



MALLA REDDY VISHWAVIDYAPEETH

(Deemed to be University)

Suraram X Roads, Jeedimetla, Hyderabad 500055

**School of Public Health, Emerging Healthcare & Technology
(SPHEHT)**

COURSE STRUCTURE & SYLLABUS DOCUMENT

B.Sc. Cosmetic and Aesthetic Skin Care Technology

Year 2026–30 Batch

Semester-wise Curriculum Structure (Scheme of Instruction)

L denotes lecture hours per week, T denotes tutorial hours per week, and P denote practical hours per week. All practicals are supervised or simulation-based unless otherwise stated.

Total Programme Credits: 205 across eight semesters, with credits per semester, in line with the UGC Curriculum and Credit Framework for a four-year undergraduate degree.

Year I —

Semester I

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Human Anatomy	6	0	0	6
2	Major		Human Physiology	5	0	0	5
3	Major		Biochemistry for Skin, Hair and Nail Sciences	4	0	0	4
4	Major		Human Anatomy (Practical)	0	0	2	1
5	Major		Human Physiology (Practical)	0	0	2	1
6	AEC		Digital Literacy and Computer Applications	3	0	0	3
7	AEC		Digital Literacy and Computer Applications (Practical)	0	0	2	1
8	SEC		AI in Healthcare: Foundation	1	0	0	1
			Total	19	0	6	22
			Total Contact Hours	25			22

Semester II —

Sr.No	Category	Code	Course	L	T	P	Credits
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1	Major		Skin, Hair and Nail Structure and Function	3	0	0	3
2	Major		Microbiology, Hygiene and Infection Control	3	0	0	3
3	Major		Cosmetic Chemistry Fundamentals	3	0	0	3
4	Major		Cosmetic Ingredients and Product Science — I	3	0	0	3
5	SEC		Cosmetic Product Safety and Regulatory Framework	2	0	0	2
6	AEC		Microbiology, Hygiene and Infection Control (Practical)	0	0	4	2
			Total	14	0	0	16
			Total Contact Hours	14			16

Year II —

Semester III

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Skin Physiology and Cosmetic Skin Care Science	3	0	0	3
2	Major		Hair and Scalp Science and Cosmetic Hair Care Technology	4	0	0	4
3	Major		Cosmetic Formulation and Product Science II	4	0	0	4
5	SEC		Nutrition and Wellness for Skin and Hair	2	0	0	2
6	CP		Clinical Postings-I	0	0	16	8
7	VAC		Artificial Intelligence in Healthcare	1	0	0	1
			Total	14	0	14	22

			Total Contact Hours	28	22
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Semester IV —

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Common Skin and Hair Presentations: Recognition and Referral	4	0	0	4
2	Major		Client Assessment and Cosmetic Consultation Assistance	4	0	0	4
3	Major		Advanced Facial and Scalp Care Techniques-Assistive Role	4	0	0	4
4	Major		Superficial Cosmetic Peels and Resurfacing: Assistive Support	4	0	0	4
5	AEC		Client Communication, Documentation and Professional Ethics	4	0	0	4
6	CP		Clinical Postings-II	0	0	5	5
			Total	20	0	5	25
			Total Contact Hours	25			25

Note on Semester IV: “Common Skin and Hair Presentations: Recognition and Referral” develops awareness of common presentations, contraindications and red-flag signs only, so that the technician can promptly alert and refer to the supervising Registered Medical Practitioner. It does not include diagnosis, prescription or treatment.

Year III —

Semester V

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Aesthetic Equipment Technology — I (Assistive Role)	4	0	0	4

2	Major		Light-Based and Laser Technology: Principles and Safety	4	0	0	4
3	Major		Energy-Based and Electrical Aesthetic Devices (Assistive Role)	4	0	0	4
4	Major		Infection Control and Procedure-Room Management in Aesthetic Practice	4	0	0	4
5	Major		Non-Invasive Skin Tightening and Body Contouring Technologies (Assistive Role)	4	0	0	4
6	CP		Clinical Postings-III	0	0	5	5
			Total	20	0	5	25
			Total Contact Hours	25			25

Semester VI —

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Aesthetic Equipment Technology — II (Advanced Assistive)	4	0	0	4
2	Major		Advanced Aesthetic Procedure Assistance and Integrated Protocols	4	0	0	4
3	Major		Assistance in Minor Aesthetic Procedures: Preparation, Support and Aftercare	4	0	0	4
4	Major		Hair and Scalp Aesthetic Procedure Assistance	4	0	0	4
5	Major		Research Methodology and Biostatistics	2	2	0	4
6	CP		Clinical Postings-IV	0	0	5	5
			Total	18	2	5	25
			Total Contact Hours	25			25

Note on Semester VI: All light-based, laser, energy-based and injectable-adjacent content is confined to principles, classification, safety, room and client preparation, instrument and

consumable readiness, maintenance, calibration, documentation and simulation-based practice. Any client-facing activity is performed strictly as an assistant, in the physical presence of and under the direct instruction of the supervising Registered Medical Practitioner.

Year IV —

Semester VII

Sr.No	Category	Code	Course	L	T	P	Credits
1	Major		Aesthetic Equipment Safety, Maintenance and Quality Assurance	4	0	0	4
2	Major		Ethics, Law and Scope of Practice for Aesthetic Technicians	4	0	0	4
3	INT		Clinical Internship I	2	0	20	22
4	RP		Project Work	0	0	06	06
			TOTAL	10	0	26	36
			Total Contact Hours	36			36

Semester VIII —

Sr. No	Category	Code	Course	L	T	P	Credits
1	INT		Clinical Internship II	2	20	0	22
2	RP		Project Work	0	06	0	06
3			TOTAL	2	26	0	28
			Total Contact Hours	28			28

Note on Semester VII and VIII: The internship is a Comprehensive Supervised Aesthetic Assistance Internship performed under the continuous, direct supervision of a Registered Medical Practitioner. It does not involve independent client care, diagnosis, prescription, treatment, or independent performance of any cosmetic or aesthetic procedure.

SEMESTER I

1. Human Anatomy

- Objectives: To build foundational knowledge of the structure and organisation of the human body, with emphasis on the systems relevant to cosmetic and aesthetic care assistance.
- Outcomes: Students will be able to identify anatomical structures, apply anatomical terminology in client positioning, and recognize major organ systems relevant to aesthetic practices.
- Graduate Attributes Addressed: GA1 (Disciplinary & Interdisciplinary Knowledge), GA2 (Critical Thinking & Problem Solving).
- Units:
 - Unit I: Introduction to the Human Body — Levels of organisation; anatomical terminology, planes and positions; introduction to the organ systems.
 - Unit II: Cells and Tissues — Structure of the human cell; epithelial, connective, muscular and nervous tissue; membranes and glands.
 - Unit III: Integumentary and Musculoskeletal Systems — Structure of skin, hair, nails and cutaneous glands; muscles of facial expression and mastication; bones of the skull, face and mandible relevant to aesthetic technique positioning.
 - Unit IV: Circulatory and Nervous Systems (Applied Overview) — Arterial and venous supply of the face and scalp; lymphatic drainage of the head and neck; trigeminal and facial nerve territories; anatomical danger zones relevant to aesthetic procedures.

