

SEMESTER I

Sant Gadge Baba Amravati University, Amravati

Faculty of Science and Technology

Teaching and Learning Scheme for the degree of B Tech (Cosmetic)

(Three Year Six Semester Bachelor's Degree Programme)

| Mode of Teaching | Verticle No. | The Verticle | Type of Course | Course Code | Course Name | Credits | Work load (Hrs./week) | Verticle workload (Hrs. / Week) |
|---|--------------|------------------------|-------------------|-------------|-------------------------------------|---------|-----------------------|---------------------------------|
| Classroom Teaching/ Lab Work (Practical)/ Outdoor/Field | a | Major / Minor | Theory 1 | | Cosmetic Technology - I | 02 | 02 | 6 |
| | | | Lab/Practical-1 | | Cosmetic Technology – I Practical | 02 | 04 | |
| | b | Minor/ Major | Theory 1 | | Fundamentals of HAP-I | 02 | 02 | 6 |
| | | | Lab/Practical - 2 | | Fundamentals of HAP-I Practical | 02 | 04 | |
| | c | Generic/ Open Elective | Theory-I | | Beauty Culture - I | 02 | 02 | 04 |
| | | | Theory-II | | Herbal Cosmetic | 02 | 02 | |
| | d | SEC | Lab/Practical - 3 | | Beauty Culture- I Practical | 02 | 04 | 04 |
| | e | AEC-English | Theory | | Communication Skill | 01 | 01 | 06 |
| | | AEC-MIL | Theory | | Communication Skill | 01 | 01 | |
| | | IKS - Generic | Theory | | History of Indian Cosmetic Industry | 02 | 02 | |
| | | VEC | Theory | | Value Education | 02 | 02 | |
| | f | CC | Field Project | | Beauty Culture Field Project | 02 | 04 | 04 |
| | | Total | | | | 22 | 30 | 30 |

Syllabus: Cosmetic Technology – I Theory (2 Credits)

| | | | |
|-------------------------|----------------------------------|------------------------------|-------|
| Mode of Teaching | Classroom Teaching | Vertical | Major |
| Type of Course | Theory 1 | Course Code | |
| Course Name | Cosmetic Technology – I (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I: Introduction to Cosmetic and Personal Care products

Definition of Cosmetic and Personal Care products, Classification (base on functions and marketed preparations), History of Cosmetics, Basic Cosmetic terminologies – Emollients, Emulsifiers, Humectants, Active Ingredients, Surfactants, preservatives, pH, Viscosity, Fragrance and Flavours

Unit II : Skin Care and Personal Care Products

Theory and Applications of : Skin Care Products – Cleansers (Soaps, Facial Cleanser, micellar water), Moisturizers (Creams, Lotions, Gels) For Skin Care Treatments (Serums, Masks, Exfoliants); Personal Care Products – Sun Care Products (Sunscreens, After Sun-Products), Anti-Aging Products (Creams, Serum, Eye treatment)

Unit III : Hair Care Products

Theory and Applications of : Cleansers (Shampoos), Conditioners (Rinse-off, Leave-in, deep conditioners), Styling Products (Gels, Mousses, Sprays), For Hair care treatments (Hair Masks, Oils, Serums) Color Treatments (Hair Dyes, Color Protectants)

Unit IV: Cosmetic Excipients

Theory and Applications in Cosmetic Industry of- **Oily Materials** - oils and fats, Wax, Hydrocarbons, higher fatty acids, Higher Alcohol, Esters, Silicones, **Surface active agents**- Surfactants; **Humectants** ; **Antioxidants**

References:

1. New cosmetic Science by Takeo Mitsui
2. Harry's Cosmetology
3. Cosmetic Science Technology BY Sagrin C.B.
4. Handbook of cosmetic Science & Technology by Marc Paye, Andro Barel
5. Textbook of Cosmetic Formulations" Author: B.M. Mithal, R.N. Saha
6. Cosmetic Science by Author: Dr. R. D. Chaudhary
7. Handbook of Cosmetic Science and Technology by Authors: H. S. R. Murthy

