



College of Anaesthesiologists and Intensivists of Sri Lanka

Preparatory Course for Selection examination MD Anaesthesiology September - November 2026 On a Zoom Platform

1st WEEKEND

Saturday 12th September

11.30 - 12.00 pm	Introduction	Prof Vasanthi Pinto Dr Lakmali Samaraweera
12.00 - 2.00 pm	Anaesthetic Machine/Breathing systems and scavenging systems	Dr Chamil Perera
2.00 - 5.00 pm	Principles of measurement/Graphs and exponentials	Dr P Warusawitharana

Sunday 13th September

8.00 - 10.00 am	Renal physiology and renal function tests	Dr S Mathanalagan
10.00 - 12.00 pm	CT/MRI	Dr Bimal Kudavidanage
12.00 - 1.00 pm	Lunch	
1.00 - 3.00 pm	Haemodynamic monitoring/Measurement of blood pressure	Dr Senani Samarainghe
3.00 - 4.00 pm	Compressed gases/Pressure regulators	Dr Janaki Arulmoli

2nd WEEKEND

Saturday 26th September

12.00 - 3.00 pm	Biological potentials	Dr P Warusawitharana
3.00 - 4.30 pm	Pharmacodynamics	Dr Vasumathi Devanesan

Sunday 27th September

8.00 - 10.00 am	Autonomic nervous system	Dr Chamil Perera
10.00 - 11.00 am	Temperature regulation	Dr Piyusha Jayawardena
11.00 - 12.00 pm	Cerebral Blood flow and ICP regulation	Dr Piyusha Jayawardena
12.00 - 1.00 pm	Lunch	
1.00 - 3.00 pm	Gas and vapour analysis	Dr Nanditha Wanigasinghe

3rd WEEKEND

Saturday 10th October

12.00 - 2.00 pm	Body fluids and fluid balance/ Concepts of fluid movement across capillaries/Electrolyte balance	Dr Thusitha Jayathilaka
2.00 - 4.00 pm	Statistics I	Dr Hemantha Kumarihamy
4.00 - 5.00 pm	Cardiac output & Venous Return	Dr Chamil Perera

Sunday 11th October

8.00 - 11.00 am	Transducers	Dr Buddhika Vidanagama
11.00 - 1.00 pm	Acid base physiology	Dr Mithrajee Premarathna
1.00 - 1.30 pm	Lunch	
1.30 - 4.30 pm	Lung mechanics/Gas exchange/Mixed venous oxygen	Dr Chandana Karunarathna
4.30 - 5.30 pm	Isomerism	Dr Chamila Jayasekera

4th WEEKEND

Saturday 24th October

12.00 -2.00 pm	Vaporizers/Humidifiers	Dr Charaka Yapa
2.00 - 3.30 pm	Temperature monitoring/Flow and volume	Dr Malin Gunawardena
3.30 – 5.30 pm	Statistics II	Dr Hemantha Kumarihamy

Sunday 25th October

8.00 - 9.00 am	Physics Tutorial	Dr Buddhika Vidanagama
9.00 – 10.00 am	Control of BP	Dr Q Weerasingham
10.00 -12.00 am	Laser/Doppler/Ultra Sound	Dr Bimal Kudavidanage
12.00 - 1.00 pm	Lunch	
1.00 -3.00 pm	Pulse oximetry/Capnography	Dr Dimuthu Gunasena
3.00 - 4.00 pm	Vasoactive drugs & Inotropes	Dr Ashani Rathnayake
4.00 – 6.00 pm	Measurement of neuromuscular block and assessment of Awareness	Dr Haritha Dharmakeerthi

5th WEEKEND

Saturday 7th November

12.00 - 1.00 pm	Anticoagulants/Ant platelet drugs and reversal agents	Dr Ashoka Wijayananda
1.00 - 3.00 pm	Physiology of nerve and muscle/Neuromuscular transmission	Dr Kavya Boteju

Sunday 8th November

8.00 -10.00 am	Physiology Tutorial	Dr Chandana Karunarathna
10.00 - 12.00 pm	Operating theatre pollution and hazards	Dr Bimal Kudavidanage
12.00 - 1.00 pm	Lunch	
1.00 - 3.00 pm	Gastrointestinal physiology/Liver/Coagulation	Dr Anura Abeysundara
3.00 - 5.00 pm	Inhalational agents	Dr Harini Jagoda

6th Weekend

Saturday 21st November

12.00 - 2.00 pm	Electricity and electrical safety	Dr Anupa Herath
2.00 - 4.00 pm	Local Anaesthetics	Dr Gayani Walpola

Sunday 22nd November

8.00 – 9.00 am	Neuromuscular blockers and reversal agents	Dr Gita Jayathilake
9.00 - 11.00 am	Carriage of oxygen and carbon dioxide in blood/ Control of ventilation/ Fetal oxygenation	Dr Upul Ranjith
11.00 - 1.00 pm	Integrated CVS responses - Haemorrhage, Exercise and Valsalva maneuver	Dr Chamil Perera
1.00 - 2.00 pm	Lunch	
2.00 -4.00 pm	Opioids & antagonists/Non-opioid analgesics	Dr Harini Jagoda

7th Weekend

Saturday 5th December

12.00 - 1.00 pm	Antihypertensives/Antiarrhythmics	Dr Deepani Wijesinghe
1.00 - 2.00 pm	Blood gas Electrodes	Dr Chandana Nawarathna

2.00 - 4.00 pm	Endocrine system/Metabolic response to trauma	Dr Dinithi Attanayaka
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Sunday 6th December

8.00 – 10.00 am	Recorders /Display Units	Dr Chandana Nawarathna
10.00 – 12.00 pm	Pharmacokinetics	Dr Gita Jayathilaka
12.00 - 1.00 pm	Lunch	
1.00 – 3.00 pm	Pharmacology Tutorial	Dr Hemantha Kumarihamy

Extra Class

Saturday 19th December

Sunday 20th December

Full course fee = Rs. 9,000

Physiology only = Rs 6,000

*** Physiology - Colour coded in orange**

The course fee should be paid online at www.anaesthesia.lk. CASH WILL NOT BE ACCEPTED.

Last day for online registration: 10th September 2026

- The lecturers and times may be changed due to unavoidable circumstances.**

Advice to students:

You are expected to read the above topics before attending the lectures and tutorials. Please inform us 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.

Dr Lakmali Samaraweera,

Consultant Anaesthetist/ Secretary Education - COAISL

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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, P S J Spencer, M S 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 T B Moyle, Andrew Davey
6. Statistics at Squareone by Thomas Douglas, Victor Swinscow
7. Statistics at Square two By Michael J Campbell, T. D. V Swinscow

These may help you to understand the basics of Radiological investigations

- <http://usajournals.org/index.php/1/article/download/109/138>
- <https://musculoskeletalkey.com/basic-principles-and-terminology-of-magnetic-resonance-imaging/>
- https://www.uomustansiriyah.edu.iq/media/lectures/2/2_2023_09_27!02_23_16_AM.pdf

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- <https://www.progmedphys.org/journal/view.html?doi=10.14316/pmp.2021.32.1.1>
- <https://www.sciencedirect.com/science/article/abs/pii/S1472029923002412>
- [https://www.bjaed.org/article/S2058-5349\(18\)30018-0/pdf](https://www.bjaed.org/article/S2058-5349(18)30018-0/pdf)