- Recommended Readings: Standard textbooks of Human Anatomy for allied health sciences.

2. Human Physiology

- Objectives: To provide a working understanding of normal body function, particularly of the systems that influence skin and hair condition and client safety during cosmetic and aesthetic procedures.
- Outcomes: Students will understand normal body homeostasis, vital sign monitoring parameters, and physiological responses associated with client comfort and safety.
- Graduate Attributes Addressed: GA1 (Disciplinary & Interdisciplinary Knowledge), GA2 (Critical Thinking & Problem Solving).
- Units:
 - Unit I: Cell Physiology and Homeostasis — Membrane transport; body fluid compartments; homeostatic control; blood composition, coagulation and basic immunity.
 - Unit II: Circulatory and Respiratory Physiology — Cardiac cycle; blood pressure regulation; pulse and respiration; relevance to client comfort, positioning and safety monitoring during procedures.
 - Unit III: Nervous and Sensory Physiology — Neurons and nerve conduction; sensory receptors of the skin; pain physiology and its relevance to procedural comfort; overview of the autonomic nervous system and vasomotor responses.
 - Unit IV: Endocrine Influences and Skin Function — Hormonal influences on skin and hair across puberty, pregnancy, menstrual cycle and ageing (awareness level); thermoregulation, sweat and sebum production; wound healing and its relevance to post-procedure care.
- Recommended Readings: Standard textbooks of Human Physiology for allied healthcare programmes.

3. Biochemistry for Skin, Hair and Nail Sciences

- Objectives: To introduce the biochemical concepts that underlie skin, hair and nail composition and their interaction with cosmetic products and aesthetic procedures.
- Outcomes: Students will comprehend biomolecules, skin barrier lipids, keratin structure, enzyme functions, and surface pH balances.

- Graduate Attributes Addressed: GA1 (Disciplinary & Interdisciplinary Knowledge), GA3 (Digital & Technological Literacy).
- Units:
 - Unit I: Biomolecules — Carbohydrates, proteins, lipids, vitamins and water balance relevant to skin and hair structure; nutritional influences and cutaneous manifestations of deficiency (awareness level).
 - Unit II: Skin Biochemistry — Keratinisation; collagen and elastin; melanin synthesis and pigmentation pathways (overview); composition of the lipid barrier of the epidermis.
 - Unit III: Hair and Nail Biochemistry — Hair keratin structure and disulphide bonding; biochemistry of the hair growth cycle (overview); nail plate composition and growth.
 - Unit IV: Enzymes, pH and Buffers — Enzyme fundamentals; skin surface pH and the acid mantle; buffer systems and their significance in cosmetic formulation and peel preparations.
- Recommended Readings: Biochemistry reference manuals for skin and hair sciences.

4. Human Anatomy Practical

- Objectives: To develop practical knowledge of human anatomy through the identification of cells, tissues, organ systems, skin structures, facial muscles, bones, nerves and blood vessels. To apply anatomical knowledge in surface mapping, client positioning, draping and safe aesthetic skin-care practices.
- Outcomes: Students will practically identify anatomical features and apply surface mapping for client positioning.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Introduction to the Human Body — Identification of anatomical positions, planes, directional terms and body regions; demonstration of levels of organisation and major organ systems using anatomical charts and models; application of anatomical terminology in client positioning.
 - Unit II: Cells and Tissues — Identification of human cell structures and organelles; demonstration of epithelial, connective, muscular and nervous

tissues using charts, models and prepared slides; identification of body membranes and glands with emphasis on skin-related structures.

- Unit III: Integumentary and Musculoskeletal Systems — Identification of the layers of skin, hair follicles, nails, sebaceous and sweat glands; demonstration of the muscles of facial expression and mastication; identification of the bones of the skull, face and mandible; surface identification of relevant anatomical landmarks for client positioning and non-invasive aesthetic techniques.
- Unit IV: Circulatory and Nervous Systems (Applied Overview) — Identification and mapping of the major arteries and veins of the face and scalp; demonstration of lymphatic drainage pathways and major lymph-node groups of the head and neck; mapping of trigeminal and facial nerve territories; identification of anatomical danger zones and their significance in aesthetic safety.
- Recommended Readings: Practical manuals in human anatomy.

5. Human Physiology Practical

- Objectives: This practical course covers basic human physiology, vital signs, nervous system functions, skin structure, hormonal influences, and wound healing, with emphasis on their application in cosmetic and aesthetic skin care.
- Outcomes: Students will measure and interpret basic physiological and vital parameters relevant to client safety.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Cell Physiology and Homeostasis — Identification of cell structures using charts and models; demonstration of diffusion and osmosis; study of blood components and their functions; understanding of body fluid balance and homeostasis.
 - Unit II: Circulatory and Respiratory Physiology — Identification of the heart and major blood vessels; measurement of pulse rate, blood pressure and respiratory rate; recording and interpretation of basic physiological parameters.
 - Unit III: Nervous and Sensory Physiology — Identification of neuron structure using charts and models; study of sensory receptors of the skin; demonstration

of basic sensory responses; study of pain perception and the functions of the autonomic nervous system.

- Unit IV: Endocrine Influences and Skin Function — Identification of skin layers, hair follicles, sweat glands and sebaceous glands; study of hormonal changes affecting skin and hair; understanding of thermoregulation, sweating, sebum production and stages of wound healing.
- Recommended Readings: Practical physiology guides for healthcare programmes.

6. Digital Literacy and Computer Applications

- Objectives: To build the basic computer and digital-tool competence needed for documentation, communication and continuing learning.
- Outcomes: Students will operate office software, manage files securely, utilize digital record systems, and capture standard clinical photographs.
- Graduate Attributes Addressed: GA3 (Digital & Technological Literacy).
- Units:
 - Unit I: Computer Fundamentals — Operating systems, file management, hardware and software basics; safe computing practices.
 - Unit II: Office Applications — Word processing, spreadsheets and presentation software for records, inventory and reporting.
 - Unit III: Internet and Digital Communication — Professional email, credible online information sources, and navigation of the Learning Management System.
 - Unit IV: Digital Record-Keeping — Client-record and appointment software basics; standardized clinical photography for cosmetic documentation; consent for image use.
- Recommended Readings: Basic computer literacy and digital documentation guides.