Syllabus: Cosmetic Technology – II P (2 Credits)

| | | | |
|-------------------------|------------------------------------|------------------------------|-------|
| Mode of Teaching | Lab Work (Practical) | Vertical | Major |
| Type of Course | Practical -1 | Course Code | |
| Course Name | Cosmetic Technology – II Practical | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

Practical on :

- 1) Preparation and Evaluation of Emulsions (both o/w and w/o)
- 2) Preparation and Evaluation of Suspensions
- 3) Preparation and evaluation of Sun Care Products
- 4) Preparation and Evaluation of Skin Care products
- 5) Preparation and Evaluation of Hair Care products
- 6) Qualitative and quantitative evaluation of Cosmetic Excipients

References:

1. New cosmetic Science by Takeo Mitsui
2. Harry's Cosmetology
3. Cosmetic Science Technology BY Sagrin C.B.
4. Handbook of cosmetic Science & Technology by Marc Paye, Andro Barel
5. Textbook of Cosmetic Formulations" Author: B.M. Mithal, R.N. Saha
6. Cosmetic Science by Author: Dr. R. D. Chaudhary
7. Handbook of Cosmetic Science and Technology by Authors: H. S. R. Murthy

Syllabus: Fundamentals of Human Anatomy and Physiology - I (Theory) (2 Credits)

| | | | |
|-------------------------|---|------------------------------|-------|
| Mode of Teaching | Classroom Teaching | Vertical | Minor |
| Type of Course | Theory 1 | Course Code | |
| Course Name | Fundamentals of Human Anatomy and Physiology - I (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Introduction to Human body

Definition and scope of anatomy and physiology, basic anatomical terminology, Tissue level of organization - Classification of tissues, structure, location and functions of epithelial, muscular, nervous and connective tissues.

Unit II : The Integumentary System (Skin, Hair, and Nails)

Structure and functions of the skin, Layers of the skin - epidermis, dermis, and hypodermis, Structure and functions of Skin appendages- hair, nails, and glands, Role of the skin in protection, sensation, and thermoregulation

Unit III : Skin Physiology and Biochemistry

Skin barrier function, Skin hydration and moisturizing mechanisms, Collagen and elastin - structure and function, Melanin production and skin pigmentation, structure & function of Sweat gland & sebaceous gland

Unit IV : Hair and Scalp Physiology

Hair growth cycle, Hair structure and function, Common hair conditions - dandruff, hair loss, and scalp disorders, Cosmetic treatments for hair and scalp.

References:

1. Medical physiology by Tortora & Grabowski
2. Anatomy & Physiology by Ross & Wilson
3. Grays Anatomy by Kimber & Gray
4. Concise Medical Physiology by Chaudhary

Syllabus: Fundamentals of Human Anatomy and Physiology - I (Practical) (2 Credits)

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|-------------------------|--|------------------------------|-------|
| Mode of Teaching | Lab Work (Practical) | Vertical | Minor |
| Type of Course | Practical – 2 | Course Code | |
| Course Name | Fundamentals of Human Anatomy and Physiology - I (Practical) | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

- 1) To Study the compound microscope in details.
- 2) To Study, Identify and differentiate between the different epithelial tissue (e.g., simple squamous, stratified squamous, cuboidal, columnar) by using permanent slide under a microscope
- 3) To study the different connective tissue by using permanent slide
- 4) To study the different muscular tissue by using permanent slide
- 5) To study the nervous tissue by using permanent slide
- 6) To study the structure of skin ,hair ,sweat gland ,sebaceous gland by using permanent slide
- 7) Observe and identify the different layers and structures within skin tissue samples, focusing on the epidermis, dermis, and hypodermis.

