

BME 581 : Medical Imaging Systems

Overview of the physics of medical image analysis. Topics covered include X-Ray tubes, fluoroscopic screens, image intensifiers; nuclear medicine; ultrasound; computer tomography; nuclear magnetic resonance imaging. Image quality of each modality is described mathematically, using linear systems theory (Fourier transforms, convolutions).

Department

Biomedical Engineering

Credits 3.0

Prerequisites

Signal analysis course BME/ECE 4011 or equivalent