7. Digital Literacy and Computer Applications (Practical)

- Objectives: To apply computer skills hands-on for record management, digital logs, and photography.
- Outcomes: Students will create and maintain simulated client records and digital imaging libraries.
- Graduate Attributes Addressed: GA3.

- Units:
 - Unit V: Practical — Creating and maintaining a simulated client record; capturing and filing standardized before-and-after images; applying data-privacy and confidentiality safeguards.
- Recommended Readings: Digital records management references.

8. AI in Healthcare: Foundation

- Objectives: Explain fundamental AI concepts, machine learning principles, and health data types without complex mathematics. Identify healthcare use cases, evaluate metrics, apply governance principles, and demonstrate no-code platform competencies.
- Outcomes: Students will explain core AI concepts, identify clinical use cases, evaluate performance metrics, apply ethical frameworks, and use no-code AI tools.
- Graduate Attributes Addressed: GA1, GA2, GA3, GA5, GA7, GA9, GA10.
- Units:
 - Unit I: Introduction to AI and Health Data — Definitions, ML vs. DL, health data taxonomy (EHR, imaging, genomics), data quality.
 - Unit II: AI Applications Across Healthcare Domains — Medical imaging, CDSS, NLP, generative AI, drug discovery, and hospital operations.
 - Unit III: Evaluating AI Performance, Bias, and Validation — Accuracy, sensitivity, specificity, overfitting, clinical validation, and algorithmic bias.
 - Unit IV: Ethics, Law, and Healthcare AI Governance — Privacy, HIPAA, GDPR, India's DPDP Act, fairness, accountability, and human-in-the-loop.
 - Unit V: Responsible Practice and Capstone Project — Prompt engineering, hallucinations, future trajectories, and capstone presentation.
- Recommended Readings:
 - Topol, E. (2019). *Deep Medicine*. Basic Books.
 - World Health Organization. (2021). *Ethics and governance of artificial intelligence for health*.
 - Government of India. (2023). *Digital Personal Data Protection Act (DPDP Act)*.

SEMESTER II

1. Skin, Hair and Nail Structure and Function

- Objectives: To develop detailed knowledge of the structure and function of skin, hair and nails as the scientific basis for supervised cosmetic and aesthetic care.
- Outcomes: Students will understand cutaneous microanatomy, hair cycles, nail growth, and skin ageing factors.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Skin Layers and Appendages — Microscopic structure of epidermis, dermis and hypodermis; eccrine, apocrine and sebaceous glands; the functions of skin.
 - Unit II: Hair Structure and Growth — Follicle anatomy; the anagen–catagen–telogen cycle; hair types and distribution; relevance to hair-removal and hair-care procedures.
 - Unit III: Nail Structure and Growth — Nail plate, matrix, bed and folds; growth pattern; common non-pathological variations (awareness level).
 - Unit IV: Ageing and Environmental Influence — Intrinsic and extrinsic ageing; photo ageing; pollution, smoking and lifestyle effects on skin and hair.
 - Unit V: Practical — Structured non-diagnostic skin, hair and scalp assessment on models; use of magnification and imaging aids; complete documentation of findings.
- Recommended Readings: Introductory dermatology and microanatomy reference texts.

2. Microbiology, Hygiene and Infection Control

- Objectives: To develop competence in the microbiology principles and infection-control practices essential for safe assistance in an aesthetic setting.
- Outcomes: Students will identify microbial paths, master sterilization, and execute clinical hygiene protocols.
- Graduate Attributes Addressed: GA1, GA7.
- Units:
 - Unit I: Basic Microbiology — Bacteria, viruses, fungi and parasites relevant to skin and scalp; the normal skin flora and biofilms (overview).

- Unit II: Infection Transmission — Routes of transmission; cross-contamination risk in consultation and procedure rooms; risks specific to shared instruments and devices.
- Unit III: Sterilization and Disinfection — Physical and chemical methods; autoclaving; high-level disinfection of aesthetic instruments; surface and equipment hygiene protocols; validation and record-keeping.
- Unit IV: Personal Protective Equipment and Waste Management — Hand hygiene; correct PPE selection and use; sharps handling; biomedical waste segregation, storage and disposal as per applicable rules.
- Recommended Readings: Clinical microbiology and facility infection control guidelines.

3. Cosmetic Chemistry Fundamentals

- Objectives: To build the chemistry fundamentals required to understand the composition, behaviour and safe handling of cosmetic products used in aesthetic practice.
- Outcomes: Students will apply concentration formulas, understand emulsion surfactant parameters, and control pH values.
- Graduate Attributes Addressed: GA1, GA3.
- Units:
 - Unit I: Basic Chemical Concepts — Atoms, molecules, solutions; concentration units, dilution and percentage calculations used in cosmetic preparations.
 - Unit II: Organic Chemistry for Cosmetics — Functional groups of cosmetic relevance: alcohols, acids, esters, surfactants; introduction to hydroxy acids and retinoid (chemistry level).
 - Unit III: Emulsions and Surfactants — Emulsion types; surfactant classification; the HLB concept; solubilisers and thickeners.
 - Unit IV: pH, Stability and Preservation — pH measurement and adjustment; the significance of pH in peel and cleanser chemistry; product stability factors; preservative systems and antioxidants.
- Recommended Readings: Basic cosmetic chemistry and formulation references.

4. Cosmetic Ingredients and Product Science — I

- Objectives: To introduce the major cosmetic ingredient categories and the basic formulation principles behind products used in aesthetic practice.
- Outcomes: Students will classify ingredients, interpret product labels, and comprehend sun-protection factors.
- Graduate Attributes Addressed: GA1, GA9.
- Units:
 - Unit I: Ingredient Categories — Cleansers, humectants, emollients, occlusive's, and common cosmetic actives (overview); vehicles and bases.
 - Unit II: Hair and Scalp Product Ingredients — Shampoo and conditioner bases; conditioning and anti-frizz agents; scalp-care ingredients.
 - Unit III: Basic Formulation Principles — Formulation steps, phase preparation, mixing order, batch documentation and reproducibility.
 - Unit IV: Labeling and Cosmetic Claims — Ingredient nomenclature and labeling conventions; permitted versus impermissible claims; reading and interpreting a product label.
- Recommended Readings: Cosmetic ingredients dictionaries and safety guides.

