

**COLLEGE OF ANAESTHESIOLOGISTS & INTENSIVISTS OF SRI LANKA**  
**Preparatory Course for**  
**Selection examination MD Anaesthesiology**

**FEBRUARY – 2023**  
**ON ZOOM PLATFORM**

**1st WEEKEND**

**4th February 2023 Saturday**

12.00 – 12.30 pm	Registration and Introduction	Prof Anuja Abayadeera Dr Champika Sujeewani
12.30 – 1.30 pm	Pharmacodynamics	Dr Jeewani Rajasinghe
1.30 – 3.30pm	Graphs & Exponentials	Dr P Warusavitharana
3.30 – 4.30 pm	Flow and Volume	Dr Malin Gunawardena

**5th February 2023 Sunday**

8.00 – 9.00 am	V/Q & Oxygenation	Dr Chandana Karunaratne
9.00 – 10.00 am	ODC & O <sub>2</sub> Carriage	Dr Chandana Karunaratne
10.00 – 11.00 am	Control of Ventilation	Dr Upul Ranjith
11.00 – 12.00 pm	Carriage of CO <sub>2</sub> , Hypo and Hypercarbia	Dr Upul Ranjith
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
2.00 – 3.00 pm	IV Anaesthetic Agents	Dr S Premakrishna
3.00 – 4.00 pm	Pharmacology of Inhalational Agents	Dr Deepani Wijesinghe

**2nd WEEKEND**

**18th February 2023 Saturday**

12.30 – 2.30 am	Acid base Balance	Dr Mithrajee Preamaratne
2.30 – 5.00 pm	Biological Potentials	Dr P Warusavitharana

**19th February 2023 Sunday**

8.00 – 9.00 am	Signal Reproduction	Dr Buddhika Vidanagama
9.00 – 10.00 pm	Transducers	Dr Buddhika Vidanagama
10.00 – 12.00 am	Haemodynamic Monitoring	Dr Bhagya Gunathillake
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
1.00 – 3.00 pm	Neuromuscular Transmission	Dr Dakshi Jayawickrama
3.00 – 4.00 pm	Neuromuscular Blockers	Dr Gitanjali Jayathillake

**3rd WEEKEND**

**4th March 2023 Saturday**

12.30 – 1.30 pm	Pressure Regulators	Dr Upul Hapuarachchi
1.30 – 2.30 pm	Theatre Pollution & Scavenging	Dr Bimal Kudavidanage
2.30 – 5.00 pm	Principles of Measurement	Dr P Warusavitharana

**5th March 2023 Sunday**

8.00 – 10.00 am	Mixed Venous Oxygen	Dr Chandana Karunaratne
10.00 – 12.00 pm	Lung Mechanics	Dr Chandana Karunaratne
<b>12.00 - 1.00 pm</b>	<b>Lunch</b>	
1.00 - 2.30 pm	Pharmacokinetics	Dr Gita Jayathilaka
2.30 - 3.30pm	Opioids & Antagonists	Dr Tharanga Perera
3.30 – 5.00 pm	Local Anaesthetics	Dr Gayani Walpola

#### 4th WEEKEND

##### 18<sup>th</sup> March 2023 Saturday

12.30- 2.00 pm	Gas & Vapour Analysis	Dr Nandika Wanigasinghe
2.00 – 3.00 pm	ECG Interpretation	Dr Manura Lekamwattage
3.00 – 4.00 pm	Radiological Investigations in Anaesthesia and Intensive Care	Dr Indra Lekamge

##### 19<sup>th</sup> March 2023 Sunday

8.00 – 10.00 am	Renal Physiology	Dr Keshari de Silva
10.00 – 12.00 am	CVS Physiology	Dr Tithira Jayaweera
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
1.00 – 2.00 pm	Control of Blood Pressure	Dr Queenie Veerasingham
2.00 – 3.30 pm	Isomerism	Dr Chamila Jayasekera
3.30 – 5.00 pm	Anticoagulants, Antifibrinolytics & Antiplatelets	Dr Anura Abeysundara

#### 5th WEEKEND

##### 1<sup>st</sup> April 2023 Saturday

12.30 – 1.30 pm	Anaesthetic Machine	Dr Vihara Dassanayake
1.30 – 3.00 pm	Methods of Sterilization	Dr Suharshana Jayasekera
3.00 – 4.15 pm	Doppler, Ultrasound & newer imaging techniques	Dr Bimal Kudavidanage

##### 2<sup>nd</sup> April 2023 Sunday

8.00 - 9.00 am	Autonomic Nervous System	Dr Chamil Perera
9.00 - 10.00 am	Regulation of ICP	Dr Deepaka Amaraweera
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	Communication skills	Dr Gita Jayathilaka

#### 6th WEEKEND

##### 15<sup>th</sup> April 2023 Saturday

12.30 – 1.30 pm	Blood Gas Electrodes	Dr Nimalie Lochanie
1.30 – 2.30 pm	Recorders & Display Units	Dr Lasanda Gajaweera
2.30 – 3.30 pm	Gas Laws & Compressed Gases	Dr Lasanda Gajaweera

