**Principles of CT and Mammography BVORAD-302**

**UNIT-1**

Description of CT, its Working Mechanism & Physical Principles,Limitations of radiography and conventional tomography, Lambert-Beer's law, Homogenous and a heterogenous beam of radiation, Data acquisition geometry and data processing, CT numbers and the linear attenuation coefficient. High kVp CT

**UNIT 2**

CT numbers and the gray scale of the CT image.

Window Width (WW)

Window Level (WL) Format of the CT image.

Field of view (FOV), pixel size and matrix size.

Identify the equipment components that make up a CT

**UNIT-3**

Physics and Basic Principle of Mammography,Generations Of Mammography,Alternative

modalities and pathological indications of mammography,Pathologic Indications for

Mammography,Clinical applications for

Mammography,ScreeningMammography,DiagnosticMammography,Advantages and

Disadvantage of Mammography