5. Cosmetic Product Safety and Regulatory Framework

- Objectives: To familiarize students with cosmetic product-safety principles and the regulatory framework governing cosmetic products and aesthetic services in India.
- Outcomes: Students will execute patch tests, track cosmetovigilance, and manage safety and batch documentation.
- Graduate Attributes Addressed: GA7, GA2.
- Units:
 - Unit I: Product Safety Principles — Irritancy and sensitization; the patch-test concept and its assistive execution; photosensitivity; safety of leave-on versus rinse-off products.
 - Unit II: Regulatory Bodies and Standards — The Drugs and Cosmetics framework and the Cosmetics Rules; the Central Drugs Standard Control Organisation; Bureau of Indian Standards specifications; the cosmetic–drug distinction.

- Unit III: Adverse Event Recognition and Reporting — Recognizing and documenting adverse cosmetic reactions; escalation and referral to the supervising Registered Medical Practitioner; cosmetovigilance basics.
- Unit IV: Quality and Safety Documentation — Batch records, certificates of analysis, safety data sheets, storage and expiry control, and stock rotation.
- Recommended Readings: Statutory regulatory frameworks, Drugs & Cosmetics Rules, and Bureau of Indian Standards manuals.

6. Microbiology, Hygiene and Infection Control (Practical)

- Objectives: To develop practical competence in basic microbiological procedures, infection prevention, hand hygiene, personal protective equipment (PPE), instrument decontamination, sterilization monitoring, and biomedical waste management.
- Outcomes: Students will independently perform sterilisation checks, PPE donning, and waste audits.
- Graduate Attributes Addressed: GA1, GA7.
- Units:
 - Unit I: Basic Microbiology — Identification of bacteria, viruses, fungi and parasites relevant to skin and scalp using prepared slides and educational images; normal skin flora and biofilms.
 - Unit II: Infection Transmission — Demonstration of routes of infection transmission; identification of cross-contamination risks in consultation and procedure rooms; safe handling of shared instruments and devices.
 - Unit III: Sterilization and Disinfection — Demonstration of cleaning, disinfection and sterilization methods; autoclave operation and safety; interpretation of sterilization indicators; surface and equipment hygiene protocols; sterilization validation and record-keeping.
 - Unit IV: Personal Protective Equipment and Waste Management — Demonstration of hand hygiene; selection, donning and removal of PPE; sharps safety; biomedical waste segregation, handling and disposal according to applicable Indian regulations.
 - Unit V: Integrated Infection-Control Practices — Conducting a simulated infection-control audit of an aesthetic procedure room; preparing cleaning and

disinfection checklists; maintaining sterilization logs; demonstrating biomedical waste segregation and documenting infection-control procedures.

- Recommended Readings: Practical infection control manuals.

SEMESTER III

1. Skin Physiology and Cosmetic Skin Care Science

- Objectives: To deepen understanding of skin physiology and apply it to the science of supervised cosmetic skin care.
- Outcomes: Students will assess skin types non-diagnostically, understand barrier function, and apply cleansing, exfoliation, and hydration protocols safely.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Skin Barrier Function — Barrier lipids; water loss through the skin barrier; hydration principles; barrier compromise and repair.
 - Unit II: Skin Typing and Cosmetic Assessment — Non-diagnostic assessment of oily, dry, combination and sensitive skin; phototype-based procedure selection support; use of assessment tools and imaging.
 - Unit III: Cleansing and Exfoliation Science — Principles of cleansing; mechanical and chemical exfoliation; indications, limitations and contraindications at an assistive level.
 - Unit IV: Hydration, Barrier Support and Photo protection — Moisturisation science; occlusion; post-procedure barrier support; sun-protection counseling support within the permitted role.
 - Unit V: Practical / OSCE — Identification of skin types; demonstration of cleansing, exfoliation, hydration and photo protection sequences on models with complete documentation.
- Recommended Readings: Advanced skin physiology and aesthetic skincare literature.

2. Hair and Scalp Science and Cosmetic Hair Care Technology

- Objectives: To build knowledge and supervised technique skill related to cosmetic hair and scalp care.

- Outcomes: Students will analyze scalp conditions, execute proper hair care routines, apply treatments with safety discipline, and document pre- and post-procedure states.
- Graduate Attributes Addressed: GA1, GA5.
- Units:
 - Unit I: Scalp Health Fundamentals — Scalp structure and sebum balance; common scalp presentations at an awareness level; scalp assessment methods.
 - Unit II: Hair Care Technique Science — Cleansing, conditioning, detangling and scalp-massage technique principles; heat and mechanical damage.
 - Unit III: Hair Types, Texture and Treatments — Classification systems; technique adaptation; overview of cosmetic hair treatments and their scalp-safety considerations.
 - Unit IV: Product Application for Hair and Scalp — Supervised application principles for hair and scalp preparations; patch-testing support; timing, rinsing and neutralization discipline.
 - Unit V: Practical Application — Client preparation, draping and eye protection; assistive support during scalp and hair procedures; documentation of pre- and post-procedure scalp condition.
- Recommended Readings: Trichology and cosmetic hair care reference guides.

3. Cosmetic Formulation and Product Science — II

- Objectives: To extend formulation knowledge to the intermediate product categories and processes used in aesthetic practice.
- Outcomes: Students will formulate serums/creams, handle cosmetic actives safely, and understand batch documentation and stability testing.
- Graduate Attributes Addressed: GA1, GA9.
- Units:
 - Unit I: Emulsion and Delivery Systems — Oil-in-water and water-in-oil systems; stability factors; introduction to encapsulation and delivery vehicles (overview).
 - Unit II: Cosmetic Actives — Hydroxy acids, retinoids, vitamin C, niacinamide, peptides and botanical actives: properties, concentration ranges and handling precautions (non-prescriptive overview).

- Unit III: Process Technology — Mixing, heating and cooling processes; in-process controls; batch documentation and elementary scale-up.
- Unit IV: Packaging and Stability — Packaging compatibility and preservation; accelerated stability testing concepts; storage conditions for clinic-use preparations.
- Unit V: Practical — Preparation of a serum or cream prototype; sensory and physical evaluation; stability observation and structured reporting.
- Recommended Readings: Advanced cosmetic formulation and manufacturing texts.

4. Nutrition and Wellness for Skin and Hair

- Objectives: To provide awareness-level understanding of the role of nutrition, lifestyle and general wellness in skin and hair condition.
- Outcomes: Students will understand macronutrients and micronutrients, recognize the limits of dietary advice within their role, and support practitioner-approved education.
- Graduate Attributes Addressed: GA1, GA7.
- Units:
 - Unit I: Nutrition Fundamentals — Macronutrients, micronutrients and hydration relevant to skin, hair and nail condition.
 - Unit II: Nutrition and Appearance (Awareness Level) — General, non-clinical associations between diet and skin or hair condition; the limits of the technician's role in this area.
 - Unit III: Lifestyle and Wellness Factors — Sleep, physical activity, stress and their general contribution to skin and hair condition.
 - Unit IV: Client Education Support — Reinforcing wellness guidance approved by the supervising practitioner; recognizing and declining requests for independent dietary or therapeutic advice.
 - Unit V: Practical — Non-prescriptive case discussions and role-play in supporting practitioner-approved client education, with correct escalation of out-of-scope questions.
- Recommended Readings: Nutritional science and wellness publications.

