

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

NPTEL Video Course - Physics - NOC:Radio Astronomy

Subject Co-ordinator - Prof. Abhirup Datta

Co-ordinating Institute - IIT - Indore

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

Lecture 1 - Introduction to Radio Astronomy
Lecture 2 - Review of Electromagnetism - Part 1
Lecture 3 - Review of Electromagnetism - Part 2
Lecture 4 - Radio Astronomy - Tutorial 1
Lecture 5 - Milestones in Radio Astronomy
Lecture 6 - Radio Astronomy Fundamentals - Part 1
Lecture 7 - Radio Astronomy Fundamentals - Part 2
Lecture 8 - Radiative Transfer - Tutorial 1
Lecture 9 - Fundamentals of Antenna
Lecture 10 - Fundamental of Antenna Theory - Part 1
Lecture 11 - Fundamental of Antenna Theory - Part 2
Lecture 12 - Fundamental of Antenna Theory - Part 3
Lecture 13 - Signal Processing and Receivers
Lecture 14 - Signal Proceeding and Receivers - Part 2
Lecture 15 - Radio Telescopes
Lecture 16 - Single Dish Observations
Lecture 17 - Demonstration of Antenna Design and Simulation - Part 1
Lecture 18 - Demonstration Of Antenna Design and Simulation - Part 2
Lecture 19 - What Have we Learnt so Far? - A Review
Lecture 20 - Demonstration of Antenna Design and Simulation - Part 3
Lecture 21 - Co-ordinate System
Lecture 22 - Radio Interferometers
Lecture 23 - Example Questions
Lecture 24 - Python Crash Course
Lecture 25 - Few Concepts with the help of python as a computational tool
Lecture 26 - Live session
Lecture 27 - Example Questions
Lecture 28 - Radio Interferometry and Aperture Synthesis
Lecture 29 - Introduction to CASA

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Lecture 30 - Examples
Lecture 31
Lecture 32
Lecture 33 - Revision
Lecture 34 - Revision