

**KRISHNA INSTITUTE OF MEDICAL SCIENCES
“DEEMED TO BE” UNIVERSITY, KARAD.**

**Diploma in Echocardiography Technician
(Program Code- 1803) (Course Code- 1803)**

DIPLOMA IN ECHO CARDIOGRAPHY TECHNICIAN

Duration: 1 Year.

Eligibility: 12th Pass

Fee: As per University Policy.

Selection Method: Entrance Examination Conducted by the University.

- **Faculty:**
 1. Dr.Abhijeet Shelke
MD(MED)DNB(Cardiology)EP.
Interventional Cardiologist & Electrophysiologist.
 2. DR.VIJAYSINH PATIL
MD (MED) DNB Cardiology
FESC, FICI,Interventional Cardiologist
 3. Dr.RameshKawde
MBBS, PGDCC
Junior Cardiologist.
- **Infrastructure:**
 - VIVID E-95 3D ECHO MACHINE (GE)
 - VIVID S6 2D ECHO MACHINE (GE)
 - TREAD MILL TEST (GE MAC 5500HD-TMT MACHINE) (GE)
 - AMBULATORY BP MONITORING MACHINE (GE)
 - HOLTER MOITORING (GE)
 - TABLE TILT MACHINE(GE).

- **Contributing Department:** Department of Cardiology
- **Medium of Instruction:** English.
- **Attendance:** 90% attendance is mandatory to become eligible for the examination and will be certified by the course director.

BASIC ECHOCARDIOGRAPHY

- **I st Semester**

1. Basics of CVS

- a) Functional Anatomy of the Heart
- b) Normal Physiology of CVS

2. Echocardiogram(Basic)

- a) Principles and applications
- b) M-mode Echocardiogram
- c) Two Dimensional Echocardiogram
- d) Three Dimensional Echocardiogram
- e) Doppler Echocardiogram
- f) Colour -flow
- g) Transesophageal Echocardiogram
- h) Contrast Echocardiogram

- **II Semester**

- a) Echo in Aortic valve diseases
- b) Echo in Mitral valve diseases
- c) Echo in other valve diseases
- d) Echo in Pulmonary Hypertension
- e) Prosthetic valve Echo
- f) Echo in Infective Endocarditis
- g) Echo in IHD
- h) Echo in Cardiomyopathy
- i) Echo in Congenital Heart Diseases
- j) Echo in Cardiac masses, Thrombi and Tumors
- k) Echo in Pericardial disease
- l) Echo assessment of LV and RV Function

- **Teaching Learning Method:**

1. Observation
2. Hands on Practice.

- **Reference Book: 1**

1. Figenbaum's Echocardiography.
2. The Echo Manual-Tajik
3. Echo Made Easy-Dr. Atul Luthra.
4. Echo made Easy- Sam Kaddoura.
5. Washington Manual of Echocardiography.