5. Clinical Postings-I

- Objectives: To orient students to a live cosmetic and aesthetic care setting, and to build foundational observation, hygiene and basic facial/body-care assistance skills under direct supervision.
- Outcomes: Students will maintain strict facility hygiene, assist in client reception and documentation, and execute basic supervised care tasks.
- Graduate Attributes Addressed: GA5, GA7.
- Units:
 - Unit I: Orientation and Facility Familiarisation — Induction to facility layout, zoning, dress code and conduct policy; introduction to the supervising Registered Medical Practitioner and staff; review of the Scope and Limitations Statement and signing of the student undertaking.
 - Unit II: Hygiene, Infection Control and Client Reception Assistance — Hand hygiene and personal protective equipment use; supporting client reception, intake documentation and consent-form handling under direction; maintenance of a clean and organised workstation.
 - Unit III: Observation of Basic Cosmetic Care Procedures — Structured observation of practitioner- or senior-technician-led facials, basic body-care procedures, manicure and pedicure; recording of observed steps, materials and sequencing in the logbook.
 - Unit IV: Supervised Assistance in Basic Procedures — Graduated, directly supervised assistance in client preparation, draping, cleansing and basic facial/body technique steps that fall squarely within the permitted-activities list, always under continuous direct supervision.
 - Unit V: Reflective Practice and Documentation — Daily logbook entries countersigned by the supervisor; a weekly reflective note on hygiene, safety and communication observations; preparation for the end-of-posting skill checklist and viva-voce.
- Recommended Readings: Clinical guidelines and standard operating procedures for aesthetic clinics.

6. Artificial Intelligence in Healthcare

- Objectives: Build foundational understanding of AI technologies, healthcare data systems, clinical decision support tools, and governance in medical settings.

- Outcomes: Students will identify health data taxonomies, appreciate computer vision and NLP applications, and follow AI governance and patient privacy practices.
- Graduate Attributes Addressed: GA1, GA2, GA3, GA5, GA7, GA9, GA10.
- Units:
 - Unit I: Introduction to AI in Healthcare — Evolution, definitions, and scope of AI, ML, DL, and Generative AI in medicine; healthcare AI ecosystem, opportunities, limitations, supervised and unsupervised learning, neural networks, and predictive analytics.
 - Unit II: Healthcare Data and Core Applications — Healthcare data sources, including EHRs, medical imaging, registries, and wearable devices; data quality, interoperability, FAIR principles, data preprocessing, clinical decision support, risk prediction, and hospital resource allocation.
 - Unit III: AI Tools and Patient Care Technologies — Applications of computer vision in radiology and pathology; NLP, Generative AI, medical chatbots, clinical documentation, personalized medicine, genomics, healthcare research, and evidence synthesis.
 - Unit IV: Ethics, Governance, and Future Trends — Responsible AI, algorithmic bias, explainability, fairness, privacy, and confidentiality; WHO guidance, AI regulation, ABDM, digital twins, federated learning, and human–AI collaboration in healthcare.
- Recommended Readings: Key texts on healthcare informatics and digital health standards.

SEMESTER IV

1. Common Skin and Hair Presentations: Recognition and Referral

- Objectives: To develop the ability to recognize common skin and hair presentations and red-flag signs for referral, without diagnosing, prescribing or treating.
- Outcomes: Students will identify common presentations and absolute/relative contraindications, executing correct referral protocols.
- Graduate Attributes Addressed: GA2, GA7.
- Units:

- Unit I: Overview of Common Presentations — Non-diagnostic awareness of acne, pigmentation, sensitivity, dryness, common scalp and hair-loss presentations, and their appearance.
- Unit II: Red-Flag Signs — Presentations requiring immediate referral: rapidly changing or bleeding lesions, signs of infection, severe reactions, and any acute deterioration during a procedure.
- Unit III: Contraindications — Absolute and relative contraindications to cosmetic and aesthetic procedures; medication, pregnancy, recent procedure and photosensitivity considerations requiring clearance by the supervising practitioner.
- Unit IV: Referral Protocol and Documentation — Standard referral pathway; what to record, what to communicate and what never to state to a client; handover discipline.
- Unit V: Practical — Simulated case exercises in non-diagnostic recognition, contraindication screening and correct referral decision-making, with written documentation.
- Recommended Readings: Clinical recognition and triage guidelines for skin assistants.

2. Client Assessment and Cosmetic Consultation Assistance

- Objectives: To build supervised assistive competence in client assessment, consultation support and treatment-record preparation.
- Outcomes: Students will record client-administered histories, manage standardized imaging, and support practitioner-led consultations.
- Graduate Attributes Addressed: GA3, GA5.
- Units:
 - Unit I: Client Intake and History (Assistive) — Structured recording of client-reported history, medication and allergy information; preparing the record for the practitioner's consultation.
 - Unit II: Assessment Tools and Imaging — Skin-type and phototype charts; standardized assessment forms; standardized clinical photography, lighting and imaging systems for cosmetic documentation.

- Unit III: Consultation Support — Assisting the practitioner-led consultation; supporting the informed-consent process; preparing procedure plans and pre-procedure instructions as directed.
- Unit IV: Post-Procedure Care and Follow-Up — Delivering practitioner-approved aftercare instructions; scheduling review visits; recording outcomes and client-reported effects.
- Unit V: Practical — Integrated simulated consultations covering intake, imaging, consent support, documentation and follow-up scheduling.
- Recommended Readings: Aesthetic consultation and medical documentation standards.

3. Advanced Facial and Scalp Care Techniques

- Objectives: To develop advanced supervised technique competence across combined facial and scalp cosmetic care procedures.
- Outcomes: Students will execute multi-step facial protocols, advanced scalp treatments, and maintain quality assurance standards.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Advanced Facial Techniques — Sequenced multi-step facial protocols; lymphatic drainage and massage techniques; adaptation for sensitive and mature skin.
 - Unit II: Advanced Scalp Techniques — Scalp cleansing, exfoliation and treatment application protocols; scalp-massage technique; adaptation for different scalp presentations.
 - Unit III: Combination Protocols — Combining techniques safely within one session; sequencing rules; recognizing when a step must be deferred and escalated.
 - Unit IV: Quality and Consistency — Standard operating procedures, checklists and outcome documentation for repeatable technique delivery.
 - Unit V: Practical — Capstone supervised sessions integrating advanced facial and scalp protocols with full pre-procedure, intra-procedure and aftercare documentation.
- Recommended Readings: Advanced aesthetics procedural manuals.