References:

1. Medical physiology by Tortora & Grabowski
2. Anatomy & Physiology by Ross & Wilson
3. Grays Anatomy by Kimber & Gray
4. Concise Medical Physiology by Chaudhary

Syllabus: Beauty Culture - I (Theory) (2 Credits)

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|-------------------------|----------------------------|------------------------------|-----------------------|
| Mode of Teaching | Classroom Teaching | Vertical | Generic/Open Elective |
| Type of Course | Theory 1 | Course Code | |
| Course Name | Beauty Culture –I (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I

Skin types, Recognition of skin types, choice of treatment suitable to skin condition and skin types. Skincare in summer & winter season different types of skin blemishes and their treatment

Unit II

Basic types of facial muscles of facial expression, steps during facial like cleaning, Toning, face massage, Steaming. Use of different face packs, Face pack ingredients, advantage of facial

Unit III

Setting masks, Peel off masks, Thermal type paraffin base mask, Non Setting mask, Hot oil mask

Unit IV

Eye care, eye brow, factors affecting eyebrow setting, determination of correct length of eyebrow, application of false eye lashes, methods, contraindications, different methods for eyebrow shaping – Threading, Tweezing Eye lashes & eye brows, tinting-method contraindication

Unit V

Treatment of superficial hair waxing - Hot wax treatment, cold wax treatment, Leg waxing, hand waxing, under arm waxing; Bleaching - Preparation of paste, Face bleaching, Hand bleaching, Leg bleaching, Precaution during bleaching

Reference

1. Malady's Cosmetics
2. Beauty & Skin care - Indu Puri
3. Guide for Health & Beauty Therapists - Gayner Winyard
4. Health & Beauty - Rama Bans
5. Cosmetics Makeup Manicure - Ann Raton & Furrence Openshaw

Syllabus: Herbal Cosmetics – I (2 Credits)

| | | | |
|-------------------------|-----------------------------|------------------------------|-----------------------|
| Mode of Teaching | Classroom Teaching | Vertical | Generic/Open Elective |
| Type of Course | Theory 2 | Course Code | |
| Course Name | Herbal Cosmetics – I | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Introduction to Herbal Cosmetics and Herbal Ingredients

Definition and scope of herbal cosmetics, History and evolution of herbal cosmetics, Benefits of using herbal cosmetics, Classification of herbal ingredients, Commonly used herbs in cosmetics: Aloe Vera, Neem, Turmeric, etc., Extraction and processing of herbal ingredients, Chemical properties and benefits of herbal ingredients

Unit II : Formulation of Herbal Cosmetics

Principles of formulation, Types of herbal cosmetic products: creams, lotions, shampoos, etc., Carriers and Bases in Cosmetic Formulations, Stability and preservation of herbal products

Unit III: Safety and Regulatory Aspects

Safety assessment of herbal ingredients, Good Manufacturing Practices (GMP), Regulatory frameworks for herbal cosmetics (FDA, EU regulations, etc.), Labelling and packaging requirements for Herbal Products

Unit IV : Quality Control and Assurance

Quality control tests for herbal cosmetics, Handling and storage of herbal products, Advanced analytical techniques for quality control

References:

- 1) Natural Excipients – Dr. R.S. Gaud
- 2) Text Book of Pharmacognosy- Trease & Evans
- 3) text book of Pharmacognosy by Gokhale & Kokate

Syllabus: Beauty Culture – I Practical (2 Credits)

| | | | |
|-------------------------|---------------------------|------------------------------|-----|
| Mode of Teaching | Lab Work (Practical) | Vertical | SEC |
| Type of Course | Practical -3 | Course Code | |
| Course Name | Beauty Culture – I | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

Practicals on

- 1) Eye brows : To study-
 - a) Factors affecting eye brow shaping
 - b) Determination of correct length of eye brow
- 2) To Study different method of eyebrow shaping
 - a) Threading b) Tweezing
- 3) To Study Treatment of superfacial hair waxing
 - a) Hot Waxing Treatment
 - b) Cold Waxing Treatment - i) Leg waxing ii) Hand Waxing
- 4) To Study Bleaching
 - a) Face bleaching b) Hand Bleaching c) Leg Bleaching
- 5) To Study Manicure
 - a) Nail Shaping b) Cuticle removing c) Hand Massage

Reference

1. Malady's Cosmetics
2. Beauty & Skin care - Indu Puri
3. Guide for Health & Beauty Therapists - Gayner Winyard
4. Health & Beauty - Rama Bans
5. Cosmetics Makeup Manicure - Ann Raton & Furrence Openshaw

