

Objective - Student will learn about the advance technology of various imaging modalities and parameter used for handle them.

UNIT - 1

- dual energy CT scan
- Dual-spin scanners
- Fast kVp switching
- Dual-source scanners
- Dual-layer detectors
- Photon-counting detector

UNIT -2

- cone beam CT scan
- portable CT scan
- Phase contrast CT scan

UNIT -3

- Full field digital mammography
- Contrast enhanced digital mammography
- Breast tomosynthesis

UNIT-4

- Ct laser mammography
- Scintimammography
- Optical mammography
- PET mammography

Recommended books:

- COMPUTED TOMOGRAPHY for TECHNOLOGISTS A Comprehensive Text
- CT Teaching Manual: A Systematic Approach To CT Reading Second Edition
- Medical X-Ray Techniques in Diagnostic Radiology: A Textbook for Radiographers and Radiological