

**Criteria for Admission Examination and
Syllabus
For
Certificate in CT / MRI / CT-MRI**



**INDIAN MEDICAL ASSOCIATION
IMA HOUSE, I.P. MARG
NEW DELHI – 110 002
Ph:2337 0009, 2337 8819, 2337 8424**

CERTIFICATE COURSE IN CT

Total Duration : 6 months

Need : Presently two to three years recognised courses are available after secondary school in Radiography which primarily concentrate on conventional radiology with some basic knowledge on CT and MRI.

With advancements in CT technology, applications and increasing installations of CT in the country it has become essential to start a special 6 months course training the qualified radiographers / technologists to operate / handle and manage CT studies. The course assumes importance as the CT technology is complex but at same time has lot to offer to a patient. The number of different types of procedures which can be performed on CT are many like CT coronary angiography, CT enterography, CT cisternography, Virtual bronchoscopy, virtual colonoscopy etc. With improvements and advancements in technology the number of these special procedures is increasing everyday further necessitating special course in CT.

ANNEXTURE - I

Qualification:

1. Two or three years (Degree / Diploma) course in Radiography with internship

Syllabus :

1. Principles of CT imaging
2. QA testing for CT
3. Basic knowledge on computers
4. Basic knowledge on image parameters
5. Special Instructions for different procedures
6. Preparation of patient
7. Contraindications of CT – Absolute and Relative
8. Positioning of patient for various scans
9. Radiation Hazards
10. AERB rules , regulations related to CT
11. ALARA principle and its application
12. CT sectional Anatomy
13. Knowledge about common disease
14. Common Indications
15. Contrast Agents in CT
16. Management of contrast reactions
17. Basics of BLS , Code Blue
18. Operation of CT machine
19. How to handle emergencies
20. Image artefacts and how to handle
21. Do's & Don'ts in CT Room
22. Post processing of the data
23. Filming / Data presentation

Proposed Exam Before Certificate Award:

Examiner :

1. One Radiologist
2. One Senior Radiographer working on CT

Paper 1 : Theory : 100 Marks

Paper 2 : Practical : 200 Marks

Student must pass in both separately.

CENTRES / HOSPITALS ELIGIBLE TO CONDUCT THESE COURSES :

1. Should have running multi slice CT for last 5 years.
2. At least one Radiologist and one technician should have been working on CT for last five years
3. Centre should be NABH accredited.
