

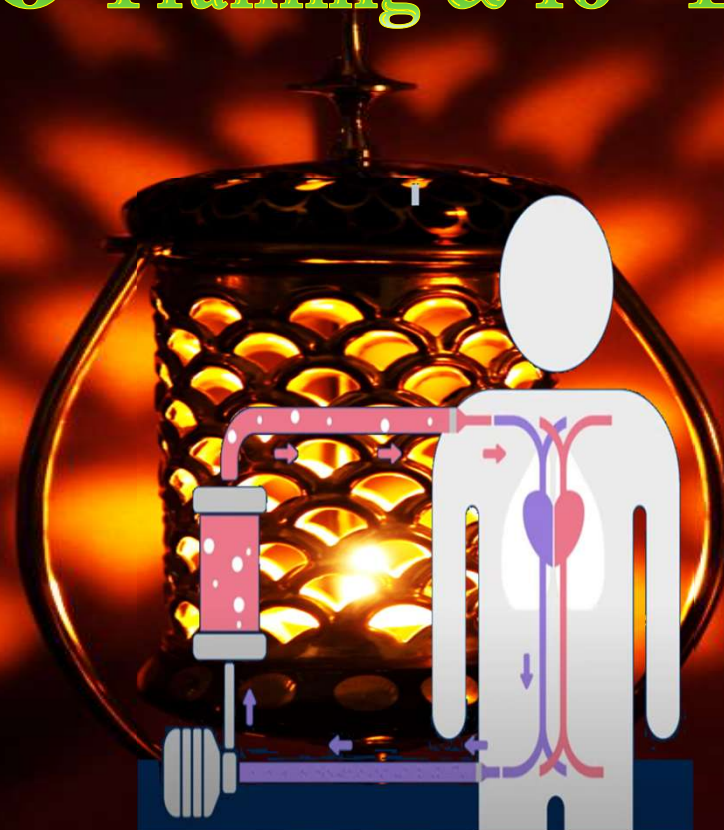
# 28<sup>th</sup> ECMO Training & 16<sup>th</sup> ELSO Endorsed Course



**ELSO ENDORSED  
COMPREHENSIVE  
SIMULATION -  
BASED ECMO  
COURSE**



**Center of Excellence –  
Gold – 2025 - 2027  
2018 – 8/2021  
Platinum – 2021 – 12/2024**



**ECMO INDIA 2026  
AT RVMH, MUMBAI**

**31 JULY – 2 AUGUST – VIRTUAL TALK  
7 – 9 AUGUST – HANDS ON &  
SIMULATION**

ECMO SAVES LIVES.....



at....

**Riddhivinayak Critical Care and Cardiac Centre  
ELSO endorsed Simulation based ECMO training course**

**ECMO SOCIETY OF INDIA**

ESOI



# **28<sup>th</sup> ECMO Training Course & 16<sup>th</sup> ELSO Endorsed**

## **ECMO society of India**

Presents

**“A Six days (Hybrid – 3 days Virtual & 3 days onsite) Interactive learning sessions  
on ECMO “**

**AUGUST 2026**

**31 JULY – 2 AUGUST – VIRTUAL TALK**

**7 – 9 AUGUST – HANDS ON & SIMULATION**

**Venue – Riddhi Vinayak Multispecialty Hospital**

**Nallasopara (west), Mumbai, India**



**RIDDHI VINAYAK**  
Critical Care & Cardiac Centre



# Who should join & how?

- **Interested people**
  - Registered medical professionals who are eager to adapt ECMO as a career choice., like....
  - Intensivists – adult, pediatric, neonates
  - Perfusionists
  - Registered critical care nurses
  - Respiratory therapists
  - Cardiologists, Cardiac or Vascular surgeons or Anesthetists
  - Post graduate candidates MD,MS
  - Preferably teams of 3 to 5 people from the critical care centers which include intensivist, perfusionist & registered nurse
- **Course fees Including Redbook (6<sup>th</sup> Edition ELSO – e version)**
  - For training course – Rs 18000 / per person for doctors
  - For training course – Rs 15000/ per person for paramedical
  - For members of ESOI only – Rs 17000/- for doctors and Rs 14000 for paramedical
  - For ESOI students – Fellowship – Rs 15000 & certificate – Rs 13000
  - For foreign delegates – \$ 300 (only training course)
- **Contact number – 9821214971 / 9820321815**
- **For registration - [https://www.ecmosocietyofindia.com/Conference\\_Registration.php](https://www.ecmosocietyofindia.com/Conference_Registration.php)**

