

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Biotechnology - NOC:Introduction to Biomedical Imaging Systems

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Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction - 1
Lecture 2 - Introduction - 2
Lecture 3 - Signals and Systems Overview
Lecture 4 - Important Signals
Lecture 5 - System
Lecture 6 - LSI Systems
Lecture 7 - Image Quality
Lecture 8 - Local Contrast
Lecture 9 - Blurring and Noise
Lecture 10 - Physics of Radiography
Lecture 11 - Types of Ionizing Radiations
Lecture 12 - EM Radiation
Lecture 13 - Attenuation Models
Lecture 14 - Radiation Dosimetry
Lecture 15 - PR_Instrument
Lecture 16 - PR_Instru_CA
Lecture 17 - PR_Image_formation
Lecture 18 - Imaging Equation_updated
Lecture 19 - Film screen_Optical Density
Lecture 20 - PR_Image Quality
Lecture 21 - CT_Intsru
Lecture 22 - CT_Instru_finish
Lecture 23 - CT Back projection
Lecture 24 - CT_BP_finish
Lecture 25 - Fan beam_IQ
Lecture 26 - CT_IQ_Artifact
Lecture 27 - Nuclear Med_Phys
Lecture 28 - Nuclear_Med_Radiotracers
Lecture 29 - Planar_Scintigraphy_Instru

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- Lecture 30 - Planar_Scintigraphy_Im and IQ
- Lecture 31 - Spect_Pet
- Lecture 32 - Ultrasound_Intro_Phys
- Lecture 33 - Ultrasound_Phys_Interactions
- Lecture 34 - US doppler and Instrumentation
- Lecture 35 - US_Beampattern
- Lecture 36 - Approximations
- Lecture 37 - US_Imaging Equation_modes
- Lecture 38 - Parameters of interest
- Lecture 39 - Beam Steering : Phased Array
- Lecture 40 - MRI_Intro_S1-S9
- Lecture 41 - MRI_Phys_S10-S16
- Lecture 42 - MRI_Phys_S17-S20
- Lecture 43 - MRI_Phys_S21-S28
- Lecture 44 - MRI_Phys_S29-S39
- Lecture 45 - MRI_Phys_S40-S44
- Lecture 46 - MRI_Phys_S45_S52
- Lecture 47 - MRI_Instru_S1_S16
- Lecture 48 - MRI_Instru_s17_s26
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- Lecture 50 - MRI_Freq_Encode_S42_S60
- Lecture 51 - MRI_DAQ_S61_S69
- Lecture 52 - MRI_RECON_S70_S82
- Lecture 53 - MRI_IQ_S83_S96