

18BP094 COSMETIC SCIENCE

Hours Per Week :

L	T	P	CP	CL
3	1	-	-	4

Total Hours :

L	T	P	WA/RA	SSH/HSH	CS	SA	S	BS
45	1	-						

SCOPE:

This subject is designed to impart the basic knowledge of cosmetics and evaluation of cosmetic studies including design, conduct and interpretations of results.

COURSE OUTCOMES:

Upon completion of the course, the student will be able to achieve the following outcomes:

COs	Course Outcomes	POs	PSOs
1	Principles of formulation and building blocks of skin care products	1,4	1,2
2	Principles of formulation and building blocks of Hair care products	1,4	1,2
3	Role of herbs in cosmetics	1,4	1,2
4	Principles of Cosmetic Evaluation	1,4	1,2

UNIT-I**10HOURS**

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 skin.

HAIR: Basic structure of hair. Hair growth cycle.

ORAL CAVITY: Common problem associated with teeth and gums.

UNIT - II**10HOURS**

PRINCIPLES OF FORMULATION AND BUILDING BLOCKS OF SKIN CARE PRODUCTS: Face wash, Moisturizing cream, Cold Cream, Vanishing cream and their advantages and disadvantages. Application of these products in formulation of cosmeceuticals.

ANTIPERSPANTS & DEODORANTS: Actives & mechanism of action. Principles of formulation and building blocks of Hair care products: Conditioning shampoo, Hair conditioner, and 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, Mouth wash.

UNIT - III**10HOURS**

Sun protection, Classification of Sunscreens and SPF.

ROLE OF HERBS IN COSMETICS: Skin Care: Aloe and turmeric Hair care: Henna and amla.

Oral care: Neem and clove

ANALYTICAL COSMETICS: BIS specification and analytical methods for shampoo, skin- cream and toothpaste.

UNIT - IV**08HOURS.**

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.

UNIT - V**07HOURS**

Oily and dry skin causes leading to dry skin, skin moisturisation. Basic understanding of the terms Come do genic, dermatitis. Cosmetic problems associated with Hair and scalp: Dandruff, Hair fall causes Cosmetic problems associated with skin: blemishes, wrinkles, acne, prickly heat and body odour. Antiperspirants and Deodorants- Actives and mechanism of action

REFERENCES

1. Harry's Cosmeticology, Wilkinson, Moore, Seventh Edition, George Godwin.
2. Cosmetics – Formulations, Manufacturing and Quality Control, P.P. Sharma, 4th Edition, Vandana Publications Pvt. Ltd., Delhi.
3. Text book of Cosmeticology by Sonja Nanda & Roop K. Char, Tata Publishers.