Syllabus: English and Communication Skill I – Theory (2 Credits)

| | | | |
|-------------------------|---|------------------------------|------------------------|
| Mode of Teaching | Classroom Teaching | Vertical | AEC – English, AEC-MIL |
| Type of Course | Theory | Course Code | |
| Course Name | English and Communication Skill I – Theory | | |
| Credits | 01 + 01 = 02 | Workload (Hrs. /Week) | 01+01 = 2 |

Unit I

Communication Skill- Introduction, Definition, Importance, Barriers to communication, Perspectives in Communication, Elements of Communication, Communication Styles, Basic Listening Skills, Written Communication - Letter writing (Customer complaints, general complaints, seeking information, placing orders), Reading skills- Scanning & skimming, reading comprehension, summarising.

Unit II

Interview Skills: Purpose of an interview, Do's and Dont's of an interview, Giving Presentations - Dealing with Fears, Planning your Presentation, Structuring Your Presentation, Delivering Your Presentation, Techniques of Delivery

Unit III :

Communication skills - Language function (Greeting, Taking leave, Thanking, Apologing, Introducing Self) , Group Discussion - Introduction, Communication skills in group discussion, Do's and Dont's of group discussion

Unit IV:

Revisiting English Grammar; articles prepositions, adjectives, Word formation – Prefix and Suffix, Direct and Indirect Narration, Active and Passive Voice

References:-

1. Strength Your English, OUP by Bhaskaran & Horsbug
2. English for Practical Purpose by Macmillan, Patil, Walke, Thorat & Merchant.
3. Macmillan's Foundation English by Dwivedi & Kumar

Syllabus: History of Indian Cosmetic Industry – Theory (2 Credits)

| | | | |
|-------------------------|--|------------------------------|---------------|
| Mode of Teaching | Classroom Teaching | Vertical | IKS – Generic |
| Type of Course | Theory | Course Code | |
| Course Name | History of Indian Cosmetic Industry | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit 1: Introduction to the Indian Cosmetic Industry:

Overview of the cosmetic industry globally and in India, Significance of studying the history of cosmetics in India, Scope and objectives of the course.

Unit 2: Ancient Traditions and Texts:

The role of Ayurveda in traditional Indian cosmetics- Key texts: Charaka Samhita, Sushruta Samhita, and Ashtanga Hridaya. Ingredients and formulations: Herbs, minerals, and other natural substances. Influence of traditional practices on ancient beauty rituals and skincare.

Unit3: Historical Evolution of Indian Cosmetics:

The medieval period - Influence of Mughal and Persian cultures - Use of kajal, henna, and essential oils, Documentation of cosmetic practices by scholars and travelers.

The colonial period: Impact of Western influence and the evolution of the industry, Contributions of Indian entrepreneurs and innovators in the 19th and early 20th centuries.

Unit4: Revival and Modern Developments:

The post-independence era - Re-establishing traditional practices, Role of government policies and initiatives in promoting traditional cosmetics, Growth of indigenous brands and the incorporation of traditional knowledge, Modern research and development in the context of Indian herbal cosmetics.

Recommended Textbooks and References:

1. "Charaka Samhita" - Translation and commentary by Dr. S. S. Bhasin.
2. "Sushruta Samhita" - Text and translation by Dr. R. K. Sharma.
3. "Indian Cosmetics and Perfumes" by Dr. S. K. Sharma.
4. "The Ayurveda Encyclopedia" by Dr. Vasant Lad.
5. Articles and research papers on the history and development of the Indian cosmetic industry.

