

M.CH (PLASTIC & RECONSTRUCTIVE SURGERY)

[Syllabus Approved by Board of Studies, Medical & Health Sciences]

Programme Code	:	HLTH10B03
Programme Details	:	M.CH PLASTIC & RECONSTRUCTIVE SURGERY
Programme Learning Outcomes (PLOs / PSOs)	:	ANNEXED IN THE BELOW FORMAT
Eligibility Criteria	:	AS PER NMC NORMS
Duration of the Course	:	3 YEARS
Programme Structure (Credit-Based)	:	NA
Detailed Course Syllabus	:	ANNEXED IN THE BELOW FORMAT
Teaching–Learning Methodologies	:	3 YEARS RESIDENCY PROGRAM
Examination & Evaluation System	:	ANNUAL APPRAISALS FOLLOWED BY FINAL YEAR EXAMINATION AS PER NMC NORMS
Internship / Project / Dissertation Guidelines	:	1 YEAR MANDATORY BOND
Program In Charge	:	HEAD, DEPT OF PLASTIC & RECONSTRUCTIVE SURGERY Coordinator: Dr. Vinaykant Shankadhar vinayshankhdhar@gmail.com

M.Ch. (PLASTIC SURGERY & RECONSTRUCTIVE SURGERY)

Programme Code: HLTH10B03

Programme Outcome:

- To train the M.Ch. candidates in basics of Plastic and reconstructive surgery.
- To provide holistic management for patients, including diagnosis, planning Reconstructive procedures to improve the quality of life and rehabilitation of the surgical patients.
- To build clinical skills in various Plastic Reconstructive Procedures
- To create an understanding regarding basic principles of clinical research, and translating application to various Plastic and reconstructive procedures
- To provide national and international platform for presentations of research data in the field of Plastic and reconstructive surgery.
- The training should produce consultants to practice all over the country, and teachers to propagate training to future generations of trainees in the field of Plastic and Reconstructive surgery with special emphasis on core construction.
- The candidate should complete the training programme as per prespecified norms.
- To complete the necessary training the students, need to complete the rotation at Sion / Nair / KEM for a total period of one Year
- The student is expected to participate in the regular appraisal examinations and academic programmes conducted in the institute.
- The purpose would be to acquire an understanding of the subject of Plastic and Reconstructive surgery
- The candidate's progress through the 3 years will also be assessed with feedback from all stake holders, including the candidate and work-based assessment.

▪ **BASIC SCIENCES**

• **Embryology and Development of Human**

Tissues

Course Outcomes:

To teach the concepts of Embryology and development of human tissues

• **Genetics and Congenital Abnormalities**

Course Outcomes:

To teach the diagnosis and management of genetic and congenital abnormalities

• **Mechanism of Healing of Tissues, Factors**

Affecting the Healing

Course Outcomes:

To teach the diagnosis and management of healing of tissues, factors affecting the healing

• **Infection and Its Management**

Course Outcomes:

To teach the diagnosis and management of Infection

• **General Principles of Surgery**

Course Outcomes:

To teach the general principles of surgery and their application in plastic and reconstructive surgery

• **The Suture Materials and Suture Techniques**

Course Outcomes:

To teach the usage of correct suture material and suturing techniques

• **Clinical Examination of Various Systems and**

Clinical Photography

Course Outcomes:

To teach proper clinical examination and documentation using clinical photography

- **General Anesthesia Pre- and Post-Operative Care for General Anesthesia**

Course Outcomes:

To teach the monitoring of patients in pre and post op period after general anesthesia

- **Local, Regional and Other Nerve Blocks**

Course Outcomes:

- To teach the proper techniques and use of Local, regional and other nerve blocks

- **Hypertensive and Hypothermic Anesthesia**

Course Outcomes:

- To teach the applications of hypertensive and hypothermic anaesthesia in plastic surgical procedures

- **Management of Benign and Malignant Lesions**

Course Outcomes:

- To teach the management of benign and malignant lesions and their reconstructive options.

