



VALUE ADDED  
CERTIFICATE COURSE IN

Accredited at 'A+' Grade by NAAC (3rd Cycle)  
Placed in 'A' Category by MoE (GoI)

# “BASICS OF PERIOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY”



DEPARTMENT OF CARDIAC ANAESTHESIA

**Aims and Objectives :** Department of Cardiac Anaesthesia has started Basic course in Perioperative Transesophageal Echocardiography targeting the Allied health sciences related to cardiovascular system like cardiac perfusion technology, Cardiac care technology, Masters in Echocardiography students and the Post graduate students in Anaesthesia in view of need of the knowledge of Echocardiography. This knowledge is required for diagnosing Perioperative cardiac function and diagnosis of causes of Perioperative hemodynamic instability. On time diagnosis and treatment will help in improving the outcome.

### **Course: “Basics of Perioperative Transesophageal Echocardiography”**

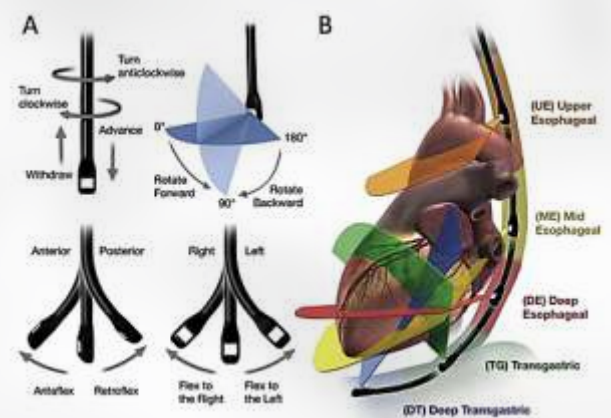
**Course duration:** 20 hours (Completed over 4 weeks)

**Target audience:** Post Graduates in Anaesthesia, Cardiology, Medicine, CVTS, B.Sc. and M.Sc. in cardiac care technology and Echocardiography.

**Course contents:** Introductory remarks from course director: - 30 min.

#### **1. Faculty lectures: 8 lectures (45 min each)**

- Basic physics of TEE Echocardiography.
- Comprehensive perioperative TEE.
- Assessment of LV systolic function using TEE.
- Assessment of LV diastolic function using TEE.
- Assessment of RV function using TEE.
- Assessment of mitral valve using TEE.
- Assessment of Aortic valve using TEE.
- Assessment of Tricuspid Valve using TEE.



## **2. Demonstration lectures: 8 lectures (45 min each)**

- Basic Knobology of TEE workstation with understanding of physics of TEE Echocardiography.
- Comprehensive perioperative TEE views.
- Measuring LV systolic function using TEE.
- Grading LV diastolic function using TEE.
- Measuring the RV function using TEE.
- Assessment of Mitral valve using TEE.
- Assessment of tricuspid valve using TEE.
- Assessment of Aortic valve using TEE.

## **3. Hands on training: 180 min (6sessions of 30 min)**

## **4. Flip Class: 8 classes (30 min each)**

- Physics of TEE Echocardiography Ultrasound.
- Comprehensive perioperative TEE.
- Assessment of LV systolic function using TEE.
- Assessment of LV diastolic function using TEE.
- Assessment of RV function using TEE.
- Assessment of mitral valve using TEE.
- Assessment of Aortic valve using TEE.
- Assessment of Tricuspid valve using TEE.

**Course Completion address from Course Director:** 15 min.

**Certificate distribution:** 15 min.

**Course Director:** Dr. Abhijeet Shitole.

**Course Co-ordinator:** Dr. Anand Vagarali.

## **Department of Cardiac Anaesthesiology**

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