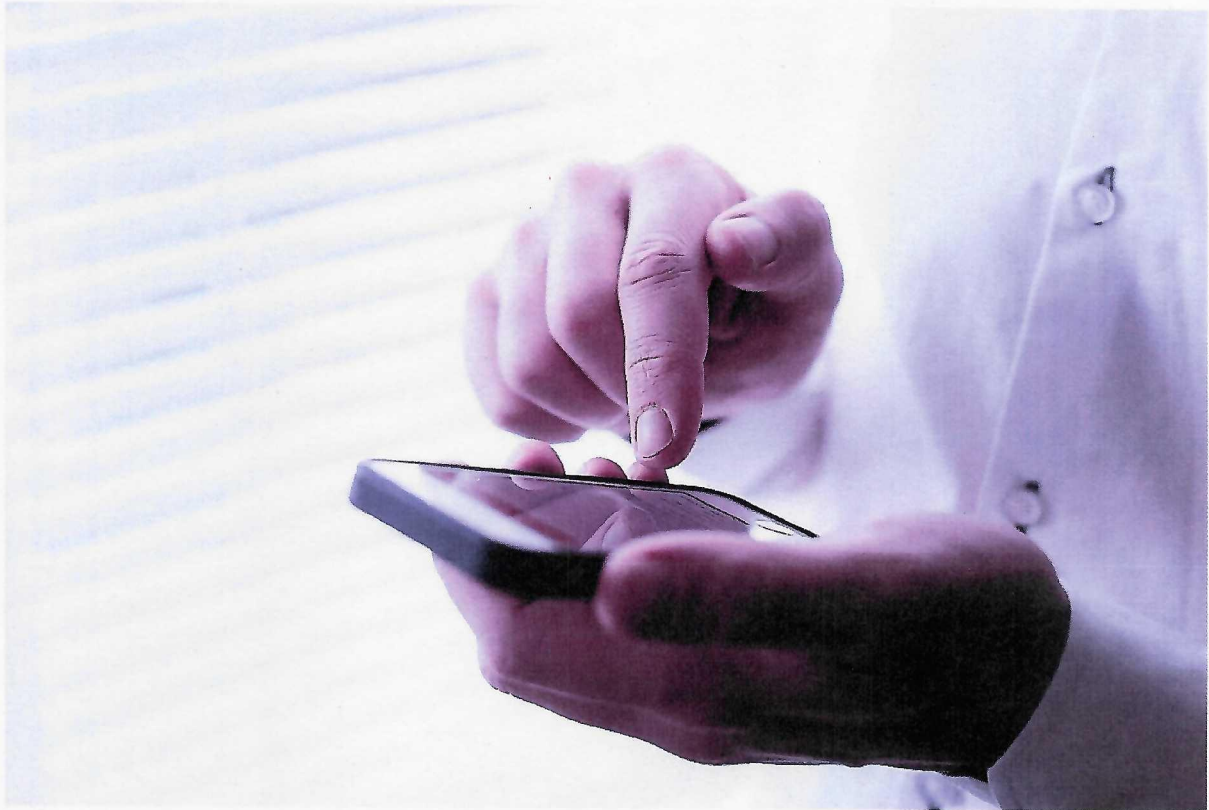


# Syllabus for MS (General Surgery) Programme



**Guru Gobind Singh Indraprastha University**

A State University established by the Govt. of NCT of Delhi

**University School of Medicine and Allied Health Sciences**

# MS GENERAL SURGERY

(sign pending  
in each  
paper)

## Programme Objectives

At the end of postgraduate training the student should be able to:-

- Practice his speciality ethically
- Demonstrate sufficient understanding of basic sciences related to his speciality.
- Diagnose and manage majority of conditions in his speciality (clinically and with the help of relevant investigations)
- Plan and advise measures for the prevention and rehabilitation of patients belonging to his speciality
- Play the assigned role in the implementation of National Health Programs
- Demonstrate competence in basic concepts or research methodology
- Develop good teaching skills

## Specific learning objectives

- a) **Theoretical knowledge:** A student should have fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology as applied to his speciality. He/she should acquire in-depth knowledge of his subject including recent advances. He should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.
- b) **Clinical/Practical skills:** A student should be expert in good history taking, physical examination, providing basic life support and advanced cardiac life support, common procedures like FNAC, Biopsy, aspiration from serous cavities, lumbar puncture etc. He/she should be able to choose the required investigation.
- c) **Research:** He/she should know the basic concepts of research methodology, plan a research project and should know how to consult library. Basic knowledge of statistics is also required.
- d) **Teaching:** Should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.

