

# CERTIFICATE COURSE IN OPERATION THEATRE ASSISTANT

1. Duration of course :- One year
2. Eligibility :- 12<sup>th</sup> Pass (Any Faculty)
3. Medium of course:- Marathi
4. Course fee:- 5,000/-
5. Teaching Staff Qualification: - Surgeon, Anesthesiologist, and Microbiologist.
6. Examination Pattern
  1. Theory Paper-I 80 Marks
  2. Theory Paper-II 80 Marks
  3. Theory Paper-III 80 Marks
  4. Theory Paper-IV 80 Marks
7. Practical:- 80 Marks
  1. Journal 40 Marks
  2. Seminar/Conference 20 Marks
  3. Computer Practical 20 Marks
  4. Oral 20 Marks
8. Project Reports 100 Marks
9. Institute Eligibility to conduct course: - Institute should have Minimum 30 bedded working Hospital with well-equipped major and Minor operation theatre.

# Paper I

## Applied Anatomy & physiology

### I) Applied Anatomy

#### Introduction of terms used

1. Organization of Human Body
2. Skin
3. Skeletal System
4. pulmonary System
5. Nervous System
6. Alimentary System
7. Unary System
8. Genital System
9. Cardio-Vascular System
10. Special areas in Anatomy
  - a. Abdominal Wall
  - b. Inguinal region
  - c. Scalp
  - d. Perianal region
  - e. Palm
  - f. Neck

### II) Applied Physiology

1. Wound healing
2. Respiratory System
3. Cardio Vascular System
4. Liver
5. Kidneys
6. Nervous System
7. Blood Clotting Mechanism
8. Blood Transfusion
9. pregnancy

## **Paper – II**

### **Microbiology & Pharmacology, Radiology, Pathology**

1. Types of Microbes
2. Classification
3. Pathogenic & Non-Pathogenic Organisms
4. Organisms Inside the Human Body
5. Environmental Organisms
6. Effect of Organisms
7. Modes of growth of organisms
8. Pathology of Infection
9. Nosocomial Infection
10. Bacteriostatic & Bacteriocidal Agents
11. Disinfectants
12. Sterilization
13. Cleaning Sterilization & care of Rubber goods, Enamel wares, Instruments, Glasswares  
S.S. goods, Linen, Furniture, etc.
14. Cap, Mask, Scrubbing, Washing, Wearing of gown, gloves etc.
15. Setting of Drums, Autoclaving
16. Antibiotics

# **Paper III**

## **Surgery & Operation Theatre Technique**

### **I) Introduction to operations**

1. What is Health?
2. What is Disease? –modalities of treat of Disease
3. What is operation?
4. What is the need for operation?
5. Types of Operation
6. Procedure of Operation

### **II) Design & contents of O.T.**

1. What is Operation Theatre?
2. General Design of O.T.
3. Special Design & contents of O.T.
4. Introduction to Instruments, Equipments, Materials Lamps, Linen etc. in an O.T.
5. Details, Uses & Functioning of Instruments, Equipments etc. & Storage of them.

### **III) Sterilization**

1. Technique
2. Equipments
3. Agents
4. Disinfection of O.T.

### **IV) Anesthesia**

1. An Introduction
2. Types of anesthesia
3. Equipments, Materials, Drugs
4. Hazards

## **Paper – IV**

### **Pre-operation Method**

1. Preparation of Theater for Operation
2. Preparation of Patient for Operation
3. Preparation for Anesthesia
4. Duties of Nurses & Other Staff
5. Papers, Consent forms & Registers
6. Checking of drum, trolleys, Instruments before operation
7. Positions of the patient
8. Helping the Anesthetist for Induction
9. Setting & Trolley
10. Painting & Draping
11. Arranging the Instruments

#### **I. The operation proper**

1. Assisting the surgeon

#### **II The Immediate Post-operation period**

1. Post operation catheter, R.T, Tubes Fixations Dressing
2. Plastering
3. Helping the Anesthetist for bringing the patient out
4. Preservation of Specimens
5. Disposal of wastes
6. Special Instruments – special care
7. Preparation for next case.

#### **III. Some special Cases**

1. Management of Intra-Operative Emergencies
2. Preparation of some special trays e.g. – Venesection, Suturing I & D, Tracheostomy, etc

## **Practical Training One Year in following depart**

- 1) Eye & ENT
- 2) General surgery
- 3) Gynaec
- 4) Pediatric
- 5) Dental
- 6) Orthopedic