

ASK Fraternity

Registered Govt of Pakistan & Diplomatic Programs Accredited
by MedicPro (Diploma Awarding Institute, UK)



CURRICULUM FOR GENERAL SURGERY (DIPLOMA)

(90 Credit Hours)
2024 SESSION

CURRICULUM SECTION ACADEMICS DEPARTMENT

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Training Objectives

The Diploma program is oriented towards a review of the main aspects of the current management of the surgical patient, based on scientific evidence and the experience of renowned professionals in the field of critical care.

Update the most frequent procedures and techniques of routine clinical practice in abdominal, endocrine and emergency digestive surgery, as well as to review the latest developments in terms of indications, surgical techniques and less invasive alternative treatments in the specialty of digestive system surgery. Surgery is a technically demanding area of medicine and few people have the necessary expertise to work in this area. This course allows you to learn complex skills that are in high demand. Using our virtual learning platform – which has been specially developed to teach laparoscopic surgery and bowel anastomosis – you’ll be able to tailor your learning to build your confidence and master essential surgical skills.

You’ll receive a ‘take-home’ simulator, instruments, sutures, practice jigs and a virtual reality headset so you can gain regular hands-on practice at home.

As well as these key practical skills, you’ll develop a clear understanding of the research process, including critical appraisal and how to present work for publication.

To complete the programme, you’ll be expected to have internet access, a smartphone to use our virtual reality applications and a webcam.

After this program, students will be able to do job in the industry like Healthcare Industry, Surgical Technologists (also called surgical techs, operating room technicians, and OR techs) assist in surgical operations, preparing operating rooms and assisting surgeons, nurses, and physicians before and during surgical procedures.

Curriculum Salients

Title of Program	Diploma in General Surgery
Eligibility Criteria	Medical Background or Any Healthcare Field related student or professional can join this diploma.
Credit Hours	90 HOURS
Training Methodology	Theory 70% Practical 30%
Platform	ZOOM (Live & Recordings also available)
Medium of Instruction	English and Urdu

Skill Proficiency Details

On successful completion of this program, knowledge seekers should be able to:

1. Demonstrate Reading, comprehension and vocabulary.
2. Apply the concepts of composition writing to practical situations.
3. Identify the classification of abnormalities & its role in human body.
4. Identify the symptoms and health disorders associated with improper guidance.
5. Update procedures in the surgical approach to open abdomen and evisceration.
6. Explain the latest advances in the surgical process in the treatment of eventrations.
7. Describe new developments in the surgical treatment of inguino-crural hernias.
8. Describe the characteristics of thyroid surgery in the treatment of thyroid nodule and multinodular goiter, hyperthyroidism.
9. Incorporate advances in surgical procedures in the management of primary, secondary and tertiary hyperparathyroidism.
10. Identify innovations in the field of general and digestive surgery: in surgical learning, in surgical devices, in NOTES surgery and in Cell Therapy and Surgery.
11. Point out the role of Information and Communication Technologies applied to surgery.
12. Assess the new indications and importance of robotic surgery.
13. Update general surgical procedures and techniques applied to patients in emergency situations due to upper and lower gastrointestinal bleeding.
14. Determine the characteristics of financing, protection and transfer of innovation in surgery.
15. Report Test Interpretations to management.

Knowledge Proficiency Details

On successful completion of this program, candidate should be able to:

1. Understand the significance and role of surgery in medicine.
2. Understand basic knowledge of medical sciences.
3. Understand the classification of surgery (abdominal, laproscopic, adrenal, liver..etc).
4. Understand recommended anesthesia and requirements.
5. Understand surgical site infections & prevention.
6. Understand the relationship of surgical site infections with other disciplines.
7. Update general surgical procedures and techniques applied to patients in emergency situations due to upper and lower gastrointestinal bleeding.
8. Update general surgical procedures and techniques applied to patients in emergency situations due to acute mesenteric ischemia
9. Identify the surgical requirements / assessments according to different age groups i.e (infancy, childhood, adolescence, adult year & aging).
10. Describe time & Energy Management.
11. Explain the indications and clinical features of peritoneal carcinomatosis surgery.
12. Understand the suturing skills, their techniques & removing sutures.
13. Clinical Surgery Practice Scenarios & other aspects to lump, swelling, ulcer, lymphatic system, cardiovascular system, joints, Head injuries & Abdominal injuries.

SCHEME OF STUDIES

Diploma in Clinical Nutrition

No.	Modules	Theory	Practical	Credit Hours
1	Introduction to Surgery	3	1	4
2	Introduction to Human Anatomy	2	1	3
3	Human Physiology	2	1	3
4	Fundamental Principles of Surgery	3	1	4
5	Shock & Blood transfusion	3	1	4
6	Wounds Management	6	1	7
7	Surgical Infections	5	2	7
8	Basic Surgical Skills	2	1	3
9	Pediatric & Laparoscopic Surgery	4	1	5
10	Robotic Surgery	3	1	4
11	Oncology	6	2	8
12	Patient Investigation & Diagnosis	3	2	5
13	Operative Aspects	8	3	11
14	Clinical Surgery Practice Scenarios	1	3	4
15	Surgical Examinations	1	4	5
16	Suturing Skills	3	3	6
17	Entrepreneurship	3	1	4
18	Research Project / Internship	0	3	3
	Total	58	32	90

Note:

- 1) 58 Hours for Theory + 32 Hours for Practical = 90 Credit Hours
- 2) Research Project will be completed during whole session & session marks will be awarded according to performance of the student.
- 3) An assessment test (15/50 passing marks) and tasks related to practicals will be conducted in each module. Final Assessment (40/100 passing marks) and project submission will be submitted in the end of session. Then, students will get diploma (issued by Medicpro UK Authority), Recommendation Letter & Academic Transcript on your home address.

Practical List

1. History of surgery
2. Assess the nutritional status by weight and height of a person using (BMI).
3. Assess to prepare a patient for surgery.
4. Calculate the Maintenance Fluid Calculations.
5. Calculate fluid for 60 kg patient preoperatively
6. Assess fluid resuscitation in burn patients by parkland formula.
7. Assess intraoperative fluid dosing in adult patients.
8. Assessment of surgical stress during general anaesthesia.
9. How calculating the true volume of blood loss on the background of the physiological loss of liquids in practice.
10. Prepare a Diet plan for a preoperative and postoperative patient.
11. Conduct a virtual or physical market survey for the procurement of quality raw materials by keeping in mind the retail and whole sale price being cost effective. (Enlist sutures

products with indications & cost prices).

12. Examine a patient aspects to surgical sutures (via surgical practice kit).
13. Principles and interpretation of conventional and advanced radiographic procedures.
14. Examine a Pre-operative assessment and management (diabetes mellitus)
15. Examine a intraoperative assessment and care (anaesthesia & infection risk)
16. Examine a Post-operative assessment and management (abdominal surgery)
17. Plan/design food menus for different age groups as per nutritional value & rehabilitation management.
18. Prepare clinical presentations, ward rounds , research project.