

College of Anaesthesiologists and Intensivists of Sri Lanka

Preparatory Course for

Selection examination MD Anaesthesiology

September - November 2024

On Zoom Platform

1st WEEKEND

Saturday 14th September

Saturday 14 September		
11.30 - 12.00 pm	Introduction	Prof Vasanthi Pinto Dr Lakmali Samaraweera
12.00 - 2.00 pm	Pharmacodynamics	Dr Jeevani Rajasinghe
2.00 - 5.00 pm	Principles of measurement/Graphs and exponentials	Dr P Warusawitharana

Sunday 15th September

8.00 - 10.00 am	Pharmacokinetics	Dr Gita Jayathilaka
10.00 - 12.00 pm	CT/MRI	Dr Bimal Kudavidanage
12.00 - 1.00 pm	BREAK	
1.00 - 3.00 pm	Haemodynamic monitoring/Measurement of blood pressure	Dr Senani Samarainghe

2nd WEEKEND

Saturday 28th September

12.00 - 3.00 pm	Biological potentials	Dr P Warusawitharana
3.00 - 4.00 pm	Compressed gases/Pressure regulators	Dr Janaki Arulmoli
4.00 - 6.00 pm	Anaesthetic Machine/Breathing systems and scavenging systems	Dr Chamil Perera

Sunday 29th September

8.00 - 10.00 am	Renal physiology and renal function tests	Dr Kesharie de Silva
10.00 – 11.00 am	Autonomic nervous system	Dr Chamil Perera
11.00 – 12.00 am	Temperature regulation	Dr Piyusha Jayawardena
12.00 - 1.00 pm	Cerebral Blood flow and ICP regulation	Dr Piyusha Jayawardena
1.00 - 1.30 pm	BREAK	

1.30 - 3.00 pm	Body fluids and fluid balance/ Concepts of fluid movement across capillaries/Electrolyte balance	Dr Thusitha Jayathilaka
3.00 – 4.30 pm	Gas and vapour analysis	Dr Nanditha Wanigasinghe

3rd WEEKEND

Saturday 12th October

12.00 -2.00 pm	Integrated CVS responses - Haemorrhage, Exercise and Valsalva maneuver	Dr Chamil Perera
2.00 - 4.00 pm	Statistics I	Dr Hemantha Kumarihamy

Sunday 13th October

8.00 - 10.00 am	Inhalational agents	Dr Sandya Somaweera
10.00 - 12.00 pm	Measurement of neuromuscular block and assessment of Awareness	Dr Haritha Dharmakeerthi
12.00 - 1.00 pm	BREAK	
1.00 - 3.00 pm	Acid base physiology	Dr Mithrajee Premarathna
3.00 - 5.00 pm	Lung mechanics/Gas exchange/Mixed venous oxygen	Dr Chandana Karunarathna

4th WEEKEND

Saturday 9th November

12.00 - 1.00 pm	Vaporizers/Humidifiers	Dr Charaka Yapa
1.00 - 2.30 pm	Temperature monitoring/Flow and volume	Dr Malin Gunawardena
2.30 – 5.00 pm	Statistics II	Dr Hemantha Kumarihamy

Sunday 10th November

8.00 - 9.00 am	Transducers	Dr Buddhika Vidanagama
9.00 -10.00 am	Control of BP	Dr Q Weerasingham
10.00 - 12.00 pm	Laser/Doppler/Ultra Sound	Dr Bimal Kudavidanage
12.00 - 1.00 pm	BREAK	
1.00 -3.00 pm	Pulse oximetry/Capnography	Dr Dimuthu Gunasena
3.00 - 4.00 pm	Vasoactive drugs & Inotropes	Dr Ashani Rathnayake

4.00– 5.00 pm	Blood gas electrode	Dr Chandana Nawarathna
5.00 – 6.00 pm	Cardiac output & Venous Return	Dr Chamil Perera

