



College of Anaesthesiologists and Intensivists of Sri Lanka

# Preparatory Course for Selection examination MD Anaesthesiology September - November 2025 On a Zoom Platform

## 1<sup>st</sup> WEEKEND

### Saturday 13<sup>th</sup> September

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

### Sunday 14<sup>th</sup> September

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

## 2<sup>nd</sup> WEEKEND

### Saturday 27<sup>th</sup> September

12.00 - 3.00 pm	<b>Biological potentials</b>	Dr P Warusawitharana
3.00 - 4.00 pm	<b>Anticoagulants/Ant platelet drugs and reversal agents</b>	Dr Ashoka Wijayananda
4.00 - 5.30 pm	<b>Pharmacodynamics</b>	Dr Vasumathi Devanesan

### Sunday 28<sup>th</sup> September

8.00 - 10.00 am	<b>Pharmacokinetics</b>	Dr Gita Jayathilaka
10.00 - 11.00 am	<b>Autonomic nervous system</b>	Dr Chamil Perera
11.00 - 12.00 am	<b>Temperature regulation</b>	Dr Piyusha Jayawardena
12.00 - 1.00 pm	<b>Cerebral Blood flow and ICP regulation</b>	Dr Piyusha Jayawardena

<b>1.00 - 1.30 pm</b>	<b>Lunch</b>	
3.00 – 4.30 pm	<b>Gas and vapour analysis</b>	Dr Nanditha Wanigasinghe
4.30 - 6.00 pm	<b>Pharmacology Tutorial</b>	Dr Hemantha Kumarihamy

### 3<sup>rd</sup> WEEKEND

#### Saturday 11<sup>th</sup> October

12.00 – 1.00 pm	<b>Cardiac output &amp; Venous Return</b>	Dr Chamil Perera
1.00 - 3.00 pm	<b>Body fluids and fluid balance/ Concepts of fluid movement across capillaries/Electrolyte balance</b>	Dr Thusitha Jayathilaka
3.00 - 5.00 pm	<b>Statistics I</b>	Dr Hemantha Kumarihamy

#### Sunday 12<sup>th</sup> October

8.00 - 10.00 am	<b>Transducers</b>	Dr Buddhika Vidanagama
10.00 - 12.00 pm	<b>Measurement of neuromuscular block and assessment of Awareness</b>	Dr Haritha Dharmakeerthi
<b>12.00 - 1.00 pm</b>	<b>Lunch</b>	
1.00 - 3.00 pm	<b>Acid base physiology</b>	Dr Mithrajee Premarathna
3.00 - 5.00 pm	<b>Lung mechanics/Gas exchange/Mixed venous oxygen</b>	Dr Chandana Karunarathna

### 4<sup>th</sup> WEEKEND

#### Saturday 25<sup>th</sup> October

12.00 - 1.30 pm	<b>Vaporizers/Humidifiers</b>	Dr Charaka Yapa
1.30 - 3.00 pm	<b>Temperature monitoring/Flow and volume</b>	Dr Malin Gunawardena
3.00 – 5.30 pm	<b>Statistics II</b>	Dr Hemantha Kumarihamy

#### Sunday 26<sup>th</sup> October

8.00 - 9.00 am	<b>Physics Tutorial</b>	Dr Buddhika Vidanagama
9.00 – 10.00 am	<b>Control of BP</b>	Dr Q Weerasingham
10.00 -12.00 am	<b>Laser/Doppler/Ultra Sound</b>	Dr Bimal Kudavidanage
<b>12.00 - 1.00 pm</b>	<b>Lunch</b>	
1.00 -3.00 pm	<b>Pulse oximetry/Capnography</b>	Dr Dimuthu Gunasena

3.00 - 4.00 pm	<b>Vasoactive drugs &amp; Inotropes</b>	Dr Ashani Rathnayake
4.00 – 5.00 pm	<b>Blood gas electrode</b>	Dr Chandana Nawarathna

### 5<sup>th</sup> WEEKEND

#### Saturday 8<sup>th</sup> November

12.00 - 1.00 pm	<b>Anticoagulants/Ant platelet drugs and reversal agents</b>	Dr Ashoka Wijayananda
1.00 - 3.00 pm	<b>Recorders /Display Units I</b>	Dr Chandana Nawarathna
3.00 - 5.00 pm	<b>Physiology of nerve and muscle/Neuromuscular transmission</b>	Dr Kavya Boteju

#### Sunday 9<sup>th</sup> November

8.30 -10.30 am	<b>Gastrointestinal physiology/Liver/Coagulation</b>	Dr Anura Abeysundara
10.30 - 12.30 pm	<b>Operating theatre pollution and hazards</b>	Dr Bimal Kudavidanage
<b>12.30 - 1.00 pm</b>	<b>Lunch</b>	
1.00 - 3.00 pm	<b>Physiology Tutorial</b>	Dr Chandana Karunarathna
3.00 - 5.00 pm	<b>Inhalational agents</b>	Dr Harini Jagoda

### 6th Weekend

#### Saturday 22<sup>nd</sup> November

12.00 - 2.00 pm	<b>Local Anaesthetics</b>	Dr Gayani Walpola
2.00 - 4.00 pm	<b>Electricity and electrical safety</b>	Dr Anupa Herath
4.00 - 5.00 pm	<b>Recorders /Display Units II Blood gas Electrodes</b>	Dr Chandana Nawarathna

#### Sunday 23<sup>rd</sup> November

8.00 – 9.00 am	<b>Neuromuscular blockers and reversal agents</b>	Dr Gita Jayathilake
9.00 - 11.00 am	<b>Endocrine system/Metabolic response to trauma</b>	Dr Dinithi Attanayaka
11.00 - 1.00 pm	<b>Carriage of oxygen and carbon dioxide in blood/ Control of ventilation/ Fetal oxygenation</b>	Dr Upul Ranjith
<b>1.00 - 1.30 pm</b>	<b>Lunch</b>	

1.30 - 2.30 pm	<b>Antihypertensives/Antiarrhythmics</b>	Dr Deepani Wijesinghe
2.30 -4.30 pm	<b>Opioids &amp; antagonists/Non-opioid analgesics</b>	Dr Harini Jagoda
4.30 -6.30 pm	<b>Integrated CVS responses - Haemorrhage, Exercise and Valsalva maneuver</b>	Dr Chamil Perera

#### 7th Weekend

##### Saturday 6<sup>th</sup> December

12.00 - 1.00 pm	<b>Isomerism</b>	Dr Chamila Jayasekera

**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](http://www.anaesthesia.lk). **CASH WILL NOT BE ACCEPTED.**

**Last day for online registration: 14th September 2025**

**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.**

#### 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

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