



COLLEGE OF ANAESTHESIOLOGISTS & INTENSIVISTS OF SRI LANKA
Preparatory Course for
Selection examination MD_{Anaesthesiology}

FEBRUARY – 2025
ON ZOOM PLATFORM

1st WEEKEND

1st February 2025 Saturday

12.00 – 12.30pm	Registration and Introduction	Prof Vasanthi Pinto Dr Lakmali Samaraweera
12.30 – 1.30 pm	Pharmacodynamics	Dr Jeewani Rajasinghe
1.30 – 2.30 pm	Flow and Volume	Dr Malin Gunawardena
2.30 – 4.30 pm	Graphs & Exponentials	Dr P Warusavitharana

2nd February 2025 Sunday

8.00 – 9.00 am	Control of Ventilation	Dr Upul Ranjith
9.00 – 10.00 am	Carriage of CO ₂ , Hypo and Hypercarbia	Dr Upul Ranjith
10.00 – 11.00 am	IV Anaesthetic Agents	Dr S Premakrishna
11.00 – 12.00 pm	Pharmacology of Inhalational Agents	Dr Deepani Wijesinghe
12.00 – 1.00 pm	Lunch	
1.00 – 2.00 pm	V/Q & Oxygenation	Dr Chandana Karunaratne
2.00 – 3.00 pm	ODC & O ₂ Carriage	Dr Chandana Karunaratne

2nd WEEKEND

15th February 2025 Saturday

12.00 – 2.00 pm	Acid base Balance	Dr Mithrajee Preamaratne
2.00 – 5.00 pm	Principles of Measurement	Dr P Warusavitharana

16th February 2025 Sunday

8.00 – 9.00 am	Signal Reproduction	Dr Buddhika Vidanagama
9.00 – 10.00 am	Transducers	Dr Buddhika Vidanagama
10.00 – 12.00 pm	Haemodynamic Monitoring	Dr Senani Samarasinghe
12.00 – 1.00 pm	Lunch	
1.00 – 3.00 pm	Neuromuscular Transmission	Dr Kavya Boteju
3.00 – 4.00 pm	Neuromuscular Blockers	Dr Gitanjali Jayathillake

3rd WEEKEND

1st March 2025 Saturday

11.30 – 12.30 pm	Theatre Pollution & Scavenging	Dr Bimal Kudavidanage
12.30 – 1.30 pm	Pressure Regulators	Dr Janaki Arulmoli
1.30 – 4.30 pm	Biological Potentials	Dr P Warusavitharana

2nd March 2025 Sunday

8.00 – 9.30 am	ECG Interpretation	Dr Manura Lekamwattage
9.30 – 11:00 am	Local Anaesthetics	Dr Gayani Walpola
11.00 – 12.00 am	Opioids & Antagonists	Dr Tharanga Perera
12.00 - 1.00 pm	Lunch	
1.00 - 2.30 pm	Pharmacokinetics	Dr Gita Jayathilaka
2.30 - 4.30 pm	Mixed Venous Oxygen	Dr Chandana Karunaratne

4.30 – 6.30 pm	Lung Mechanics	Dr Chandana Karunaratne
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4th WEEKEND

15th March 2025 Saturday

12.00 – 1.30 pm	Isomerism	Dr Chamila Jayasekera
1.30- 3.00 pm	Gas & Vapour Analysis	Dr Nandika Wanigasinghe
3.00 – 4.30 pm	Anticoagulants, Antifibrinolytics & Antiplatelets	Dr Anura Abeysundara

16th March 2025 Sunday

8.00 – 10.00 am	Renal Physiology	Dr Keshari de Silva
10.00 – 12.00 am	CVS Physiology	Dr Tithira Jayaweera
12.00 – 1.00 pm	Lunch	
1.00 – 2.00 pm	Control of Blood Pressure	Dr Queenie Veerasingham

5th WEEKEND

29th March 2025 Saturday

11.00 – 12.00 pm	Radiological Investigations in Anaesthesia and Intensive Care	Con. Radiologist/Dr Bimal Kudavidanage
12.00 – 1.00 pm	Anaesthetic Machine	Dr Vihara Dassanayake
1.00 – 2.00 pm	Antihypertensives	Dr Vihara Dassanayaka
2.00 – 4.00 pm	Methods of Sterilization	Dr Suharshana Jayasekera