## Postgraduate Training

Didactic lectures are of least importance; seminar, journal clubs, symposia, revises and guest lectures should get priority for theoretical knowledge. Bedside teaching, grand rounds, interactive group discussions and clinical demonstrations should be the hallmark of clinical/practical learning. Student should have hand-on training in performing various procedures (medical/surgical concerning his subject) and ability to interpret various test/investigations. Exposure to newer specialized diagnostic / therapeutic procedures concerning his subject should be given.

Clinical Posting

Syllabus of M.C.I (M.S. Gen. Surgn)  
revised by H. G. A.

1. A major tenure of posting should be in General Surgery. It should include care of inpatients, out-patients, special clinics and maintenance of case records for both in and out patients.
2. Exposure to the following areas should be give:-
  1. Surgical ICU – Identify and rectify electrolyte disturbance and acid base imbalance.
  2. Cardiopulmonary resuscitation and endotracheal intubation
  3. Respiratory insufficiency – interpretation of blood gas analysis
  4. First-aid fracture management

If these services are not provided by the Deptt. Of General Surgery and these are separate independent deptts, then two weeks posting in each of these areas should be done.

#### Rotation of posting

Inter-unit rotation in the department should be done for a period of up to one year (divided during the first year and their year while candidate stays in the parent unit through out the duration of his thesis work.

#### Clinical meetings

There should be intra- and inter-departmental meetings for discussing the uncommon / interesting medical problems.

Each student must be asked to present a specified number of cases for clinical discussion, perform procedure /tests / operations / present seminars / review articles form various journals in inter-unit/interdepartmental teaching sessions. They should be entered in a Log Book and signed by the authorized teacher and HOD.

Thesis writing: Thesis writing is compulsory

Presentation/publication of papers in conferences will be desirable

Teaching: Each PG student will be required to teach undergraduate (clinical demonstration) at least 20 sessions.

**Thesis, to be submitted by each candidate at least 6 months before the commencement of theory examination:**

#### **PAPER (Theory)**

- 1 Basic Sciences
- 2 Principles and Practice of Surgery
- 3 Principles and Practice of Operative Surgery
- 4 Recent Advances

#### **Practicals**

3-4 clinical cases

Interpretation of Dates, clinical problems, X-rays, instruments and OSCE (Clinical Problems)

Vive-Voce

Due weightage should be given to Log Book records and day-to-day observation during the training.

## **COURSE CONTENTS**

### **General topics**

1. History of medicine with special reference to ancient Indian texts.
2. Health economics – basic terms, health insurance.
3. Medical sociology, doctor-patient relationship, family adjustments in disease, organizational behavior, conflict resolution.
4. Computers – record keeping, computer aided learning, virtual reality, robotics.
5. Hazards in hospital and protection  
Aids, hepatitis B, tuberculosis, radiation, psychological
6. Environment protection – bio-medical waste management.
7. Disaster management, mass casualties
8. Medical audit, evidence based medicine, quality assurance.
9. Concept of essential drugs and rational use of drugs.
10. Procurement of stores and material management  
Personal management
11. Research methodology-library consultation, formulating research, selection of topic, writing protocol thesis, ethics.
12. Bio-medical statistics, clinical trials.
13. Medical ethics
14. Consumer protection.
15. Newer antibiotics  
Problem of resistance
16. O.T. design, technologies, equipment.
17. Advances in imaging technologies
18. Response to trauma  
Sepsis – SIRS
19. Critical care in surgical practice

20. Wound healing
21. Fluid and electrolyte balance
22. Nutrition
23. Blood transfusion
24. Nosocomial infection
25. Brain death

Cadaveric organ retrieval

### **Systemic Surgery**

A list of topics or sub-topics in systemic surgery does not appear to be required. A standard textbook may be followed, which will also identify the level of learning expected of the trainees.