### **Salient features –**

- **Hard core training for those who are keen for ECMO as a carrier**
- **ELSO Endorsed Course – this makes you eligible for “ELSO Adult ECMO Practitioner Certification (E-AEC)” Step I & step II, for details visit <https://www.else.org/ecmo-education/certificationexam.aspx>**
- **Audio – visual training with wet lab experience**
- **6 days course (Hybrid – 3 days Virtual & 3 days onsite)**
- **From 31 July – 2 August 2026 Virtual talks from 5 PM to 9 PM**
- **From 7 – 9 August 2026 workshop & simulation offline**
- **Around 32 lectures by ECMO & field experts – national & international**
- **Practical sessions –**
  - **21 hours for practical session – water drill, Demonstration, Hands on & High-Fidelity Simulation**
  - **The delegates will be divided in 6 groups for 6 interactive station & mandatory hands-on experience.**
- **Simulation and Exam on day 6**
- **Study material includes – book on ECMO, videos & slide presentations.**
- **Limited seats around 60 for training course**



## National Faculty

- Dr Venkat Goyal
- Dr Vivek Gupta
- Dr Pranay Oza
- Dr Nandkishore
- Dr Arpan Chakraborty
- Dr Vinod Singh
- Dr Rakesh V
- Dr Indira Jayakumar
- Dr Vishal Sardhara
- Dr Dipanjan Chatterjee
- Dr Poonam Malhotra

- Dr K. Madhan Kumar
- Dr Kapil Thakkar
- Dr Shivakumar
- Dr Ravi Krishna
- Dr Muralikrishna
- Dr Rajan Barorkar
- Dr Vamshi J
- Dr Niranjana Panigrahi

## International Faculty

- Dr Suneel Pooboni
- Dr RAMANATHAN K R

## ESOI Training Course, Day 1, 31<sup>st</sup> July 2026, Friday

|               |                                                                      |                          |
|---------------|----------------------------------------------------------------------|--------------------------|
|               | Pre Course Test MCQ – 20 marks – ONLINE on 1/10/2026 via Google form |                          |
| 17.00 – 17.05 | Inauguration & Lamp Lightening                                       |                          |
| 17.05 – 17.20 | Course overview                                                      | Pranay Oza/ Venkat Goyal |
| 17.20 – 17.40 | ECMO – introduction & Indications                                    | Vamshi J                 |
| 17.45 – 18.05 | History & statistics                                                 | Suneel Pooboni           |
| 18.10 – 18.30 | ECMO – physiology                                                    | Pranay Oza               |
| 18.35 – 18.55 | Type of ECMO - VA ECMO                                               | Vivek Gupta              |
| 19.00 – 19.20 | VV ECMO                                                              | Suneel Pooboni           |
| 19.25 – 19.45 | Hybrid ECMO & Nomenclature                                           | Rakesh V                 |
| 19.50 – 20.10 | Cannulation                                                          | Niranjan Panigrahi       |
| 20.15 – 20.35 | Initiation & Monitoring                                              | Shivakumar               |
| 20.40 – 21.00 | Management                                                           | Vinod Singh              |
| 21.05 – 21.25 | ECMO organization                                                    | Venkat Goyal             |