5th WEEKEND

Saturday 23rd November

12.00 - 1.00 pm	Anticoagulants/Ant platelet drugs and reversal agents	Dr Ashoka Wijayananda
1.00 - 3.00 pm	Recorders / Display Units II -	Dr Chandana Nawarathna
3.00 - 5.00 pm	Physiology of nerve and muscle/Neuromuscu lar transmission	Dr Dakshi Jayawickrama
5.00 – 6.00 pm	Isomerism	Dr Chamila Jayasekera

Sunday 24th November

8.00 -10.00 am	Physics Tutorial	Dr Buddhika Vidanagama
10.00 - 12.00 pm	Operating theatre pollution and hazards	Dr Bimal Kudavidanage
12.00 - 1.00 pm	BREAK	
1.00 - 3.00 pm	Gastrointestinal physiology/Liver/Coagulation	Dr Anura Abeysundara
3.00 - 5.00 pm	Physiology Tutorial	Dr Chandana Karunarathna
5.00 - 6.00 pm	Pharmacology Tutorial	Dr Hemantha Kumarihamy

6th Weekend

Saturday 7th December 2024

12.00 - 2.00 pm	Local Anaesthetics	Dr Gayani Walpola
2.00 - 4.00 pm	Electricity and electrical safety	Dr Anupa Herath
4.00 - 5.00 pm	Recorders / Display Units I	Dr Chandana Nawarathna

Sunday 8th December 2024

8.00 – 9.00 am	Neuromuscular blockers and reversal agents	Dr Gita Jayathilake
9.00 - 11.00 am	Endocrine system/Metabolic response to trauma	Dr Sagarie Ranasinghe

11.00 - 1.00 pm	Carriage of oxygen and carbon dioxide in blood/ Control of ventilation/ Foetal oxygenation	Dr Upul Ranjith
1.00 - 2.00 pm	BREAK	
2.00 - 3.00 pm	Antihypertensives/Antiarrhythmics	Dr Deepani Wijesinghe
3.00 - 5.00 pm	Opioids & antagonists/Non-opioid analgesics	Dr Harini Jagoda

Full course fee = Rs. 9,000 Physiology only = Rs 6,000

The course fee should be paid online at https://store.anaesthesia.lk/ CASH WILL NOT BE ACCEPTED.

This course is conducted online via Zoom. No refreshments will be provided.

Registration on or before 12th of September 2024

Advice to students: You are expected to read the above topics before attending the lectures and tutorials. Please inform us via email (office@anaesthesia.lk) of the areas that you find difficult to understand in advance, so that the lecturers can highlight more on those specific topics allocated to them.

HELPFUL REFERENCE MATERIAL

Physiology:

Guyton and Hall Textbook of Medical Physiology Ganong's Review of Medical Physiology West's Respiratory Physiology: The Essentials Nunn's Applied Respiratory Physiology

Principles of Physiology for the Anaesthetist (Peter Kam & Ian Power)

Pharmacology:

Stoelting's Pharmacology & Physiology in Anesthetic Practice

Pharmacology for Anaesthesia and Intensive Care (Tom Peck, Sue Hill [& Mark Williams])
Principles and Practice of Pharmacology for Anaesthetists (Norman Calvey, Norton Williams)

Physics & Clinical Measurements:

Basic physics and measurement in anaesthesia (Davis, [Parbrook] & Kenny)

Principles of Clinical Measurement (MK Sykes, MD Vickers, CJ Hull)

Ward's Anaesthetic Equipment

Anaesthesia Equipment (JA Dorsch, SE Dorsch)

Statistics at Square One

General:

Guide to the FRCA Examination - The Primary (RCoA)

BJA Education (formerly continuing Education in Anaesthesia, Critical Care and Pain)

Dr Lakmali Samaraweera,

Consultant Anaesthetist/ Secretary Education - COAISL

Office: 0112873300/ 0706182726 Email: office@anaesthesia.lk Website: https://anaesthesia.lk/

^{*} Physiology - Colour coded in orange