4. Superficial Cosmetic Peels and Resurfacing: Assistive Support

- Objectives: To build assistive competence in supporting practitioner-led superficial cosmetic peel and resurfacing procedures, with no independent selection or application authority.
- Outcomes: Students will prepare trays and agents, support intra-procedure timing and neutralization, and recognize adverse responses.
- Graduate Attributes Addressed: GA1, GA7.
- Units:
 - Unit I: Science of Superficial Peels — Agent categories, concentration and pH; depth of action; expected endpoints (theoretical level).
 - Unit II: Client and Room Preparation — Priming instructions as directed; contraindication screening support; preparation of trays, agents, neutralizers and emergency items.
 - Unit III: Intra-Procedure Assistance — Timing, handing of agents, client comfort and reassurance, endpoint observation and immediate reporting to the practitioner; neutralization support on the practitioner's instruction.
 - Unit IV: Aftercare and Complication Awareness — Practitioner-approved aftercare; recognition of expected versus adverse responses; escalation protocol and documentation.
 - Unit V: Practical — Simulation-based peel-assistance drills on models and mannequins, including tray setup, timing discipline, endpoint reporting and adverse-response escalation.
- Recommended Readings: Guidelines on chemical peels and resurfacing safety.

5. Client Communication, Documentation and Professional Ethics

- Objectives: To build professional communication, documentation and ethical-practice competence appropriate to the aesthetic technician role.
- Outcomes: Students will manage client expectations empathetically, support consent processes, maintain accurate records, and respect scope boundaries.
- Graduate Attributes Addressed: GA5, GA7.
- Units:

- Unit I: Client Communication — Empathetic communication; managing expectations about cosmetic outcomes; handling dissatisfaction and difficult conversations.
- Unit II: Consent and Confidentiality — Supporting the practitioner-led informed-consent process; consent for photography; confidentiality and data protection.
- Unit III: Documentation Standards — Accurate, timely, complete and legible records; procedure logs; image records; correction and retention practices.
- Unit IV: Professional Ethics and Scope Discipline — Boundaries of the assistive role; refusing out-of-scope requests; the ethics of marketing and outcome claims in aesthetic practice.
- Unit V: Practical — Role-plays covering expectation management, consent support, refusal of out-of-scope requests and complete documentation of a simulated session.
- Recommended Readings: Professional ethics and medical legal frameworks in aesthetics.

6. Clinical Postings-II

- Objectives: To build supervised competence in client assessment assistance, documentation and intermediate facial/scalp technique support.
- Outcomes: Students will assist during consultations, recognize red-flag signs, support intermediate facial/scalp techniques, and deliver aftercare.
- Graduate Attributes Addressed: GA5, GA7.
- Units:
 - Unit I: Consultation Assistance — Assisting the practitioner during client consultation by recording client-reported history, expectations and standardised cosmetic photography.
 - Unit II: Recognition and Referral Practice — Structured exposure to common skin and hair presentations for recognition purposes only; immediate reporting of red flags.
 - Unit III: Intermediate Facial and Scalp Technique Assistance — Directly supervised assistance in advanced facial and scalp-care techniques.

- Unit IV: Superficial Peel Assistance — Tray preparation, timing support, endpoint observation, and neutralisation support.
- Unit V: Aftercare Delivery and Documentation — Delivery of practitioner-approved aftercare instructions and complete log maintenance.
- Recommended Readings: Clinical posting handbooks and logbooks.

SEMESTER V

1. Aesthetic Equipment Technology — I (Assistive)

- Objectives: To introduce the principles, safe handling and assistive operation of the equipment commonly used in cosmetic and aesthetic practice.
- Outcomes: Students will understand equipment categories, electrical safety, assistive setup, and routine maintenance/fault reporting.
- Graduate Attributes Addressed: GA1, GA3.
- Units:
 - Unit I: Equipment Categories — Steamers, magnifying and imaging units, brushing and vacuum units, galvanic and high-frequency units, mechanical skin-resurfacing systems using crystal or diamond-tip applicators (overview).
 - Unit II: Electrical Safety — Electrical safety principles; earthing, fuses and protective devices; safe cable and power management; equipment-related hazard recognition.
 - Unit III: Assistive Operation — Pre-use checks, parameter setup as directed, client and room preparation, positioning, and support during practitioner-led operation.
 - Unit IV: Cleaning, Maintenance and Fault Reporting — Manufacturer-specified cleaning; consumable replacement; routine checks; logging and reporting of faults.
 - Unit V: Practical — Supervised simulated equipment setup, assistance and post-use decontamination and maintenance with logbook entries.
- Recommended Readings: Aesthetic device operations and electrical safety manuals.

2. Light-Based and Laser Technology: Principles and Safety

- Objectives: To provide theoretical knowledge of light-based and laser technology principles and safety at a non-operative, assistive-support level.
- Outcomes: Students will understand laser physics, device classes, safety protocols, and strict assistive boundaries.
- Graduate Attributes Addressed: GA1, GA7.
- Units:
 - Unit I: Physics of Light and Laser — Wavelength, fluence, pulse duration and spot size; selective photothermolysis; chromophores and light–tissue interaction (theoretical).
 - Unit II: Device Classification and Standards — Laser hazard classes; intense pulsed light systems; applicable safety standards, signage and controlled-area requirements.
 - Unit III: Safety Protocols — Eye protection selection by wavelength; plume and fire safety; skin cooling; emergency shutdown and response procedures.
 - Unit IV: Assistive Role Boundaries — Explicit boundaries of the technician role: preparation, consumable and parameter readiness, documentation and post-procedure care only; never independent selection or delivery.
 - Unit V: Practical — Simulated controlled-area setup, eyewear verification, safety-drill execution and incident-reporting exercises.
- Recommended Readings: Laser safety standards (ANSI/IEC) and medical laser guidelines.

3. Energy-Based and Electrical Aesthetic Devices (Assistive)

- Objectives: To extend equipment competence to the radiofrequency, ultrasound and other energy-based devices used in supervised aesthetic settings.
- Outcomes: Students will recognize device categories, implement safety/contraindication checks, and assist in setup and support.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Device Categories — Radiofrequency, focused and non-focused ultrasound, micro current, cryolipolysis and similar modalities (overview, non-operative).

- Unit II: Safety and Contraindication Awareness — Device-specific precautions; implant, pregnancy and medication considerations requiring practitioner clearance before any session proceeds.
- Unit III: Assistive Setup and Support — Coupling media, applicator preparation, client positioning and draping, comfort monitoring and reporting during practitioner-led sessions.
- Unit IV: Maintenance, Calibration and Fault Reporting — Routine checks, calibration awareness, consumable tracking and structured fault escalation.
- Unit V: Practical — Supervised simulated setup, support and fault-reporting exercises across energy-based device categories.
- Recommended Readings: Energy-based aesthetic device user manuals and safety guides.