##### 16<sup>th</sup> April 2023 Sunday

8.00 – 9.00 am	Physiology of Liver	Dr Vishaka Kerner
9.00 – 10.00 am	Organ Blood Flow	Dr S Mathanalagan
10.00 – 11.00 am	Shock	Dr S Mathanalagan
11.00 – 12.00	Tutorial on Antimuscarinics & Reversal Agents	Dr Lakmini Perera
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
1.00 – 2.00 pm	Clinical Applications of Pharmacokinetics	Dr Sandya Somaweera
2.00 – 3.00 pm	Clinical Applications of Pharmacodynamics	Dr Sandya Somaweera
3.00 – 4.00 pm	Tutorial on Anticoagulants, Antifibrinolytics & Antiplatelets	Dr Chamila Pilimatalawwe

## 7th WEEKEND

### 29<sup>th</sup> April 2023 Saturday

12.30 – 2.30 pm	Principles of CT/MRI/Laser	Dr Bimal Kudavidanage
2.30 – 3.30 pm	Humidifiers	Dr Samitha Jayawickrema
3.30 – 4.30 pm	Vapourisers	Dr Samitha Jayawickrema
4.30 – 5.30 pm	Measurement of NIBP	Dr Chandana Karunarathna
5.30 – 6.30 pm	Measurement of IBP	Dr Chandana Karunarathna

### 30<sup>th</sup> April 2023 Sunday

8.00 – 9.00 am	Cardiac Output and Venous Return	Dr Loranthi Samarasinghe
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	Physiological effects of Haemorrhage	Dr Harini Jagoda
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
1.00 – 2.00 pm	Body Fluids	Dr Jayathi Subasinghe
2.00 – 3.00 pm	Temperature Monitoring	Dr Malin Gunawardena
3.00 – 4.00 pm	Antiarrhythmics	Dr Senaka Weerakoon

## 8th WEEKEND

### 13<sup>th</sup> May 2023 Saturday

12.30 – 2.30 pm	Statistics	Dr Hemantha Kumarihamy
2.30 – 3.30 pm	Principles of Pulse Oximetry	Dr Dimuthu Gunasena
3.30 – 4.30 pm	ETCO <sub>2</sub> Analysis & Interpretation of Capnography	Dr Dimuthu Gunasena

### 14<sup>th</sup> May 2023 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 Nadeesha de Fonseka
11.00 – 12.00 am	Potassium Homeostasis	Dr Piyusha Jayawardena
12.00 – 1.00 pm	Calcium Homeostasis	Dr Piyusha Jayawardena
<b>1.00 – 2.00 pm</b>	<b>Lunch</b>	
2.00 – 3.00 pm	Electricity & Electrical Safety	Dr Dammika Chandrasiri
3.00 – 4.00 pm	Recorders and Display Units	Dr L Gajaweera
4.00 – 5.00 pm	Antihypertensives	Dr Vihara Dassanayaka

## 9th WEEKEND

### 27<sup>th</sup> May 2023 Saturday

12.30 – 2.30 pm	Breathing Circuits	Dr J J Wanigarathne
2.30 – 3.30 pm	Physiology of Pain	Dr Thamasi Makuloluwa
3.30 – 4.30 pm	Physiology of Valsalva & IPPV	Dr Thamasi Makuloluwa

### 28<sup>th</sup> May 2023 Sunday

8.00 – 10.00 pm	Tutorial on Physics	Dr Buddhika Vidanagama
10.00 – 11.00 am	Tutorial on CVS Physiology	Dr Tithira Jayaweera
11.00 – 12.00 pm	Respiratory Measurements	Dr Chandana Karunaratne
<b>12.00 – 1.00 pm</b>	<b>Lunch</b>	
1.00 – 3.00 pm	Tutorial on Respiratory Physiology	Dr Chandana Karunarathne
3.00 – 4.00 pm	Tutorial on Pharmacology	Dr Hemantha Kumarihamy

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 10,000.00****Physiology only: Rs 7,500.00****Registration** – The course fee should be paid to

Bank : The Bank of Ceylon

Branch : Regent Street Branch

Account No : 0001781734

Account Name : College of Anaesthesiologists and Intensivists of Sri Lanka

A copy of paying in slip should be forwarded to the College e mail [anascolsl@gmail.com](mailto:anascolsl@gmail.com) with your name, contact number and e mail address.

Or

The course fee should be paid online at [www.anaesthesia.lk](http://www.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](mailto:anascolsl@gmail.com) for official use.**

**Dr. M. D. C. Sujeewani,**

Consultant Anaesthetist / Secretary Education - COAISL

0773113066, [sujeewani@gmail.com](mailto:sujeewani@gmail.com)Office:0112873300/ 0706182726, email [anascolsl@gmail.com](mailto:anascolsl@gmail.com), website:[www.anaesthesia.lk](http://www.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, P S J 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