30th March 2025 Sunday

9.00 - 10.00 am	Autonomic Nervous System	Dr Chamil Perera
10.00- 11.00 am	Physiology of Nerve & Muscle	Dr Amila Jayasinghe
11.00- 12.00 pm	Inotropic & Vasoactive Agents	Dr Dilrukshi Perera
12.00 - 1.00 pm	Lunch	
1.00 – 2.30 pm	Measurement of Neuromuscular Blockade	Dr Haritha Dharmakeerthi
2.30 – 3.30 pm	Assessment of Awareness in Anaesthesia	Dr Haritha Dharmakeerthi
3.30 – 5.00 pm	Regulation of ICP	Dr Deepaka Amaraweera

6th WEEKEND

26th April 2025 Saturday

12.30 – 1.30 pm	Humidifiers	Dr Charaka Yapa
1.30 – 2.30 pm	Vapourisers	Dr Charaka Yapa
2.30 – 3.30 pm	Measurement of NIBP	Dr Chandana Karunarathna
3.30 – 4.30 pm	Measurement of IBP	Dr Chandana Karunarathna

27th April 2025 Sunday

9.00 – 10.00 am	Organ Blood Flow	Dr S Mathanalagan
10.00 – 11.00 am	Shock	Dr S Mathanalagan
11.00 – 12.00 pm	Tutorial on Antimuscarinics & Reversal Agents	Dr Lakmini Perera
12.00 – 1.00 pm	Lunch	
1.00 – 2.00 pm	Physiology of Liver	Dr Vishaka Kerner
2.00 – 3.30 pm	Blood Gas Electrodes	Dr Nimalie Lochanie

7th WEEKEND

10th May 2025 Saturday

12.30 – 1.30 pm	Communication skills	Dr Jayathi Subasinghe
1.30 – 2.30 pm	Principles of Pulse Oximetry	Dr Dimuthu Gunasena
2.30 – 3.30 pm	ETCO ₂ Analysis & Interpretation of Capnography	Dr Dimuthu Gunasena

3.30 – 5.00 pm	Statistics I	Dr Hemantha Kumarihamy
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11th May 2025 Sunday

8.00 – 9.00 am	Cardiac Output and Venous Return	Dr Chamil Perera
9.00 – 10.00 am	Physiology of Exercise	Dr Champika de Alwis
10.00 – 11.00 am	Haemostatic Mechanisms	Dr Thusitha Jayathilaka
11.00 – 12.00 pm	Body Fluids	Dr Thusitha Jayathilaka
12.00 – 1.00 pm	Lunch	
1.00 – 2.00 pm	Physiological effects of Haemorrhage	Dr Harini Jagoda
2.00 – 3.00 pm	Temperature Monitoring	Dr Malin Gunawardena
3.00 – 4.00 pm	Antiarrhythmics	Dr Senaka Weerakoon

8th WEEKEND

24th May 2025 Saturday

12.30 – 1.30 pm	Breathing Circuits	Dr Hemantha Rajapaksha
1.30 – 2.30 pm	Physiology of Pain	Dr Prasadini Karunarathna
2.30 – 3.30 pm	Physiology of Valsalva & IPPV	Dr Lakmi Hewage
3.30 – 4.30 pm	Respiratory Measurements	Dr Chandana Karunarathna
4.30 – 5.30 pm	Tutorial on Respiratory Physiology	Dr Chandana Karunarathna
5.30 – 6.30 pm	Statistics II	Dr Hemantha Kumarihamy

25th May 2025 Sunday

8.00 – 9.00 am	Metabolic Response to Trauma	Dr Chintha Kariyawasam
9.00 – 10.00 am	Endocrine Physiology	Dr Ashani Rathnayaka
10.00 – 11.00 am	Renal Function Tests	Dr Shammi Gamage
11.00 – 12.00 pm	Potassium Homeostasis	Dr Piyusha Jayawardena
12.00 – 1.00 pm	Calcium Homeostasis	Dr Piyusha Jayawardena
1.00 – 2.00 pm	Lunch	
2.00 – 3.00 pm	Electricity & Electrical Safety	Dr Janaki Arulmoli
3.00 – 4.00 pm	Recorders and Display Units	Dr Roshana Mallawarachchi