## ESOI Training Course, Day 2, 1<sup>st</sup> August 2026, Saturday

|               |                                                           |                  |
|---------------|-----------------------------------------------------------|------------------|
| 17.00 – 17.15 | Recap                                                     |                  |
| 17.20 – 17.40 | Ventilation strategy during ECMO                          | Vivek Gupta      |
| 17.45 – 18.05 | Sedation & analgesia during ECMO                          | Nandkishore      |
| 18.10 – 18.30 | Neurological monitoring of ECMO                           | Suneel Pooboni   |
| 18.35 – 18.55 | Patient related complications & management                | Kapil Thakkar    |
| 19.00 – 19.20 | Blood transfusions – when & what                          | Indira Jayakumar |
| 19.25 – 19.45 | Proneing, Nursing care & Physiotherapy of patient on ECMO | Rakesh V         |
| 19.50 – 20.10 | Transport of patient on ECMO                              | Dipanjana Ch     |
| 20.15 – 20.35 | Weaning, trial off & decannulation                        | RaviKrishna      |
| 20.40 – 21.00 | Anticoagulation during ECMO                               | Poonam Malhotra  |
| 21.05 – 21.25 | Renal issues & Dialysis during ECMO                       | Vivek Gupta      |

## ESOI Training Course – Day 3, 2<sup>nd</sup> August 2026, Sunday

|               |                                            |                     |
|---------------|--------------------------------------------|---------------------|
| 17.00 – 17.15 | Recap                                      |                     |
| 17.20 – 17.40 | ECMO in sepsis                             | Ramanathan K R      |
| 17.45 – 18.05 | Role of Echo in ECMO                       | Venkat Goyal        |
| 18.10 – 18.30 | Infections during ECMO                     | Suneel Pooboni      |
| 18.35 – 18.55 | ECPR                                       | Arpan Chakraborty   |
| 19.00 – 19.20 | CO2 Removal device                         | Dipanjan Chatterjee |
| 19.25 – 19.45 | ECMO in Transplant ICU                     | K. Madhan Kumar     |
| 19.50 – 20.10 | Paediatric respiratory ECMO                | Nandkishore         |
| 20.15 – 20.35 | Surgical interventions during ECMO         | Dipanjan Ch         |
| 20.40 – 21.00 | Newer indication & future of ECMO          | Venkat Goyal        |
| 21.05 – 21.25 | Cardiac stunning – prevention & management | Pranay Oza          |



## ESOI Training Course, Day 4, 7<sup>th</sup> August 2026, Friday

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07.45 – 08.15 | Registration & Breakfast                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                    |
| 08.15 – 08.35 | Recap                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                    |
| 08.35 – 09.45 | Practical Session – Demonstration of Components, Circuit preparation & Circuit priming                                                                                                                                                                                                                                                                                                                                                     | Pranay Oza/ Venkat Goyal                                                                                                                                           |
| 9.45 – 10.45  | Practical Session – Demonstration of Initiation, Monitoring on ECMO – Simulation                                                                                                                                                                                                                                                                                                                                                           | Pranay Oza & Venkat Goyal                                                                                                                                          |
| 10.45 – 11.30 | Practical Session – Demonstration of Cannulation VV/ VA ECMO                                                                                                                                                                                                                                                                                                                                                                               | Pranay Oza & Venkat Goyal                                                                                                                                          |
| 11.30 – 11.45 | Inauguration & Lamp Lightening                                                                                                                                                                                                                                                                                                                                                                                                             | Venkat Goyal & Pranay Oza                                                                                                                                          |
| 11.45 – 13.45 | Practical sessions (25 mins each)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                    |
|               | Station I – Initiation of ECMO – case selection, Cannulation & anticoagulation planning                                                                                                                                                                                                                                                                                                                                                    | Jayanthikishore, SriCharan Goda                                                                                                                                    |
