

# Advance Diploma in x-ray radiography & ultrasonography techniques

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## a. AIMS & OBJECTIVES:

To provide better alternative choice for graduates of science, medical & para medical, who are not keen to study master's degree but wish to enter & specialize in one of the most sought after field as radiology & imaging.

To prepare highly skilled technologist by imparting in detail theoretical knowledge of ever expanding & highly potential subject of radiology which deals with ultra sonography (U.S.G.), computed tomography (C.T), magnetic resonance imaging (M.R.I.) & digital radiography beside conventional x-ray diagnosis.

To train candidates to handle conventional as well as highly advanced instruments & equipments.

To impart professional knowledge, communication skills, medical ethics, self confidence to serve community at large & health care sector in particular.

## b. SCOPE & EMPLOYMENT POTENTIAL

- 1) Post graduate diploma holder in radiographic & imaging technologies will be employed by any government, semi- government, private, charitable, corporate sector & diagnostic centers for handsome compensation.
- 2) Some diploma holders can be employed by x-ray, u.s.g, c.t scan manufacturing/refurbishing companies for their high end theoretical knowledge & skill.
- 3) Some post graduate diploma holder will find job as instructor, lecturer, and professor in teaching institute.
- 4) A sizable no of post graduate in radiographic technologies will find employment in abroad.

## c. COURSE DURATION & NATURE

- 1) This is full time three semester (1.5 yrs) course, which includes 2 semesters [Theory & practicals] in the institute & followed by hospital training in the final semester.

The final semester comprises of hospital training in the radiology & imaging department or in diagnostic centre for a period of six months & submission of project at the end of the training period.

## d. ELIGIBILITY FOR ADMISSION

- 1) This course is open to all science stream graduates viz. B.Sc with Physics, Chemistry, Microbiology, Life Science, Zoology, Biochemistry & Biotechnology.

Para medics like BSc nursing, B.Pharm are also eligible Medical graduates like M.B.B.S, B.A.M.S, B.H.M.S; B.U.M.S & B.D.S can also enrol for this course.

- 2) For admission a candidate must have passed qualifying examination with minimum 50% marks (open catg) & minimum 45% marks (reserved catg)

## e. curriculum & course contents

Detailed curriculum will be provided at the beginning of the course after admission. However following subjects/ topics will be covered.

- Semester 1** --
- a) communication skills
  - b) Human anatomy & physiology
  - c) X-ray radiographic instrumentation

d) X-ray scanning technique in diagnostic imaging

- Semester 2** --
- a) basic principal of ultra sound
  - b) Instrumentation of ultra Sonography
  - c) Knobology of ultra Sonography
  - d) Real time sound equipments

- Semester 3** --
- a) hospital training
  - b) Project on the hospital training
  - c) Seminar in the project

#### **f. ADMISSION PROCEDURE & POLICY**

- 1) Student should apply for the application form available with prospectus on payment of prescribed fees.
- 2) Completed application form along with attested copies & documents should be submitted to the institute along with the prescribed registration fees.
- 3) Admission to course will be strictly on the merit basis as per government rules.
- 4) Reserved category seats will be filled as per government directives issued from time to time.

#### **g. FACULTY**

The lectures will be conducted by expert & experienced faculty drawn from medical profession & Institutes in addition to full time faculty as per norms of Board of Technical Education, visiting professor & speaker will also be invited.

#### **h. LIBRARY**

The library is stocked with latest edition of all the important titles pertaining to the subjects which will suffice the need of the students. A number of periodicals & journals on the subject are also available.

*Payment of fees by DD favouring institute, refund of fees as per MSBTE rules.*