

**Sri Krishna Dutt Academy,
Vrindavan Yojna, Raibareilly Road,
Lucknow (U.P.)**
(An Associated college of University of Lucknow)

COSMETICS CHEMISTRY: AN INTRODUCTION

Scope

- ▶ The students will be familiar with the physical and chemical properties and reactions of commonly used raw materials in cosmetics.
- ▶ Students will be familiar with chemistry (especially the reactivity and stability of an organic molecules based on structure and isomerism) of commonly used chemicals.
- ▶ They will know common natural raw materials in cosmetics, especially the basic functional group involved, their properties and applications.

Objectives

- This course is designed to provide foundation knowledge of cosmetic principles to address the needs of cosmetic industry.
- Provide practical skills in the area of biology, formulation science, cosmeceuticals (cosmetics with-, skin, hair and oral care benefits) and personal care and hygiene products.
- Provide knowledge on cosmetics, and related sciences,
- Provide with knowledge on marketing approaches on studying consumer need, need gaps, managing competition and global markets.

Nature of Course

Value added certificate course

Advantages

Students will be familiar with the different exposure of chemicals used in the cosmetics and one can design and practice ecofriendly cosmetics of their own.

Course Outcomes

- The student will acquire basic information about the possibilities and limitations of cosmetic products, their importance and marketing.
- To know the prohibited, regulated and authorized ingredients for cosmetic products, their origin. Chemical nature and importance.
- To familiar with the principles of production as well as composition of cosmetics and products.

UNIT-I

Cosmetics- Classification, significance, quality control and its importance, stability of product forms and its significance. Physical and chemical properties of agents and designing of different product forms. Review of current product forms in market.

UNIT-II

Basic raw materials, preparation and uses of Hair dye, Shampoo, Lipsticks, Handmade herbal Soap, Herbal tooth powder, Phenyl making, liquid soap and detergents.

UNIT-III

Essential oils and their importance in cosmetic industries with reference to Eugenol, Geraniol, sandalwood oil, eucalyptus, rose oil, Civetone and Muscone.

Unit-IV

Surfactants- Introduction, physical and chemical properties, its types, HLB scale and its application in cosmetics. Review of commercialized surfactants.