

COURSE: - B.SC MEDICAL IMAGING TECHNOLOGY

INTRODUCTION: The Bachelor of Science in Medical Imaging Technology helps to develop skilled radiographer, qualified to provide patient care services in intervention procedures, computed tomography, ultrasonography and magnetic resonance imaging. In the course of study, medical imaging technologists use principles of radiation protection as they determine exposure factors and position of patient for a variety of examinations in various procedures. They can also assist during surgical procedures performed during an examination, assessing the technical quality of the images and providing basic patient care. Medical imaging technologists function as members of the health care team, performing diagnostic imaging procedures in hospitals, clinics, and other health care settings.

Objectives: The course aims at

- Providing better patient care & diagnosing the patient in accurate manner & direction to achieve optimum result by the Medical Professionals.
- Making the students aware of various radiations safety measures meant for staff members and general public.

Duration: - Duration shall be for a period of Four years including twelve months of Internship.

Course Structure:

First Semester Subjects <ul style="list-style-type: none">• Anatomy• Physiology• Biochemistry• Medical Terminology• English	Second Semester Subjects <ul style="list-style-type: none">• Pathology• Microbiology• Pharmacology• Kannada• Healthcare	Third Semester Subjects <ul style="list-style-type: none">• Physics of Radiology• Radiation Physics• Radiographic film & Image processing• Computer application/programming• Environment science and Health
Fourth Semester Subjects <ul style="list-style-type: none">• Medical Physics• Radiographic Photography and Image Processing• Mammography, fluoroscopy and mobile radiography• Biostatistics and Research methodology• Constitution of India	Fifth Semester Subjects <ul style="list-style-type: none">• Physics of ultrasound & CT• Radiography of spine and extremities• Contrast media: reactions and management & special radiography procedures• Medical Psychology	Sixth Semester Subjects <ul style="list-style-type: none">• Physics and hardware of MRI & Nuclear Medicine• Radiography of chest, abdomen, pelvis & skull• Recent advances & guided radiological procedures• Hospital management

Special features:

- Ultramodern 16-Slice CT facility in attached Srinivas Hospital.
- High Tech 4D Ultra sound with Colour Doppler facility in attached Srinivas Hospital.
- A full fledged Radiology department with mobile and static Xrays (30 mA, 60 mA, 300 mA, 600 mA, 800 mA)
- Good exposure to technical knowhow of MRI & Mammogram facility which is available in attached Srinivas Hospital.

Career opportunities:-

- Pursue Masters & specialise in any of the imaging modalities.
- Work as an imaging technologist in hospitals & clinics with radio diagnostic facilities like MRI, CT scan, mammography & X-rays.
- Work as an application specialist in medical imaging equipment companies like Philips, GE Health Care.
- Work in educational institutions.
- Pursuing research activities in medical imaging technology.