Course Title: ANESTHESIA TECHNIQUES-I AND CLINICAL

PRACTICE

Study Hours: 60+160 Marks

 Paper
 : 1
 Theory: 120

 Term
 : 3rd
 Practical: 30

Time: 3Hrs

Course contents STUDY HOURS

(THEORY+PRACTICAL)

A. SPEICALANATOMY 30+40

A 1. Respiratory system

A1.1 Mouth

A1.2 Nose

A1.3 Pharynx

Nasopharynx

Oropharynx

A1.4 Larynx

A1.4.1 Cartilages

A1.4.2 Ligaments

A1.4.3 Muscles

External

Internal

A1.5 Blood supply

A1.6 Nerve supply

A1.7 Trachea & Bronchial tree

A1.7.1 Division

A1.7.2 Blood supply

A1.7.3 Nerve supply

A1.8 Mediastinum

A1.8.1 Parts

A1.8.2 Contents

A1.9 Lungs

A1.9.1 Structures/ lobes

A1.9.2 Blood supply

A1.9.3 Nerve supply

A 2. Cardiovascular system

A2.1 Heart

Valves

Conducting system

A2.2 X-ray marking of heart borders

A 3. Nervous system

A3.1 Brain & spinal cord

A3.2 Vertebral column

	A3.3 Cranial nerves A3.4 Spinal nerves A3.5 Autonomic nervous system (Brief Introduction) Sympathetic N.S Parasympathetic N.S		
В.	SPECIAL PHYSIOLOLGY		20+30
В 1.	Respiratory system B1.1 Control of respiration B1.2 Mechanics of respiration B1.2.1 Tidal volume B1.2.2 Residual volume B1.2.3 Vital capacity B1.2.4 Dead space Anatomical and physiological B1.3 Respiratory reflexes Cough reflex Laryngospasm B1.4 Gas exchange & transport		
B 2. C	ardiovascular system B2.1. Heart rate regulation B2.2 Coronary circulation B2.3 Cardiac cycle B2.4 Cardiac output & regulating factors B2.5 Arterial blood pressure & regulating factors B2.6 ECG		
В 3.	Nervous system B3.1 Brain stem functions B3.2 Cerebrospinal fluid (CSF) B3.3 Cerebral circulation B3.4 Synapse B3.5 Neuromuscular junction		
C.	ZONES OF INTEREST TO ANESTHETIST (Briefly) C1 Diaphragm C2. Intercostals space C3. Ante-Cubital fossa 4. C4. Thoracic inlet		10+10
E.	Practical	80	
	 E1. Introduction to Anesthesia Department E2. Introduction to Electro – Medical Equipment used in Anesthesia E3. Maintenance of Electro-Medical Equipment 		

- E4. Operating of Electro-Medical Equipment
- E5. Disinfections of Equipment
- E6. Introduction to Anesthesia
- E7. Scrubbing and its methods
- E8. Safety and precaution
- E9. Patient preparation before operation
- E10. Stages of Anesthesia
- E11. Patient management during Anesthesia
- E12. Postoperative care and management
- E13. Mix drugs & label
- E14. Keep record of cases & any complications

Recommended Books:

- 1. A practice of Anesthesia Wylie And Churchill Davidson's
- 2. Hazards And Complications of Anesthesia by T.H Taylor
- 3. Practical Anesthesia for Surgical Emergency by Peter W. Jackson
- 4. Anatomy and Physiology for Nurses by Evelyn C.Pearce
- 5. Clinical Anesthesiology by Morgon Publisher MC Graw Health 3rd Edition in 2005
- 6. Pharmacology by Shameem

Reference Books:

- 1. Pharmacology and Medical Physiology in Anesthesia by Robert K
- 2. Text of Anesthesia by Alan R. Atkin by Churchill
- 3. Clinical Anatomy for medical students by Richard Smell

Course Title: Anesthesia TECHNIQUES-II AND CLINICAL

PRACTICE

Study Hours: 60+160 Marks

Pape : 2 Theory: 120

Term: 3rd Practical: 30

Time: 3Hrs STUDY HOURS

Course contents (THEORY+PRACTICAL)

A. PHARMACALOGY

60 + 80

- **A1. NARCOTIC ANALGESICS:** (Classification mode of action, indication and adverse effects)
 - A1.1 Morphine
 - A1.2 Pethidine
 - A1.3 Fentanil
 - A1.4 Remifentanil
 - A1.5 Pentazocine
 - A1.6 Buprenorphine
 - A1.7 Nalbuphine
 - A1.8 Naloxone
 - A1.9 Tramadol
- A2. Non-Narcotic Analgesics(Classification mode of action, indication and adverse affects)
 - A2.1 Diclofenic
 - A2.2 Aspirin
 - A2.3 Piroxicam
 - A2.4 Ketorolac
 - A2.5 Celecoxib
 - A2.6 Meloxicam
- A3 ANEASTHETICS: (Classification mode of action, indication and adverse affects)

A3.1 Local Anesthetics

- A3.1.1 Xylocaine
- A3.1.2 Bupivacaine
- A3.1.3 Rupivacaine

A3.2 GENERAL ANEASTHETICS

- A3.2.1 Inhalational anesthetics:
- A3.2.2 Halothane
- A3.2.3 Isofurone
- A3.2.4 Enflurane
- A3.2.5 Sevofurane
- A3.2.6 Nitrous oxide (N2 O)

A3.3 Intravenous anesthetics:

- A3.3.1 Thiopental sodium
- A3.3.2 Propufol
- A3.3.3 Etomidate
- A3.3.4 Ketamine

A4 MUSCLE RELAXANTS:

(Classification mode of action, indication and adverse affects)

B. Practical 80

- B1. Introduction to Anesthesia Department
- B2. Introduction to Electro Medical Equipment used in Anesthesia
- B3. Maintenance of Electro-Medical Equipment
- B4. Operating of Electro-Medical Equipment
- B5. Disinfections of Equipment
- B6. Introduction to Anesthesia
- B7. Scrubbing and its methods
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- B9. Patient preparation before operation
- B10. Stages of Anesthesia
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Reference Books:

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