Syllabus: Value Education - I (2 Credits)

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|-------------------------|----------------------------|------------------------------|-----|
| Mode of Teaching | Classroom Teaching | Vertical | VEC |
| Type of Course | Theory | Course Code | |
| Course Name | Value Education - I | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Value Education & Spirituality

Definition, Concept and Classification of values, The need for value education in India, Developing Spirituality, Challenges of Value Adoption

Unit II : Personal Development & Values In Life

The principles of integrity, Character Development, A childlike approach to Life, Values in everyday life, Values, Virtues, Powers & Qualities

Unit III : Meditation & Values In Society

Meditation, Positive thinking & Emotional Maturity, Consciousness & the Divine

Unit IV : Values For Excellence In Life

In response to Living Values, Value adoption for Self-development, Value adoption in Family life, Value adoption in professional life

References:

1. Value education By N.N.Gupta

Syllabus: Beauty Culture Field Project (2 Credits)

| | | | |
|-------------------------|------------------------------|------------------------------|----|
| Mode of Teaching | Outdoor/Field | Vertical | CC |
| Type of Course | Outdoor | Course Code | |
| Course Name | Beauty Culture Field Project | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

All the students shall undertake a project under the supervision of a teacher and submit a report.

The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not more than 25 pages).

SEMESTER II

Sant Gadge Baba Amravati University, Amravati

Faculty of Science and Technology

Teaching and Learning Scheme for the degree of B Tech (Cosmetic)

(Three Year Six Semester Bachelor's Degree Programme)

FIRST YEAR: SEMESTER - II

| Mode of Teaching | Verticle No. | The Verticle | Type of Course | Course Code | Course Name | Credits | Work load (Hrs./week) | Verticle workload (Hrs. / Week) |
|---|--------------|------------------------|-------------------|-------------|------------------------------------|-----------|-----------------------|---------------------------------|
| Classroom Teaching/ Lab Work (Practical)/ Outdoor/Field | a | Major / Minor | Theory 1 | | Cosmetic Technology – II | 02 | 02 | 6 |
| | | | Lab/Practical-1 | | Cosmetic Technology – II Practical | 02 | 04 | |
| | b | Minor/ Major | Theory 1 | | Fundamentals of HAP-II | 02 | 02 | 6 |
| | | | Lab/Practical - 2 | | Fundamentals of HAP-II Practical | 02 | 04 | |
| | c | Generic/ Open Elective | Theory-I | | Beauty Culture - II | 02 | 02 | 04 |
| | | | Theory-II | | Fundamentals of Cosmetic Chemistry | 02 | 02 | |
| | d | VSC | Lab/Practical - 6 | | Computer Skill | 02 | 04 | 08 |
| | | SEC | Lab/Practical – 7 | | Beauty Culture - II | 02 | 04 | |
| | e | AEC-English | Theory | | English and Communication Skill | 01 | 01 | 04 |
| | | AEC-MIL | Theory | | English and Communication Skill | 01 | 01 | |
| | | VEC | Theory | | Computer Skill | 02 | 02 | |
| | f | CC | Field work | | Outdoor Project | 02 | 04 | 04 |
| | | Total | | | | 22 | 32 | 32 |

Syllabus: Cosmetic Technology – II Theory (2 Credits)

| | | | |
|-------------------------|-----------------------------------|------------------------------|-------|
| Mode of Teaching | Classroom Teaching | Vertical | Major |
| Type of Course | Theory 2 | Course Code | |
| Course Name | Cosmetic Technology – II (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Biphasic Liquid formulations - Emulsion & Suspension

Emulsion – types, Identification test of Emulsion preparation & stability, suspension-Flocculated and deflocculated suspensions, selection of wetting suspending and dispersing agents. Preparation and stability of biphasic liquid formulations.

Unit II: Color Cosmetics and Personal Care Products

Theory and Applications of – **Color Cosmetics** – Face (Foundations, Powders, Blushes), Eyes (Eye Shadows, Eyeliners, Mascaras), Lips (Lipsticks, Glosses, Liners), Nails (Nail Polishes, Treatments, Removers). **Personal Care Products** – Oral Care (Toothpaste, Mouthwashes), Bath and Shower (Soaps, Body Washes, Bath oils) Deodorants and Anti-perspirants (Roll-ons, Sprays, Sticks) Hand and Foot Care (Creams, Scrubs, Treatments)

Unit III: Cosmetics Containers

Introduction, Ideal Characteristic for Cosmetic Containers, Types of Cosmetic Containers – (Narrow Mouth bottles, Wide Mouth Bottles, Tubes, Tubular, Powder Containers, Compact containers, Stick containers, pencil containers Applicator containers.)