9th WEEKEND

7th June 2025 Saturday

12.30 – 1.30 pm	Tutorial on CVS Physiology	Dr Tithira Jayaweera
1.30 – 2.30 pm	Clinical Applications of Pharmacokinetics	Dr Sandya Somaweera
2.30 – 3.30 pm	Clinical Applications of Pharmacodynamics	Dr Sandya Somaweera

8th June 2025 Sunday

8.00 – 10.00 am	Tutorial on Physics	Dr Buddhika Vidanagama
9.00 – 10.00 am	Principles of CT/MRI/Laser	Dr Bimal Kudavidanage
10.00 – 12.00 pm	Doppler, Ultrasound & newer imaging techniques	Dr Bimal Kudavidanage
12.00 – 1.00 pm	Lunch	
1.00 – 2.00 pm	Tutorial on Anticoagulants, Antifibrinolytics & Antiplatelets	Dr Chamila Pilimatalawwe
2.00 – 3.00 pm	Tutorial on Pharmacology	Dr Hemantha Kumarihamy

10th WEEKEND

21st June 2025 Saturday

22nd June 2025 Sunday

The format of the course would be mostly interactive with participants being expected to be prepared for discussions, having gone through the relevant reading material.

Course Fee:**Full Course: Rs 15,000.00****Physiology only: Rs 10,000.00****Registration** – The course fee should be paid to**Online payment is available on <https://anaesthesia.lk> website.****Please note that cash payments will not be accepted.**

A copy of paying in slip should be forwarded to the College e mail office@anaesthesia.lk with your name, contact number and e mail address.

Or

The course fee should be paid online <https://anaesthesia.lk> (College website).

*If you are willing to join the course please send your name, e mail address and the contact number to the college email anascolsl@gmail.com for official use.

Dr Lakmali Samaraweera,

Consultant Anaesthetist / Secretary Education - COAISL

Office:0112873300/0706182726, email office@anaesthesia.lk, website: <https://anaesthesia.lk>**[Helpful reference material](#)****RECOMMENDED READING**

Recommend to read latest edition

PHYSIOLOGY

1. Textbook of Medical Physiology by Arthur Guyton, John E Hall
2. A Review of Medical Physiology by William F. Ganong
3. Principles of Physiology for the Anaesthetist by Ian Power and Peter Kam
4. Respiratory Physiology by John B West, Andrew M Luks
5. Applied Respiratory Physiology by J.F. Nunn

PHARMACOLOGY

1. Drugs in Anaesthetic Practice by M.D.Vickers, M. Morgan, PSJ Spencer, MS Read
2. Pharmacology & Physiology in Anaesthetic practice by Robert K. Stoelting, Simon C Hillier
3. Pharmacology for Anaesthesia and Intensive Care by Tom E. Peck, Sue Hill
4. Drugs and Anaesthesia. Pharmacology for Anaesthetists by Margaret Wood & Alastair Wood
5. Pharmacology by H. P. Rang, J. M. Ritter, R. J. Flower, and G. Henderson
6. Principles and practice of Pharmacology for Anaesthetists by Norman Calvey and Norton Williams

PHYSICS, CLINICAL MEASUREMENTS AND CLINICAL CHEMISTRY

1. Basic Physics Measurements in Anaesthesia by G.D. Parbrook, P.D. Davis, E.O. Parbrook
2. Principles of measurement and monitoring in Anaesthesia and Intensive Care by M.K. Sykes, M.D.Vickers, C.J. Hull, P.J Winterburn, B.J Shepstone
3. The physics, clinical measurement and equipment of anaesthetic practice for the FRCA by Patrick Magee, Mark Tooley
4. Scientific Foundations of Anaesthesia by Cyril Scurr, Stanley Feldman, & Neil Soni
5. Ward's Anaesthetic equipment by John TB Moyle, Andrew Davey
6. Statistics at Square one by Thomas Douglas, Victor Swinscow
7. Statistics at Square two By Michael J Campbell, T.D.V Swinscow