|               | Station II – Circuit preparation – selection of component & making circuit & calculation of priming volume                                                                                                                                                                                                                                                                                                                                 | Ravi Krishna                                                                                                                                                       |
|               | Station III – Circuit priming – priming volume & priming solution                                                                                                                                                                                                                                                                                                                                                                          | Vishal Sardhara                                                                                                                                                    |
|               | Station IV – Cannulation – Hands on VV/VA ECMO                                                                                                                                                                                                                                                                                                                                                                                             | Venkat Goyal                                                                                                                                                       |
|               | Station V – Initiation of ECMO – case selection, Cannulation & anticoagulation planning                                                                                                                                                                                                                                                                                                                                                    | Pranay Oza                                                                                                                                                         |
|               | Station VI – Circuit preparation – selection of component & making circuit & calculation of priming volume                                                                                                                                                                                                                                                                                                                                 | Kapil Thakkar                                                                                                                                                      |
|               | Station VII – Circuit priming – priming volume & priming solution                                                                                                                                                                                                                                                                                                                                                                          | Rakesh V, Srivatsva N                                                                                                                                              |
|               | Station VIII – Cannulation – Hands on VV/VA ECMO                                                                                                                                                                                                                                                                                                                                                                                           | Dipanjana Chatterjee                                                                                                                                               |
| 13.40 – 14.30 | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                    |
| 14.30 – 15.40 | Simulation on Ambulance Transport scenario<br>Simulation on Proning, Trial off VA ECMO, Mobilization while on ECMO                                                                                                                                                                                                                                                                                                                         | Pranay Oza & Venkat Goyal                                                                                                                                          |
| 15.45 – 17.45 | Practical Session (30 mins each)<br>Station I – Weaning, Trial off & weaning failure VV/ VA ECMO<br>Station II – Transport on ECMO Simulation<br>Station III – Proning on ECMO Simulation<br>Station IV – Mobilization while on ECMO<br>Station V – Weaning, Trial off & weaning failure VV/ VA ECMO<br>Station VI – Transport on ECMO Simulation<br>Station VII – Proning on ECMO Simulation<br>Station VIII – Mobilization while on ECMO | Jayanthikishore, SriCharan Goda<br>Venkat Goyal<br>Dipanjana Chatterjee<br>Vishal Sardhara<br>Rakesh V, Srivatsva N<br>Kapil Thakkar<br>Ravi Krishna<br>Pranay Oza |
| 17.45 – 18.30 | Practical Session – Demonstration of Management of complications                                                                                                                                                                                                                                                                                                                                                                           | Pranay Oza & Venkat Goyal                                                                                                                                          |

