CURRICULUM

2nd, 3rd, & 4th Semester

DIPLOMA COURSE

ANAESTHESIA TECHNOLOGY

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2nd SEMESTER ANESTHEIA.

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
3<sup>rd</sup> Semester Theory
Paper A Anesthesia related Pharmacology
Paper B Anesthesia related Equipment & Procedure

II PHARMACOLOGY

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

Local Anesthetics: 02 hours
- Xylocaine (side effects pre)

Bupivacaine: 14 hours

3. General Anesthetics
- 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-existing 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.