4. Infection Control and Procedure-Room Management in Aesthetic Practice

- Objectives: To build competence in managing a safe, compliant and well-organised aesthetic procedure environment.
- Outcomes: Students will maintain room standards, reprocess instruments, manage sharps and waste safely, and participate in emergency preparedness.
- Graduate Attributes Addressed: GA7.
- Units:
 - Unit I: Procedure-Room Standards — Zoning, surfaces, ventilation and lighting; clean and dirty workflow; storage of sterile and single-use items.
 - Unit II: Instrument Reprocessing — Cleaning, packing, sterilization, storage and shelf-life; validation records; single-use policy discipline.
 - Unit III: Sharps and Waste Management — Safe handling of sharps used in practitioner-led procedures; needle-stick prevention and post-exposure protocol; biomedical waste segregation and documentation.
 - Unit IV: Emergency Preparedness — Emergency trolley readiness, oxygen and first-aid supplies, basic life-support awareness, fire safety and evacuation procedure.
 - Unit V: Practical — Full procedure-room turnover drill; sterilization cycle documentation; sharps-injury and emergency-response simulation.

- Recommended Readings: Hospital infection control and biomedical waste management rules.

5. Non-Invasive Skin Tightening and Body Contouring Technologies (Assistive)

- Objectives: To build awareness of, and assistive competence in supporting, the non-invasive aesthetic technologies used in supervised settings.
- Outcomes: Students will understand modalities, provide session support, perform measurement and marking, and deliver aftercare.
- Graduate Attributes Addressed: GA1, GA5.
- Units:
 - Unit I: Overview of Modalities — Non-invasive skin tightening, body contouring and cellulite-management technologies used in supervised aesthetic practice.
 - Unit II: Mechanism Overview — Basic mechanism-of-action awareness for each modality at a non-clinical depth; realistic outcome and session-count expectations.
 - Unit III: Assistive Session Support — Measurement, marking support as directed, positioning, applicator and coupling preparation, comfort monitoring and session documentation.
 - Unit IV: Client Safety and Aftercare — Pre-session safety checks; recognition of adverse responses; delivery of practitioner-approved aftercare and follow-up scheduling.
 - Unit V: Practical — Supervised assistive session setup, support, aftercare instruction and outcome documentation across the covered modalities.
- Recommended Readings: Non-invasive body contouring device literature.

6. Clinical Postings-III

- Objectives: To build supervised, non-operative equipment-assistance competence across aesthetic devices, infection control and body-contouring modalities.
- Outcomes: Students will manage sterile fields, assist in laser and energy-based device sessions, support body contouring, and execute emergency drills.
- Graduate Attributes Addressed: GA2, GA7.
- Units:

- Unit I: Procedure-Room and Sterile-Field Readiness — Supervised procedure-room turnover, instrument reprocessing support and sterile-field maintenance.
- Unit II: Light-Based and Laser Device Assistance — Controlled-area setup, eyewear verification, consumable and parameter readiness, and post-session documentation.
- Unit III: Energy-Based Device Assistance — Coupling-media and applicator preparation, client positioning and comfort monitoring.
- Unit IV: Body Contouring Session Support — Measurement and marking support as directed, session documentation and aftercare delivery.
- Unit V: Emergency and Incident-Response Drills — Participation in facility emergency-trolley checks, mock adverse-event escalation drills and structured incident reporting.
- Recommended Readings: Clinical procedure protocols and safety checklists.

SEMESTER VI

1. Aesthetic Equipment Technology — II (Advanced Assistive)

- Objectives: To consolidate advanced supervised equipment-assistance competence across the full range of aesthetic device categories.
- Outcomes: Students will manage multi-device sessions, troubleshoot basic equipment issues, and execute escalation pathways.
- Graduate Attributes Addressed: GA2, GA3.
- Units:
 - Unit I: Consolidated Device Overview — Comparative overview of optical, energy-based, mechanical and combination platforms used in aesthetic practice.
 - Unit II: Advanced Assistance Protocols — Standard operating procedures for assisting practitioner-led device sessions; parameter documentation; consumable management.
 - Unit III: Troubleshooting and Escalation — Recognizing device malfunction and adverse client responses; immediate actions; escalation and incident-reporting pathway.

- Unit IV: Multi-Device Session Support — Supporting sequenced or combination sessions; turnaround discipline; cross-contamination prevention between modalities.
- Unit V: Practical — Comprehensive supervised evaluation of assistance competence across multiple device categories.
- Recommended Readings: Advanced aesthetic equipment management guides.

2. Advanced Aesthetic Procedure Assistance and Integrated Protocols

- Objectives: To consolidate advanced, supervised assistance competence across integrated cosmetic and aesthetic procedure protocols.
- Outcomes: Students will support multi-modality protocol designs, maintain high-throughput standards, and support internal audits.
- Graduate Attributes Addressed: GA1, GA2.
- Units:
 - Unit I: Integrated Protocol Design (Assistive) — Supporting practitioner-designed combination protocols; sequencing, spacing and interaction awareness between modalities.
 - Unit II: Advanced Assistance Standards — Standard operating procedures, time-motion discipline, and quality benchmarks for high-throughput aesthetic settings.
 - Unit III: Complication Preparedness — Recognition and immediate response support for adverse events across procedure categories; documentation and reporting standards.
 - Unit IV: Outcome Documentation and Audit — Standardized imaging, outcome tracking, client-satisfaction measurement and internal audit support.
 - Unit V: Practical — Comprehensive supervised assessment across integrated, multi-modality assistance scenarios.
- Recommended Readings: Integrated aesthetic treatment guidelines.

3. Assistance in Minor Aesthetic Procedures: Preparation, Support and Aftercare

- Objectives: To build strictly assistive competence in preparing for, supporting and following up practitioner-performed minor cosmetic and aesthetic procedures.

- Outcomes: Students will prepare sterile trays, assist during minor procedures while maintaining sterile fields, and adhere to strict non-injection boundaries.
- Graduate Attributes Addressed: GA7.
- Units:
 - Unit I: Procedure Overview — Awareness-level overview of minor aesthetic procedures performed by the practitioner, and their room and consumable requirements.
 - Unit II: Pre-Procedure Preparation — Verification of consent and contraindication clearance; client preparation, cleansing and topical anaesthetic application as directed; sterile tray preparation.
 - Unit III: Intra-Procedure Assistance — Maintaining the sterile field; passing instruments and consumables; client comfort, positioning and monitoring; recording parameters.
 - Unit IV: Aftercare and Complication Recognition — Practitioner-approved post-procedure care; recognition of expected versus adverse responses; immediate escalation protocol.
 - Unit V: Practical — Simulation-based drills on sterile-tray preparation, assistance sequencing, adverse-response escalation and procedural documentation.
- Recommended Readings: Minor surgical assistance and sterile technique manuals.