- **Wound Healing, Wound Care, Dressings and Splints**

Course Outcomes:

- To teach the concepts of wound healing, proper wound care. Applications of various available dressings. Application of splints in trauma, burns

- **Fluid and Electrolyte Balance, Acid Base Balance**

Course Outcomes:

- To teach the Fluid and electrolyte balance, acid base balance in burns management and post op period

- **Shock and Pulmonary Failure, Blood Transfusions, Ventilator Support and Critical Care**

Course Outcomes:

- To teach the basics of management of shock, pulmonary failure, blood transfusion.

- **Assessment of Trauma, Vascular Emergencies Embolism**

Course Outcomes:

- To teach the diagnosis and management of trauma and vascular emergencies

▪ **GENERAL TOPICS**

- **History of Plastic Surgery**

Course Outcomes:

- To understand the development of various procedures and contributions of stalwarts in the field of plastic surgery

- **Scope of Plastic Surgery**

Course Outcomes:

- The spectrum of Plastic surgery is very wide. To understand the application of plastic and reconstructive surgery procedures in various aspects of patient care ranging from burns, cosmetic, hand, trauma, oncor construction etc.

- **Tissue Distortion, Tissue Loss and Its Management**

Course Outcomes:

- To understand the concept of tissue replacement after excision, disease, accident, congenital anomalies etc.

- **Tissue Culture, Transplantation Biology and Its Applications**

Course Outcomes:

- To develop understanding of tissue culture like skin and muscle, and their applications for reconstructive procedures.

- **Plastic Surgery Instruments and Equipments**

Course Outcomes:

- To teach the handling and proper use of instruments like microscopes, loupes etc. required for various procedures in plastic and reconstructive surgery.

- **Maintenance of Medical Records, Informed Consent**

Course Outcomes:

- To teach the importance of data maintenance for evaluation of results, publications and importance of consent in surgery and trials.

- **Applications of Computer and Related Programs**

Course Outcomes:

- To develop understanding of Applications of software for making presentations, projects, statistics etc.

- **Social Psychological, Ethical and Medico Legal Aspects**

Communication Skills

Course Outcomes:

- To develop communication skills, and teach the medicolegal aspects necessary for handling surgeries

- **Implants, Orthotics and Prosthesis and Applied to Plasticurgery**

Course Outcomes:

- To teach the available Orthodontic treatments, prosthesis and implants and their uses in Plastic and reconstructive surgeries

- **Tissue Expansion and Tissue Distraction**

Course Outcomes:

- To teach the uses and techniques of tissue expansions and tissue distractions in various procedures

- **Management of Leprosy, Leprosy Deformities and Leprosy Reconstructive Surgery**

Course Outcomes:

- To study the deformities and their subsequent correction resulting due to leprosy.

- **Endoscopic Plastic Surgery**

Course Outcomes:

- To teach the applications of endoscopic plastic surgery e.g. In muscle only harvest.

- **Advances, Recent Advances and Current Trends in Plastic Surgery**

Course Outcomes:

- To teach and study the recent advances and current practises for improving patient care and more
- relevant research projects.

- **Principles of Surgical Audit, Understanding Journal and Review Articles, Text Books and Reference Books, Critical Assessment of Articles**

Course Outcomes:

- To evaluate our own results and constantly improvising our results through surgical audits. To apply newer modalities in clinical practise and research.

- **Research Methodology and Biostatistics**

Course Outcomes:

- To create an understanding regarding basic principles of clinical research, statistics and emphasis on Good Clinical Practice guidelines (GCP) and translating this knowledge application to plastic and reconstructive procedures.

- **Arteriovenous Malformations, Varicose Veins, Chronic Venous Insufficiency**

Course Outcomes:

- To train in management of arteriovenous malformations, varicose veins, chronic venous
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insufficiency.

- **Meningomyelocele, Encephalocele, Spinal Fusion Defects, Ventral Defects, Anorectal Anomalies**

Course Outcomes:

- To teach the concepts of Embryology and development of human tissues
- To train in management of Meningomyelocele, encephalocele, spinal fusion defects, ventral defects, anorectal anomalies