifiers,	
10.	Study of Cosmetic Humectants, Emollients and Preservatives	
UNIT-II : Principles of formulation and building blocks of skin care products:		
11.	Principles of formulation of Moisturizing creams	
12.	Principles of formulation of Cold Cream and Vanishing cream	
13.	Principles of formulation of Antiperspirants & deodorants	
14.	Principles of formulation of anti dandruff shampoo	
15.	Principles of formulation of Hair conditioner	
16.	Detailed study of Principles of formulation of Hair oils.	
17.	Chemistry and formulation of Para-phenylene diamine based hair dye	
18.	Principles of formulation and building blocks of oral care products	

19.	Toothpaste for bleeding gums, sensitive teeth and Teeth whitening	
20.	Principles of formulation of Mouthwash	
UNIT-III : Role of herbs in cosmetics:		
21.	Role of Aloe and turmeric in Skin Care	
22.	Role of Henna and amla in Hair care	
23.	Role of Neem and clove in Oral care	
24.	BIS specification and analytical methods for shampoo	
25.	BIS specification and analytical methods for skin-cream	
26.	BIS specification and analytical methods for toothpaste	
27.	Classification of Sunscreens and SPF	
UNIT-IV: Principles of Cosmetic Evaluation:		
28.	Introduction to Cosmetic Evaluation	
29.	Principles of sebumeter	
30.	Principles of corneometer	
31.	Principles of Measurement of TEWL	
32.	Principles of Measurement of Skin Color	
33.	Principles of Measurement of Hair tensile strength	
34.	Principles of Measurement of Hair combing properties	
35.	Introduction to different types of Soaps	
36.	Evolution and skin benefits of Soaps	
37.	Evolution and skin benefits of syndet bars	
UNIT-V: Cosmetic problems:		
38.	Cosmetic problems associated with Hair and scalp: Dandruff causes	
39.	Cosmetic problems associated with Hair and scalp: Hair fall causes	
40.	Cosmetic problems associated with skin: blemishes	
41.	Cosmetic problems associated with skin: wrinkles	
42.	Cosmetic problems associated with skin: acne	
43.	Cosmetic problems associated with skin: prickly heat and body odor	
44.	Oily and dry skin and causes leading to dry skin	
45.	Basic understanding of dermatitis and causes leading to dermatitis	

Teacher in-charge

HOD

Principal