(139-MED-30-03) MD- RADIODIAGNOSIS

Significance of Program

After completing MD Radiodiagnosis course, students can find highly respected and lucrative job opportunities in private as well as public sectors in Hospitals, Scientific Studies, Private Clinics, Research Centers and teaching faculty in medical colleges.

Career Options

The scope of Radiology in India is broad, offering opportunities in hospitals, diagnostic imaging centers, and research labs. Radiologists can specialize in areas like MRI, CT scans, or ultrasound teaching faculty in medical colleges

Program Objectives

A Resident on completing his / her MD (Radio Diagnosis) 1. Acquir good basic knowledge in the various sub – specialties of Radiology such as Neuroradiology, GI radiology, Uroradiology, Vascular Radiologyj, Musculokeletal, Interventional Radiology, Emergency Radiology, Paediatric Radiology and Imaging of breast 2. Independently conduct and interpret all routine and special radiolocia and imaging investigations. 3. Provide radiological services in acute emergency an trauma including its medicolegal aspects. 4. Elicit indications, diagnostic features and limitations of applications of ultrasound, CT and MRI and should be able to describe proper cost effective algorithm of various imaging techniques in a given problem setting.

Outcomes of the Program

On completion of the course, students acquire a defined body of knowledge and procedural skills which will be used to perform diagnostic and therapeutic procedures and to make appropriate clinical decisions. The course endeavours to develop students' analytical and problem-solving skills necessary to function as effective diagnostic radiologists. Candidates are expected to adapt their cognitive and observation skills to enable accurate interpretation of the various medical imaging modalities employed in modern radiology. The course aims to ensure that the qualified radiologist will continue to keep up to date with new developments in imaging, and make learning, teaching and research a part of the professional career. Candidates will be able to collaborate effectively with other health professionals for the provision of optimal patient care, education and research.

Major Course Outline

- Basic concepts
- Production of X- rays
- Interaction of radiation with matter
- Radiography
- Fluoroscopy
- Special radiography
- Modern Imaging systems
- Nuclear Medicine
- Radiation Biology : Bilogical effects of Radiation
- Radiation protection Natural radiation

CORE	Electives	Skill Course
radiation physics	Imaging systems	Perform medical imaging procedures with or without help from an imaging specialist. Review and interpret medical images from their examination. Provide treatment recommendations and advocate further testing based on imaging results. Offer medical advice to physicians and other medical specialists.