

SEMESTER PATTERN SYLLABUS
BACHELOR OF COSMETIC TECHNOLOGY

SEMESTER - I

- 1. Cosmetic Chemistry :**
 - Principles of estimation and assay.
- 2. Anatomy & Physiology :**
 - Fundamental Knowledge of cellular organs of human body.
- 3. Organic Chemistry :**
 - Analysis and synthesis of organic compound.
- 4. Physical Chemistry :**
 - Physical interaction and compatibility of various raw materials in different phases.
- 5. Natural Cosmetic Agents :**
 - Study of herbs and valuable oils.
- 6. Elementary Mathematics :**
 - Understanding Algebra and co-ordination Geometry.

SEMESTER - II

- 1. Cosmetic Chemistry :**
 - Principles of estimation and assay.
- 2. Anatomy & Physiology :**
 - Study of human organ systems and their functions.
- 3. Organic Chemistry :**
 - Analysis and synthesis of organic compound.
- 4. Physical Chemistry :**
 - Physical interaction and compatibility of various raw materials in different phases.
- 5. Natural Cosmetic Agents :**
 - Study of mineral ingredients and study of drug adulterations.
- 6. Communication Skills :**
 - Writing skills and listening skills and overall personality development.

SEMESTER - III

- 1. Cosmetic Technology :**
 - Monophasic systems & introduction to different cosmetic ingredients..
- 2. Instrumental Methods of Analysis :**
 - Introduction to instruments and analytical methods used for quality testing of Cosmetic products.
- 3. Cosmetic Engineering :**
 - Introduction to fluid mechanics and conveyors with reference to cosmetic industry.
- 4. Cosmetic Chemistry :**
 - Biochemical aspects of Amino acids, proteins and enzymes and their importance and uses with respect to cosmetic industry.
- 5. Introductory Pharmacology & Toxicology :**
 - Pharmacological aspects of cosmetics through skin.
- 6. Drug and Cosmetic Laws :**
 - Introduction & Understanding of regulations regarding cosmetic products.
- 7. Beauty Culture :**
 - Basic grooming & beauty techniques.

SEMESTER - IV

- 1. Cosmetic Technology :**
 - Introduction to biphasic systems and various cosmetic formulations.
- 2. Instrumental Methods of Analysis :**
 - Knowledge & ease of using different techniques & instrumental which form the basis of quality control tools used in cosmetics..
- 3. Cosmetic Engineering :**
 - Fundamental concepts of material and energy balance.
- 4. Cosmetic Chemistry :**
 - Biochemical aspects of lipids, vitamins & excipients and their special use in cosmetic formulations .
- 5. Introductory Pharmacology & Toxicology :**
 - Types of Pharmacology of topical drugs and various cosmeceutical products.
- 6. Drug & Cosmetic Laws :**
 - Knowledge of legal acts for manufacturing and patenting in Cosmetic fields.

SEMESTER - V

- 1. Perfumes :**
 - Introduction to sources and extraction of perfumes from natural sources.
- 2. Cosmetic Technology :**
 - Information of different excipients used in skin care product with especial emphasis on creams astringents and face packs.
- 3. Principle of Cosmeceutics :**
 - Basic concepts & understanding of dispersed system & its stability.
- 4. Cosmetic Engineering :**
 - Knowledge of size reduction size separation & filtration techniques.
- 5. Beauty Culutre :**
 - Detailed study of skin structure & types & introduction to aroma therapy.
- 6. Pharmacology & Interaction :**
 - Interaction & effect of cosmetic ingredients on skin, hair, nail and teeth.

SEMESTER - VI

- 1. Perfumes :**
 - Knowledge of fixatives, synthetic manufacturing of perfumes.
- 2. Cosmetic Technology :**
 - Formulation & Development of baby products, colored cosmetics and eye cosmetics.
- 3. Principles of Cosmeceutics :**
 - Introduction to rheology, micromeritic, complexation & distribution phenomenon and its application.
- 4. Cosmetic Engineering :**
 - Study of unit operations like drying, distillation and evaporation.
- 5. Beauty Culture :**
 - Knowledge of various beauty therapies and regimes.
- 6. Pharmacology & Interaction :**
 - Introduction to safety evaluation of cosmetics and dermatology testing as per BIS.

SEMESTER - VII

- 1. Perfumes & Colours :**
 - Study of perfumes and its incorporation in cosmetics. Introduction of aerosol technology for perfume packaging. Incorporation of color flavor in hair care eye care products.
- 2. Cosmetic Technology :**
 - Detailed study of hair care preparations.
- 3. Plant Design :**
 - Selection of materials and designing of machine elements and its application in industries. Different aspects of plant layout planning.
- 4. Quality Assurance Techniques :**
 - Importance of quality control in cosmetic preparations and significance and role of ISO in cosmetic industry.
- 5. Herbal Cosmetics :**
 - Study of preparation and storage of herbal actives for skin care and hair care products and its future scope.
- 6. Organization & Management of Industries :**
 - Different Managementerial skills and its application in entrepreneurial development .

SEMESTER - VIII

- 1. Perfumes & Colours :**
 - Introduction & incorporation of colours in cosmetic products with special reference to drugs and cosmetic laws.
- 2. Cosmetic Technology :**
 - Formulation & development of sucreen, manicure, foot care and oral care preparation.
- 3. Plant Design :**
 - Introduction to material and process hazards and safety measures. Designing of industrial equipments.
- 4. Quality Assurance Techniques :**
 - Study & importance of microbial analysis in cosmetic products.
- 5. Herbal Cosmetics :**
 - Extraction and incorporation of herbal extract (actives) in cosmetic product.
- 6. Organization & Management of Industries :**
 - Fundamental of business organization and management and knowledge o market management and advertising skills .