## ESOI Training Course – Day 5, 8<sup>th</sup> August 2026, Saturday (Application of ECMO)

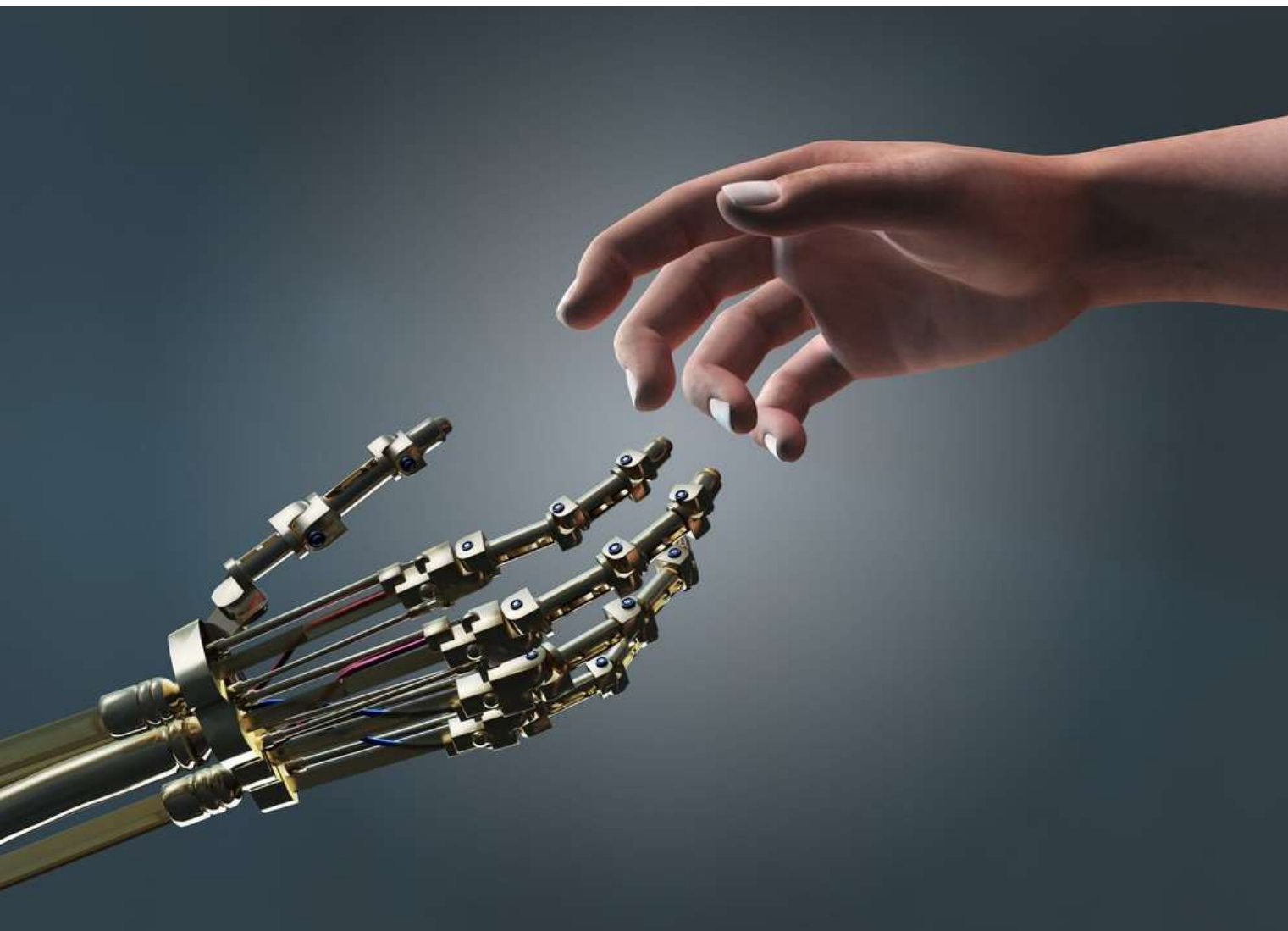
|               |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                     |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07.30 – 08.00 | Breakfast                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                     |
| 08.00 – 08.20 | Discussion on Pre Course test Answer                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                     |
| 08.15 – 09.00 | Panel discussion – Ethical Issues In ECMO, Panellist – Pooboni, Venkat Goyal, Vivek Gupta, Dipanjan Ch, Kapil Thakkar, Jayanthi Kishore                                                                                                                                                                                                                                        | Arpan Chakraborty                                                                                                                                                   |
| 09.00 – 11.00 | Practical Session (40 mins each) - Mechanical Complication<br>Station I – Power failure<br>Station II – Air Embolism<br>Station III – Component change – Pump<br>Station IV – Component change – Oxygenator failure<br>Station V – Power failure<br>Station VI – Air Embolism<br>Station VII – Component change – Pump<br>Station VIII - Component change – Oxygenator failure | Jayanthi Kishore<br>Ravi Krishna<br>Dipanjan Chatterjee<br>Vishal Sardhara<br>Ramanathan KR, SriCharan Goda<br>Kapil Thakkar<br>Rakesh V, Srivatsva N<br>Pranay Oza |
| 11.00 – 11.15 | Tea Break                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                     |
| 11.15 – 12.15 | Trouble shooting                                                                                                                                                                                                                                                                                                                                                               | Pranay Oza                                                                                                                                                          |
| 12.15 – 12.30 | How to make ECMO Economical                                                                                                                                                                                                                                                                                                                                                    | Pranay Oza                                                                                                                                                          |
| 12.30 – 13.30 | Lunch Break                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                     |
| 13.30 – 17.30 | Simulation Scenarios on mechanical emergency –<br>Simulation 1<br>Simulation 2<br>Simulation 3<br>Simulation 4<br>Simulation 5<br>Simulation 6<br>Simulation 7<br>Simulation 8                                                                                                                                                                                                 | Pranay Oza, Ramanathan K R                                                                                                                                          |
| 17.30 – 19.00 | Practical Exam, Mechanical complications – Power Failure (Mandatory for all), Priming & Change of components (Optional)                                                                                                                                                                                                                                                        | Entire Faculty                                                                                                                                                      |