4. Hair and Scalp Aesthetic Procedure Assistance

- Objectives: To build supervised assistive competence in the hair and scalp aesthetic procedures performed by the practitioner.
- Outcomes: Students will assist in hair-loss assessments, non-surgical scalp procedures, hair restoration support, and hair removal sessions.
- Graduate Attributes Addressed: GA1, GA5.
- Units:
 - Unit I: Hair-Loss Assessment Support — Assistive documentation of hair-loss patterns; standardized scalp imaging and photographic protocols; hair-count and density recording as directed.

- Unit II: Non-Surgical Procedure Assistance — Room, consumable and client preparation for practitioner-performed scalp procedures; intra-procedure support; aftercare instruction delivery.
- Unit III: Hair Restoration Procedure Support — The assistive role in practitioner-led hair restoration procedures: sterile-field maintenance, instrument and consumable handling.
- Unit IV: Cosmetic Hair Removal Technologies — Assistive support for light-based and other hair-removal sessions; phototype-based safety checks; eye protection and endpoint reporting.
- Unit V: Practical — Simulation-based assistance drills across hair and scalp procedure categories, with complete documentation and escalation practice.
- Recommended Readings: Hair restoration and trichology procedure assistant guides.

5. Research Methodology and Biostatistics

- Objectives: To build the basic research-methodology and biostatistics skills required for quality work and the final-year project.
- Outcomes: Students will formulate research questions, collect data ethically, apply descriptive statistics, and draft a complete research proposal.
- Graduate Attributes Addressed: GA2, GA10.
- Units:
 - Unit I: Research Fundamentals — Research types; problem identification; literature search and review basics; referencing tools.
 - Unit II: Data Collection — Surveys, structured observation and basic study design relevant to cosmetic and aesthetic sciences (overview).
 - Unit III: Biostatistics — Descriptive statistics; data presentation; introduction to tests of significance and their interpretation.
 - Unit IV: Research Ethics and Reporting — Ethical clearance requirements; consent in research; plagiarism; report and dissertation conventions.
 - Unit V: Practical — Drafting a complete research proposal for the final-year project, including objectives, methodology, ethics statement and analysis plan.
- Recommended Readings: Research methodology and biostatistics textbooks for health sciences.

6. Clinical Postings-IV

- Objectives: To consolidate advanced, supervised assistance competence across integrated equipment, minor-procedure and hair/scalp procedure categories in preparation for the internship.
- Outcomes: Students will demonstrate readiness for clinical internships through multi-device assistance, sterile procedure support, and complication escalation drills.
- Graduate Attributes Addressed: GA2, GA7.
- Units:
 - Unit I: Multi-Device Session Assistance — Supporting sequenced or combination-modality sessions with turnaround discipline and cross-contamination prevention.
 - Unit II: Minor Aesthetic Procedure Assistance — Sterile-tray preparation, consent clearance verification support, and intra-procedure assistance (strictly excluding injections/needling).
 - Unit III: Hair and Scalp Procedure Assistance — Standardised scalp imaging and hair-count documentation support during practitioner-led procedures.
 - Unit IV: Complication Recognition and Escalation — Structured practice in recognising expected versus adverse responses and executing the correct escalation pathway.
 - Unit V: Comprehensive Skill Consolidation — A consolidated, supervisor-assessed skill demonstration as a readiness gate for the Clinical Internship-I.
- Recommended Readings: Clinical competency assessment checklists and logbooks.

SEMESTER VII

1. Aesthetic Equipment Safety, Maintenance and Quality Assurance

- Objectives: To build competence in equipment safety management, preventive maintenance and quality assurance in an aesthetic facility.
- Outcomes: Students will conduct risk assessments, plan preventive maintenance, verify calibration, and manage incident reporting.
- Graduate Attributes Addressed: GA2, GA7.
- Units:
 - Unit I: Safety Management Systems — Risk assessment, hazard registers and safety-management principles for aesthetic equipment.

- Unit II: Preventive Maintenance — Scheduled maintenance planning, service contracts, spare-and-consumable inventory and record-keeping.
- Unit III: Calibration and Quality Checks — Calibration awareness, output verification, routine quality checks and acceptance criteria.
- Unit IV: Incident Reporting and Compliance — Incident and near-miss reporting; device-related adverse event documentation; regulatory and accreditation expectations.
- Unit V: Practical — Supervised mock equipment-safety audit consolidating maintenance, calibration, documentation and incident-reporting practice.
- Recommended Readings: Medical device maintenance and quality assurance standards.

2. Ethics, Law and Scope of Practice for Aesthetic Technicians

- Objectives: To consolidate the legal, ethical and scope-of-practice knowledge essential to safe and compliant technician practice.
- Outcomes: Students will apply bioethical principles, understand consumer and data protection laws, recognize liability, and respect scope boundaries.
- Graduate Attributes Addressed: GA7.
- Units:
 - Unit I: Professional Ethics — Autonomy, beneficence, non-maleficence and justice as applied to the aesthetic technician role; confidentiality and professional boundaries.
 - Unit II: Legal Framework — Overview of the Consumer Protection Act, data-protection obligations, workplace-safety law, advertising regulation, and unauthorized medical practice.
 - Unit III: Scope of Practice and Liability — Detailed reinforcement of scope boundaries; delegation and supervision doctrine; vicarious and personal liability awareness.
 - Unit IV: Case Studies and Ethical Decision-Making — Case-based analysis of scope, consent and outcome-dispute dilemmas and correct escalation responses.
 - Unit V: Practical — Consolidated case-based assessment of ethics, legal framework and scope-of-practice judgment.

- Recommended Readings: Medical law, ethics, and consumer protection acts.

3. Supervised Clinical Assistance Internship — I & II / Project Work (Semesters VII & VIII)

- Objectives: Comprehensive supervised clinical assistance placement in approved facilities under continuous medical supervision, accompanied by final research dissertation completion and defense.
- Outcomes: Students will master routine workflow support, safety compliance, documentation, and research presentation under direct supervision.
- Graduate Attributes Addressed: All Graduate Attributes (GA1 to GA10).
- Units:
 - Full-time clinical assistant placement under a Registered Medical Practitioner with mandatory logbook maintenance, paired with final-year project data analysis and thesis defense.
- Recommended Readings: Advanced clinical placement guides, hospital safety manuals, and academic writing standards.