Unit IV – Regulatory Framework and Safety of Cosmetic Products

Regulatory Bodies, Safety Assessments (Safety Testing and Regulations) Importance of safety in cosmetics, Restricted and prohibited substances in cosmetics, Safety considerations for different types of cosmetics (e.g., skincare, hair care, makeup, fragrances).

References:

1. Harry's Cosmetology
2. Mittal Test Book of Pharma Formulation B.I.E.T. Pilani.
3. The Pharmacopoeia of India
4. Remington's Pharmaceutical Practices.
5. Cooper & Gunn Dispensing for Pharmaceutical Students.

Syllabus: Cosmetic Technology – II Practical (2 Credits)

| | | | |
|-------------------------|--------------------------------------|------------------------------|-------|
| Mode of Teaching | Lab Work (Practical) | Vertical | Major |
| Type of Course | Practical – 4 | Course Code | |
| Course Name | Cosmetic Technology – II (Practical) | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

Practical on:

- 1) Preparation and Evaluation of Emulsions (both o/w and w/o)
- 2) Preparation and Evaluation of Suspensions
- 3) Preparation and evaluation of Ointment bases –
 - a. Hydrocarbon
 - b. Absorption
 - c. Water soluble
 - d. Water miscible
- 4) Preparation and Evaluation of cosmetics like cleansing cream, Lotion cold cream, vanishing creams at least two examples from each category.
- 5) Preparation of simple stick bases.
- 6) Preparation of paste & Jelly bases

References:

1. Mittal Test Book of Pharma Formulation B.I.E.T. Pilani.
- 2) The Pharmacopoeia of India
- 3) Remington's Pharmaceutical Practices.
- 4) Cooper & Gunn Dispensing for Pharmaceutical Students.
- 5) HUSA: Pharmaceutical Dispensing Mack Publishing co

Syllabus: Fundamentals of Human Anatomy and Physiology - II (Theory) (2 Credits)

| | | | |
|-------------------------|--|------------------------------|-------|
| Mode of Teaching | Classroom Teaching | Vertical | Minor |
| Type of Course | Theory 2 | Course Code | |
| Course Name | Fundamentals of Human Anatomy and Physiology - II (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Cosmetic Dermatology

Different skin types, Common skin conditions (acne, eczema, psoriasis), Impact of UV radiation on the skin, Principles of cosmetic dermatology, Interaction between cosmetics and skin, Role of vitamins, antioxidants, and peptides in Dermatological preparations.

Unit II : Sensory Systems

Anatomy and physiology of sensory organs – (eyes, nose, and skin.), Sensory perception in the skin, Role of the olfactory system in cosmetics, Texture, scent, and visual appeal in product development,

Unit III : Essentials of Skin Management

Wound Healing and Scar Management (Stages of wound healing, role of growth factors, and scar prevention and treatment), Impact of Environmental Factors on Skin, Nutritional Influence on Skin Health (vitamins, minerals, and antioxidants)

Unit IV : Toxicology and Safety in Cosmetics

Introduction to toxicology, Assessing the safety of cosmetic ingredients, Regulatory aspects of cosmetic safety, Patch testing and clinical trials

References:

1. Medical physiology by Tortora & Grabowski
2. Anatomy & Physiology by Ross & Wilson
3. Grays Anatomy by Kimber & Gray
4. Concise Medical Physiology by Chaudhary

Syllabus: Fundamentals of Human Anatomy and Physiology - II (Practical) (2 Credits)

| | | | |
|-------------------------|---|------------------------------|-------|
| Mode of Teaching | Lab Work (Practical) | Vertical | Minor |
| Type of Course | Practical – 5 | Course Code | |
| Course Name | Fundamentals of Human Anatomy and Physiology - II (Practical) | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

Practicals based on -

- 1) Examine and Report Hair Samples under microscope
- 2) Conduct sensory evaluation of cosmetic products
- 3) Examine and Report Nail Clippings under microscope to identify different layers and any abnormalities.
- 4) Learn and apply different staining techniques to enhance the visualization of tissue structures.
- 5) To demonstrate & setup neubar slide under the microscope.
- 6) To study the structure (model) of eye, ear, tongue, skin

