



# **College of Physicians and Surgeons of Mumbai**

## **Syllabus for CPS-PG-Course**

### **DGS - DIPLOMA IN GENERAL SURGERY**

**College of Physicians and Surgeons of Mumbai**

CPS House, Dr. E. Borges Marg, Parel, Mumbai – 400012.

## **DGS - DIPLOMA IN GENERAL SURGERY**

### **COURSE DESCRIPTION**

**Eligibility :** A candidate should possess MBBS degree/ equivalent degree as per provisions of Indian Medical Council Act.

**Duration :** 2 Years

GENERAL SURGERY INCLUDES SURGICAL PATHOLOGY AND APPLIED ASPECTS OF BASIC MEDICAL SCIENCES.

During the training period, efforts are always made that adequate time is spent in teaching the students skill required for performing basic surgical procedures and making them accustomed to handling difficult trauma and critical patients.

Theory

Basic sciences

Gross and radiological anatomy of all parts

Physiology of major systems

Patho-physiology of common surgical diseases

Microbes of surgical importance, their properties

Ethical issues

Diagnostic and interventional radiology.

Preparing a patient for surgery

Anesthesia and pain management

Acute life support and critical care

Fluid and Electrolyte balance and transfusion products

Nutrition

Wounds, tissue repair and scars

Basic surgical skills and anastomosis

Principles of laparoscopic surgery

Wound Infection

Sterile precautions and theatre safety Parasitic infections.

AIDS

Transplantation

Cyst, ulcers and sinus

Principles of Oncology

Day Surgery

An approach to surgical audit

Surgical ethics

Clinical trials and statistics

Plastic & vascular surgery with special reference to vessel repair.

Burns

Accident and Emergency Surgery

Warfare injuries

Craniocerebral trauma (Head Injury), Spinal Injuries

Elective Neurosurgery- Brain tumours, spinal cord tumours, hydrocephalus, spinal dysraphism

lip & palate Maxillofacial injuries

Oral and Oropharyngeal cancer

Disorders of salivary glands- Anatomy, clinical features, investigations, Examination, Medical and surgical treatment of stone, infection and Tumour in the salivary glands.

Pharynx, larynx and neck-Anatomy and physiology clinical features, investigations, diagnosis and emergency treatment of airway obstruction and tumours

Thyroid- Development and anatomy, physiology and investigations, medical and surgical treatment of thyroid problems

Parathyroid and adrenal glands- Surgical concept of parathyroid and adrenal disorders, investigations, role of surgery, management of various cancers

Breast- Surgical anatomy, investigations, anomalies, management of benign and malignant breast disorders.

Thorax-Surgical anatomy and physiology, investigations, role of surgery In Management of chest trauma and surgical oncology as applied to chest surgery.

Cardiac Surgery-Role of surgery in cardiac diseases, investigations, Management

Arterial disorders-Nature of occlusive arterial diseases, acute arterial occlusion, severely ischemic limb, aneurysm diseases, clinical features, investigations, treatment options

Venous disorders-Venous anatomy, physiology, varicose veins, DVT, Venous insufficiency and ulcers

Lymphoedema-Functions, development, causes, clinical features investigations treatment.

Esophagus-Anatomy, physiology, clinical features, investigations, treatment of benign and malignant disorders

Stomach and Duodenum-Anatomy and pathophysiology, clinical features, investigations, management of benign and malignant disorders Liver Anatomy, clinical features, investigations management of liver trauma, infections, tumours

Spleen- Anatomy, pathology, clinical features investigations, Management of splenic trauma

Gall bladder and bile ducts-Surgical anatomy, physiology, clinical features, investigations, treatment of benign and malignant disorders

Pancreas

Peritoneum, Omentum, mesentery and retroperitoneal space

Small and large intestines

Intestinal Obstruction

Vermiform Appendix

Rectum

Anus and anal canal

Hernias, umbilicus and abdominal wall

Genitourinary system: Urinary symptoms, investigation of the urinary tract and anuria, kidney and ureters, urinary bladder, prostate and seminal vesicles, urethra and penis, testis and scrotum

Postoperative care

Pediatric Surgery: Preparation of Pediatric Surgery patients pre & postoperative, Soft tissue tumour, Causes of Neonatal Obstruction, Anorectal malformation, Hypertrophic Pyloric

stenosis, Undescended Testis, Hirsch spring's disease, Oesophageal atresia with tracheo-  
esophageal fistula, Wilms tumour, Malrotation of gut

### Practical

History and examination: History taking and examinations as relevant to General Surgery.

