

Diploma
in
Cardiac Technology



INDIAN MEDICAL ASSOCIATION

I.M.A House, I. P. Marg
New Delhi – 110 002

This course is designed for students enrolled in the Cardiovascular Technology Program. It will provide an in-depth study of cardiovascular anatomy and pathophysiology, to include circulatory dynamics, cardiac output and control mechanisms. Also included will be pathophysiological mechanisms of embryology, congenital and acquired cardiovascular diseases.

Clinical experience in procedures performed in invasive cardiology. This includes using the equipment, performing tests, and giving patient care as it relates to the cardiovascular area. Advanced Cardiac Life Support (ACLS) certification is a required outcome of this course.

ELIGIBILITY

- 1) Candidates who have passed 10 + 2 from any Board/ CBSE/ ICSE board or Pre-University examination with 40 % percent marks with science stream (Physics, Chemistry, Biology, Mathematics, Agriculture, etc.).
- 2) If science candidates are not available then the institutes may enrol students from any other stream with minimum of 50% of aggregate marks with an undertaking/Affidavit from the students that they are fully aware that the Diploma may not be recognised by some of the State Governments and that they are undergoing the training on their own risk and will. Such an undertaking/Affidavit will have to be submitted to IMA at the time of enrolment of the candidates.
- 3) The candidate seeking admission in to Diploma courses should have attained 17 years of age as on 31ST December of the year of admission but not more than 25 years at the time of admission. Age relaxation of 5 years for SC/ST candidates and 3 years for OBC candidates is admissible.

DURATION OF THE COURSE

The duration of the Cardiac Technology Course shall be Two Years.

MEDIUM OF INSTRUCTION

English shall be the medium of instruction for all the subjects of study and for the examination of Cardiac Technology Course.

SCHEDULE OF EXAMINATION

There will be two examination in a year, I) July and ii) November. Examination to be conducted as per notification issued by the IMA.

EXAMINATION

There will be 3 Theory papers as under: -

PAPER - I:

PAPER- II:

PAPER-III:

CRITERIA FOR PASSING

A candidate is declared passed in an examination in a subject, if he/she secures 40% of marks in theory and 40% in practical separately, will be placed in division as under :

- i) 75% Distinction
- ii) 60% -74.9% Ist Division
- iii) 50% - 59.9 % 2nd Division
- iv) 40% - 49.9% Pass

SUPPLEMENTARY EXAM : Candidate failing may take up supplementary examination to be held after 6 months.

INTERNSHIP

The Course is two years. There is no Internship Training Programme.

FEE: As per IMA.

GOVERNING BODY

This will be the monitoring and governing body to run the course and to look after its different facets so that the course run by it is lucrative and useful in producing trained medical personnel's who are useful to the laboratories and who may earn livelihood by getting employment in prestigious laboratories.

Board will consist of :

1. Chief Coordinator of Medical Laboratory Technology - 1
2. Coordinators – 4

IMA President and Hony. Secretary General or their nominee will be permanent participant having voting power. Tenure of board should be two years.

Diploma in Cardiac Technology

(Syllabus)

- 1. Non-invasive**
- 2. Invasive**

Non-invasive Cardiology

1. E.C.G. (adequate number of ECGs Should be done daily)
2. TMT (preferably about 20/day)
3. Echo (20 – 25/day with about 4 -5 stress-echos)
4. Holter Monitoring

In-vassive Cardiology

1. Cath-Lab (with about 10 Angiographies /day including Coronary Diseases and Congenital-Anamolies Studies)
2. Pacemaker Implantations
3. Cardiac Electro Physical Studies Facility

Examination :

Paper – I

Basic Anatomy and Physiology of Cardiovascular System

Paper – II

Electro Cardio Graphy – Preparation & Technique
TMT & Holter Monitoring

Paper – III

Cardiac Catherization – Principle, Diseases of heart, Pacemaker Implantations