References:

1. Principles of Anatomy and Physiology" by Gerard J. Tortora and Bryan H. Derrickson
2. Textbook of Human Physiology" by A.K. Jain
3. Handbook of Cosmetic Science and Technology" by B. S. Madhuri

Syllabus: Beauty Culture - II (Theory) (2 Credits)

| | | | |
|-------------------------|-----------------------------|------------------------------|-----------------------|
| Mode of Teaching | Classroom Teaching | Vertical | Generic/Open Elective |
| Type of Course | Theory 3 | Course Code | |
| Course Name | Beauty Culture –II (Theory) | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Pedicure and Medicure

Pedicure - Requirement of pedicure, Pedicure methodology, Massage for pedicure, Applications of False Nails

Electric manicure : Requirement of manicure, Nail shapeing, Cuticle removing, hand massage, Application of Varnish, Application of false nails

Unit II : Beauty Treatments

Treatment for crack hands, dry hands, tanned hands, Freckles on hand, Allergies, Rough elbow, Cracked Nails, General problems of hair, Treatment of hair – (Heenadye, Heena conditioning, Black dye, Hair styles, & hair setting, diet & exercise)

Unit III : Makeup

Pre make up skin care, Make up technique, Complexion planning, Use of cosmetics during Makeup (Cleanser, Toner, Astringent, Moisturiser, Foundation, Powder, Blusher, Lipsticks) Eye Make-up – (Use of Eye Shadow, Eye Liners, Mascara, Eye brow grooming), Day make up, Evening makeup, party make up, Bridal make up, corrective make up, Precaution during & after make up

Unit IV

Beautician & Aptitude to Client & Professional Ethics, Set up of beauty parlour for Clients Comfort

Reference

1. Malady's Cosmetics
2. Beauty & Skin care - Indu Puri
3. Guide for Health & Beauty Therapists - Gayner Winyard
4. Health & Beauty - Rama Bans
5. Cosmetics Makeup Manicure - Ann Raton & Furrence Openshaw

Syllabus: Fundamentals of Cosmetic Chemistry (2 Credits)

| | | | |
|-------------------------|---|------------------------------|-----------------------|
| Mode of Teaching | Classroom Teaching | Vertical | Generic/Open Elective |
| Type of Course | Theory 4 | Course Code | |
| Course Name | Fundamentals of Cosmetic Chemistry | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Fundamental Chemistry Concepts

Chemical bonding and molecular structure, Types of chemical reactions, Acid-base theory, concept of pH, Buffer solutions, Solutions and solubility.

Unit II : Impurities in Cosmetic Preparations

Sources of Impurities in cosmetic raw materials, Limit Test, Limit test of Chlorides, Sulphates, Lead, Arsenic and Heavy Metals.

Unit III : Basics of Chemical Analysis

Definition and scope of Different techniques of Analysis, Methods of expressing concentration, Primary and Secondary Standards, Preparation and Standardization of various molar and normal solutions- Oxalic acid, Sodium Hydroxide, Hydrochloric acid, Errors - Types of errors, methods of minimizing errors, Accuracy and Precision.

Unit IV : Qualitative and Quantitative Analysis

Introduction to Qualitative and Quantitative Analysis, Instrumental and Non Instrumental Methods of Analysis, Titrimetric Methods for analysis – Aqueous Titration and Non-Aqueous Titrations

References:

1. A.H. Beckett & J.B. Stenlake's, Practical Pharmaceutical Chemistry Vol I & II, Stahlone Press of University of London
2. A.I. Vogel, Text Book of Quantitative Inorganic analysis
3. John H. Kennedy, Analytical chemistry principles
4. Indian Pharmacopoeia.

