

**STATE MEDICAL FACULTY OF WEST BENGAL**

**SYLLABUS FOR DIPLOMA IN OPERATION THEATRE TECHNOLOGY**

**Preliminary Course (1 year)**

- **Theoretical Classes (60 hours)**

**A. ANATOMY- 8 CLASSES**

1. Introduction to Human Anatomy
2. Skeletal system- bones, joints muscles of extremities.
3. Abdominal wall, Chest wall, Back, head & Neck.
4. Heart & vascular system – arteries, veins, lymphatics.
5. Airway, Larynx, Trachea, Bronchi, Lungs, Mediastinum, pleum, Diaphragm
6. GL Tract, Liver, Spleen, Pancreas, Peritoneum.
7. Kidney, Ureter, Bladder, Prostate, Genital Organs (M/F)
8. Thyroid, Breast, Brains, Spinal Cord & Nerves.

**B. PHYSIOLOGY- 8 CLASSES**

1. Introduction
2. Circulatory system
3. Respiratory system
4. Gastrointestinal system
5. Hepatobiliary & Pancreas
6. Excretory system & skin
7. Reproductive, Endocrine and Metabolic system
8. Musculoskeletal & Neurological system, Eye & ENT

**C. BIOCHEMISTRY- 4 CLASSES**

1. Introduction
2. Metabolism of Carbohydrate, Protein, Fat
3. Common biochemical examinations.
4. Collection and sending of materials

**D. PHARMACOLOGY – 4 CLASSES**

1. Introduction – IV fluids, Blood and it's products, surgical nutrition (Enteral & Parenteral)
2. Analgesics & Antipyretics
3. Antibiotics and Disinfectants
4. Anaesthetic agents

## **E. PATHOLOGY – 8 CLASSES**

1. Introduction
2. General Pathology- infective and neoplastic disorders
3. General Pathology- cystic, degenerative Metabolic & Endocrine disorders
4. Collection and sending of materials for examination Diagnostic modalities – Cytology/ Histopathology
5. Systemic pathology – Cardiovascular & Respiratory system.
6. GI & Hepatobiliary
7. Excretory and Reproductive system.
8. Musculoskeletal, Eye, ENT.

## **F. MICROBIOLOGY- 4 CLASSES**

1. Introduction to common pathogens
2. Bacterial & Viral disorders- transmission & prevention
3. Principles of diagnosis & sending of materials.
4. Sterilization and other preventive aspects.

## **G. PRINCIPLES AND PRACTICES OF SURGERY – 10 CLASSES**

1. Introduction
2. Nasogastric tube, IV, line, Catheters, Drains
3. Trauma & Infective disorders.
4. Common neoplastic & Cystic disorders
5. Common operations – GL System
6. Operations on Hepatobiliary & Pancreas, Spleen
7. Operations on Excretory and Reproductive system.
8. Operation on face, neck, breast
9. Operations for Hernia and Hydrocele
10. Anorectal operations

## **H. STERILIZATION, DISINFECTION AND WASTE DISPOSAL – 4 CLASSES**

1. Sterilization of equipments and instruments. CSSD
2. OT Sterilization.
3. Prevention of Transmission & care of Immuno compromised Waste Disposal

## **I. BASICS OF ANAESTHESIS & CPR – 8 CLASSES**

1. Principles of GA
2. Regional Anaesthesia
2. Anaesthetic machine & related matters
3. Common medicines used in anaesthesia
4. Emergency drugs & Emergency Tray/ Trolley
5. Importance of monitoring in Pre & Post operative patients
6. Maintenance of airway & Basics of Critical Care
7. CPR

## **J. COMPUTER AND DATA PROCESSING – 2 CLASSES**

<b>II. Practical Classes and demonstration -</b>	<b>120 Hours</b>
A) General Surgery Elective OT -	80 Hours
B) General Surgery Emergency OT -	20 Hours
C) General Surgery Minor OPD OT-	10Hours
D) General Surgery Emergency casualty OT-	10 Hours
<b>Total -</b>	<b>120 Hours</b>

### **Final Course (1 Year)**

#### **1. Theoretical Classes (60 Hours)**

- A. Equipments- Know-how and maintenance of OT Tables, OT. Lights, Diathermy, Sucker Machine etc. 3 Classes
- B. General Instruments – Maintenance, Cleaning, Sterilization 3 Classes
- C. Endoscopic Instruments including Laproscopy Set- Maintenance, Cleansing, Sterilization 3 Classes
- D. Laying of Instrument Trolleys- General Surgery 4 Classes
- E. Monitors, Pulse Oximeters, Syringe Pump, Infusion Pump 2 Classes
- F. Ventilators and other critical care related matters 3 Classes
- G. Sterilization of OT, Concept of Modular OT, Laminarair flow CSSD 2 Classes

**K. SPECIAL SURGERIES: COMMON OPERATIONS AND LAYING OF INSTRUMENT TROLLEYS (40 CLASSES)**

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|---------------------------------------|-------------|
| 1. Gynaecology & Obstetrics           | - 4 Classes |
| 2. Orthopaedic Surgery                | - 4 Classes |
| 3. Urological Surgery                 | - 4 Classes |
| 4. Paediatric Surgery                 | - 4 Classes |
| 5. Cardio Thoracic & Vascular Surgery | - 4 Classes |
| 6. Plastic Surgery                    | - 4 Classes |
| 7. Neurosurgery                       | - 4 Classes |
| 8. Ophthalmology                      | - 4 Classes |
| 9. ENT                                | - 4 Classes |
| 10. General Emergency (Casualty OT)   | - 4 Classes |

**Practical Classes and demonstration- 120 Hours**

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|-----------------------------|----------|
| A) Gynaecology & Obstetrics | 30 Hours |
| B) Orthopaedic Surgery      | 20 Hours |
| C) Urology                  | 10 Hours |
| D) Paediatric Surgery       | 10 Hours |
| E) CTVS                     | 10 Hours |
| F) Plastic Surgery          | 10 Hours |
| G) Neuro Surgery            | 10 Hours |
| H) Ophthalmology            | 10 Hours |
| I) ENT                      | 10 Hours |

**TOTAL - 120 Hours**

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