

BACHELOR OF SCIENCE (Hons) Radiology and Imaging Technology

OVERVIEW of B.Sc. (Hons) RIT

“Radiography and Imaging is the health profession concerned with the direct administration of radiation, primarily x-rays, in disease diagnosis and injury assessment. Medical imaging studies have been a cornerstone in medical diagnosis for decades; however, technological advances and the addition of new imaging modalities now place medical imaging among the most dynamic, expanding and high demand fields in clinical medicine”.



Eligibility Criteria:

- **Intermediate** /HSC / CBSE or Equivalent Examination with 50% marks with one of the following subject combinations. Biology, Physics, Chemistry and Mathematics
- **DMRIT / DRIT** students are eligible to join BSc. (Hons) RIT after their diploma completion.

CAREER PATH

Diagnostic Radiographers/technologists possess, utilize and maintain knowledge of radiation protection and safety. Radiographers have an extremely thorough understanding of the structure of the body, how the body can be affected by injury, and causes and effects of disease when taking X-ray images. Their work does include a wide range of different imaging modalities radiographers are the primary liaison between patients, radiologist and other members of the support team.

- X-ray - Penetrate through the body to examine and view internal structures
- Fluoroscopy uses X-rays to obtain real-time moving images of the internal parts of the body.
- CT (Computed Tomography) provides cross-sectional views / images of the body using computer with the help of X-Rays.
- MRI (Magnetic Resonance Imaging) - images of the different tissue types within the body using

strong magnet and RF waves

- Ultrasound – uses high frequency sound waves to produce images of the structure within the body. It is well known for its use in obstetrics and gynecology. Also used to check circulation and examine the heart
- Angiography – radiological study which is used to investigate blood vessels.
- Mammography-Imaging of the soft tissue breast
- DEXA—Bone Densitometry.

CAREER PROGRESSION

After completion of this BSc. (Hons) RIT program, a Radiology & Imaging Technologist gets opportunities to work at various health care institutes under designations as:

- Radiographer
- Radiological Technologist
- X-ray Technologist
- CT scan Technologist
- MRI Technologist
- Mammography Technologist
- Cathlab Technologist
- Ultrasonography Technologist
- Applications Specialist
- Radiological Safety Officer
- Interventional Technologist
- Sales and marketing of radiology industry
- Diagnostic Manager, etc.
- Other Administrative posts in Medical Imaging department & hospital.
- Teaching & research faculty in Medical colleges
- Research Scientists in Medical imaging industry

JOB AVAILABILITY IN FIELD

Diagnostic radiography is a fast-moving and continually changing profession, and long-term career prospects include: management, research, clinical work, teaching etc

The program aims to train human resources with requisite skills in the area of radiology & imaging technology who can be hired in all kinds of healthcare settings including:

- Hospitals
- Diagnostic and Medical Labs
- Medical Records and Transcription organisations
- Clinical and Medical Research organisations

- Pharma and Bio-Tech companies
- Medical equipment and device companies

Global Outreach:

The students and aspirants who wish to pursue higher studies in this field can opt for the, following courses can also travel to USA, Australia, Germany, France, UK, New Zealand, Spain, Singapore Canada, Switzerland, Europe, Malaysia, Sweden, United Arab Emirates.

All the best!