Syllabus: Computer Skill – (Lab/Practical) (2 Credits)

| | | | |
|-------------------------|-----------------------|------------------------------|-----|
| Mode of Teaching | Lab Work (Practical) | Vertical | VSC |
| Type of Course | Practical – 6 | Course Code | |
| Course Name | Computer Skill | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

References:

Syllabus: Beauty Culture – II (Practical) (2 Credits)

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|-------------------------|--|------------------------------|-----|
| Mode of Teaching | Lab Work (Practical) | Vertical | SEC |
| Type of Course | Practical – 7 | Course Code | |
| Course Name | Beauty Culture – II (Practical) | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

Practicals on

- 1) Pedicure Massage
- 2) Facial Massage
- 3) Facial Make-up
- 4) Hair Colouring
- 5) Hair Styling
- 6) Hair Setting (Formal and Informal)

Reference

1. Malady's Cosmetics
2. Beauty & Skin care - Indu Puri
3. Guide for Health & Beauty Therapists - Gayner Winyard
4. Health & Beauty - Rama Bans
5. Cosmetics Makeup Manicure - Ann Raton & Furrence Openshaw

Syllabus: English and Communication Skill II – Theory (2 Credits)

| | | | |
|-------------------------|--|------------------------------|------------------------|
| Mode of Teaching | Classroom Teaching | Vertical | AEC – English, AEC-MIL |
| Type of Course | Theory | Course Code | |
| Course Name | English and Communication Skill II – Theory | | |
| Credits | 01 + 01 = 02 | Workload (Hrs. /Week) | 01+01 = 2 |

- 1) Revisiting English Grammar: Model Auxiliaries, adverbs& adverbial Phases
- 2) Written communication: Job application, Resumes, Responding to advertisements.
- 3) Reading skills: Note making, Distinguishing facts from beliefs, Opinions.
- 4) Communication Skills: Language functions (asking for information, requesting, agreeing & disagreeing complimenting& responding to complaints

References:-

- 1 Bhaskaran&Horsbug,Strength Your English
- 2 Patil Walke Thorat & Marchant. English for Practical Purpose Macmillon
- 3 Dwivedi&Kumar Macmillon foundation English .Macmillon

Syllabus: Computer Skill - I – Theory (2 Credits)

| | | | |
|-------------------------|------------------------------------|------------------------------|-----|
| Mode of Teaching | Classroom Teaching | Vertical | VEC |
| Type of Course | Theory | Course Code | |
| Course Name | Computer Skill - I – Theory | | |
| Credits | 02 | Workload (Hrs. /Week) | 02 |

Unit I : Word Processing

Introduction, Starting word, creating document, structure of MS-word window & its application, mouse & keyboard operation, designing documents, formatting-selection cut copy Paste, toolbars, operating on text, printing saving, opening closing of document creating a template

Unit II - Power point presentation-

Working with power point window, standard toolbar, formatting toolbar, drawing toolbar, moving the frame, inserting clip art, picture slide, text styling, send to back, Entering data to graph, organization chart, table design template, master slide, animation setting, saving and presentation, auto content Wizard, package for CD

Unit III - MS-Excel

Navigating, excel toolbars, and operations, formatting features, copying data between worksheets,; entering & editing cell entries, creation of charts, editing & formatting charts, Mathematical, Statistical & Financial functions in MS –excel

Unit IV

MS-Access - Introduction to database mgmt. system , DBMS vs RDMMS, Data base Administrator(DBA) & it's role

References:-

- 1) Information Technology concept by Dr.Madhulika Jain
- 2) Fundamentals of Information technology by Alexis & Mathews Leon
- 3) Database system concepts by A.Silbers (McGraw hills ltd)
- 4) Introduction to data base management By Naveen Prakash
- 5) An Introduction to data base system By Bipin C Desai
- 6) Data base mgmt. system by Raghu ram Krishnan McGraw Hill

Syllabus: Outdoor Project (2 Credits)

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|-------------------------|------------------------|------------------------------|----|
| Mode of Teaching | Outdoor/Field | Vertical | CC |
| Type of Course | Outdoor | Course Code | |
| Course Name | Outdoor Project | | |
| Credits | 02 | Workload (Hrs. /Week) | 04 |

All the students shall undertake a project under the supervision of a teacher and submit a report. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not more than 25 pages).