Monitoring Skills: Temperature recording, capillary blood sampling, arterial blood sampling, venous blood sampling, cardio-respiratory monitoring, pre & post-operative patient monitoring and management accordingly.

Therapeutic Skills: Tracheostomy, chest tube insertion, suturing, catheterization, Ryle's tube insertion, airway management, nasogastric feeding, endotracheal intubation, cardiopulmonary resuscitation, venipuncture and establishment of vascular access, administration of fluids,

blood, blood components, parenteral nutrition, common dressings, abscess drainage and basic principles of rehabilitation, bed sores management

Diagnostic Skills: Interpretation of X-rays/CT/MRI, ultra-sonographic abnormalities and laboratory tests.

Surgical Skills: Observation of general layout and working of OT, understanding the importance of management and maintaining the sanctity of OT, scrubbing, working and sterilization of OT instruments, equipment's eg. electrocautery etc., Laparoscopic Set, shifting of OT patients, pre-operative work up of patients, acquisition of basic surgical skills to perform minor/medium surgeries independently (suprapubic cystostomy, Urethral Dilatation, Cystolithotomy, Varicocele, Orchiectomy, Ureter lithotomy, Excision of Cyst & I&D, Excision of Breast Lump, Surgery of Hydrocele, appendectomy, Herniotomy, Hernia repair, umbilical hernia, Exploratory laparotomy for perforation, Haemorrhoidectomy, Fistulectomy, Fissurectomy Circumcision and Skin grafting

Assist in major surgeries, handling of all types of surgical emergencies, post Operative management of patient in recovery, ICU and Ward.

**DGS - DIPLOMA IN GENERAL SURGERY****EXAMINATION PATTERN****Theory Examination:**

<b>PAPER I</b>	<b>PAPER II</b>	<b>PAPER III</b>
Basic Sciences	Operative Procedures	Applied Sciences & Recent Advances
<b>Section I</b>	<b>Section I</b>	<b>Section I</b>
Q.1. 10 Marks Q.2. 10 Marks Q.3. 10 Marks Q.4. 10 Marks Q.5. 10 Marks <b>Total 50 Marks</b>	Q.1. 10 Marks Q.2. 10 Marks Q.3. 10 Marks Q.4. 10 Marks Q.5. 10 Marks <b>Total 50 Marks</b>	Q.1. 10 Marks Q.2. 10 Marks Q.3. 10 Marks Q.4. 10 Marks Q.5. 10 Marks <b>Total 50 Marks</b>
<b>Section II</b>	<b>Section II</b>	<b>Section II</b>
Q.6. 10 Marks Q.7. 10 Marks Q.8. 10 Marks Q.9. 10 Marks Q.10. 10 Marks <b>Total 50 Marks</b>	Q.6. 10 Marks Q.7. 10 Marks Q.8. 10 Marks Q.9. 10 Marks Q.10. 10 Marks <b>Total 50 Marks</b>	Q.6. 10 Marks Q.7. 10 Marks Q.8. 10 Marks Q.9. 10 Marks Q.10. 10 Marks <b>Total 50 Marks</b>
Section I + II = 100 Marks	Section I + II = 100 Marks	Section I + II = 100 Marks
<b>Total Theory = 300 Marks, Passing = 150 (i.e. 50%) Marks in aggregate</b>		

<b>Practical Examination:</b>		<b>Marks</b>
<b>Paper - IV</b>	Clinical Practical	100
<b>Paper - V</b>	Oral & Viva	100
<b>Paper - VI</b>	Case	100
<b>Total Marks</b>	<b>(Aggregate marks for passing is 50% out of total.)</b>	<b>300</b>