## ESOI Training Course – Day 6, 9<sup>th</sup> August 2026, Sunday (ECMO Simulation)

|                                                              |                                                          |                                                                  |
|--------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------|
| 07.40 – 08.20                                                | Breakfast                                                |                                                                  |
|                                                              | EXAMS – MCQ 40 marks (ONLINE on 10/10/2026 late evening) |                                                                  |
| Simulation Station – 13 Scenarios (6 students in each group) |                                                          |                                                                  |
| 08.35 – 09.05                                                | Simulation Case I                                        | Pranay Oza, Ramanathan K R, Srivatsva N                          |
| 09.10 – 09.40                                                | Simulation Case II                                       |                                                                  |
| 09.45 – 10.15                                                | Simulation Case III                                      |                                                                  |
| 10.15 – 10.35                                                | TEA BREAK                                                |                                                                  |
| 10.40 – 11.10                                                | Simulation Case IV                                       | Pranay Oza, Ramanathan K R, Sricharan Goda                       |
| 11.15 – 11.45                                                | Simulation Case V                                        |                                                                  |
| 11.55 – 12.25                                                | Simulation case VI                                       |                                                                  |
| 12.30 – 13.00                                                | Simulation Case VII                                      | Pranay Oza<br>Ramanathan K R<br>K. Madhan Kumar<br>Muralikrishna |
| 13.10 – 13.45                                                | Simulation Case VIII                                     |                                                                  |
| 13.45 – 14.15                                                | Simulation Case IX                                       |                                                                  |
| 14.20 – 14.50                                                | Simulation Case X                                        | Pranay Oza<br>Ramanathan K R<br>K. Madhan Kumar<br>Muralikrishna |
| 14.55 – 15.25                                                | Simulation Case XI                                       |                                                                  |
| 15.30 – 16.00                                                | Simulation Case XII                                      |                                                                  |
| 16.05 – 16.35                                                | Simulation Case XII                                      |                                                                  |
| 16.35 – 16.50                                                | Validating Function & Group photo                        |                                                                  |

# Time Distribution of the course

|   | Content of course                   | Time Spent in Minutes |     |     |     |     |     | Total time in mins                            |
|---|-------------------------------------|-----------------------|-----|-----|-----|-----|-----|-----------------------------------------------|
|   |                                     | D1                    | D2  | D3  | D4  | D5  | D6  |                                               |
| 1 | Didactic Lectures                   | 200                   | 200 | 200 | 00  | 100 | 0   | 700 (11 hrs & 40 mins)<br>28.6% of total time |
| 2 | Central Demonstration & Workstation | 00                    | 00  | 00  | 530 | 210 | 0   | 740 (12 hrs & 20 Mins)<br>30.3% of total time |
| 3 | Simulation session                  | 00                    | 00  | 00  | 00  | 240 | 385 | 625 (10 hrs & 25 mins)<br>25.6% of total time |
| 4 | Lunch & Teatime                     | 00                    | 00  | 00  | 55  | 65  | 60  | 180 (3 hrs)<br>7.3% of total time             |
| 5 | Question / answer & Recap time      | 50                    | 55  | 55  | 20  | 20  | 00  | 200 (3 hr & 20 mins)<br>8.2% of total time    |
| 6 | Total time                          | 250                   | 255 | 255 | 605 | 635 | 445 | 2445 (40 hrs & 45 mins)                       |



**For details – Contact:**

**Dr Venkat Goyal –**

9820321815 / 09223186500

**Dr Pranay Oza –**

09821214971 / 09223186518

**Venue – RIDDHI VINAYAK MULTISPECIALITY HOSPITAL  
NALLASOPARA (WEST)**

[www.ecmosocietyofindia.com](http://www.ecmosocietyofindia.com)

**Registration:**

**Doctors: Rs 18000**

**(Members : Rs 17000)**

**Paramedical: Rs 15000**

**(Members : Rs 14000)**

**ESOI Fellowship Student : Rs. 15000**

**ESOI Certificate Student : Rs. 13000**

**It Includes RED BOOK (6<sup>th</sup> Edition ELSO – e version)**

**International delegates : \$300 (only training course)**

**Registration Link :**

[http://www.ecmosocietyofindia.com/Conference\\_Registration.php](http://www.ecmosocietyofindia.com/Conference_Registration.php)

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code : PUNB0610100



**UPI ID: 9820321815m@pnb**