

CURRICULUM

2nd, 3rd, & 4th Semester

DIPLOMA COURSE

ANAESTHESIA TECHNOLOGY

**KHYBER PAKHTUNKHWA, MEDICAL
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2nd SEMESTER ANESTHESIA.

Theory

Paper A –B Anaesthesia Related Anatomy & Physiology
No. 1 RESPIRATORY SYSTEM.

Nose
Larynx.
Pharynx.
Trachea.
Lungs.
Tidal Volume
Minute Ventilation.

No.2 CARDIOVASCULAR SYSTEM.

Heart
Heart valve.
Cardiac cycle
Heart sound.
Cardiac output
Circulation.
Heart rate.
B.P Monitoring (Palpatry Auscultatory Method)

No.3 NERVOUS SYSTEM.

BRAIN-----> Important centers
Vertebral column.
Spinal cord
CSF

3rd Semester Theory
 Paper A Anesthesia related Pharmacology
 Paper B Anesthesia related Equipment & Procedure

TIME

II PHARMACOLOGY

Analgesics

- Opiates
- Morphine
- Pethidine
- Fentanyl
- Pentazocine
- Buprenorphine

Local Anesthetics.

Xylocaine

02 hours

side effects pre

Bupivacaine

3. General Anesthetics

14 hours

Intravenous

Inhalation

Fluthane(halothane)

Isofluorine

Nitrous Oxide

4. Muscle relaxants/Reversal Agent

08 hours

Depolarizing.

Non Depolarizing.

Neostigmin

Pyridostigmin.

Atropin

5. Pre Medication

Diazepam

Flurazepam

Midazolam

Atropine.

6. Isotopes

Dopamine

Dobutamin

Adrenalin.

7. Equipotent.

16 hours

Anesthesia Machine

Ventilator

Suction Apparatus

Machine Set up and Cheeking procedure

Drug solution make up

Labeling of syringes

Care and cleaning of equipment

Anesthesia Circuits

Magill

Bain

Pediatric

Closed Circuit

4th Semester theory

Paper A Anesthesia Management -I

Paper B Anesthesia Management-II

CLINICAL SITUATIONS

TOTAL 52 HOURS

- Treatment of shock	02 hours
- Full Stomach.	02 hours
- Difficult air way	08 hours
- Blood Transfusion	08 hours
- Anesthesia and co-existng diseases	08 hours
- Hypoxia	26 hours
- C.P.R	04 hours

Care and maintenance of equipment

1. Set up Machine and instrument
2. Mix drugs and label
3. Keep record of case and any complication
4. Administer General Anesthesia under supervision of drugs used
Anaesthesia.