

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

NPTEL Video Course - Physics - N0C:Optical Sensors

Subject Co-ordinator - Prof. Sachin Kumar Srivastava

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction
- Lecture 2 - Sensor Fabrication and Characterization
- Lecture 3 - Basic Optics for Optical Sensing - I
- Lecture 4 - Basic Optics for Optical Sensing - II
- Lecture 5 - Basic Optics for Optical Sensing - III
- Lecture 6 - Basic Optics for Optical Sensing - IV
- Lecture 7 - Basic Optics for Optical Sensing - V
- Lecture 8 - Basic Optics for Optical Sensing - VI
- Lecture 9 - Basic Optics for Optical Sensing - VII
- Lecture 10 - Plasmons - I
- Lecture 11 - Plasmons - II
- Lecture 12 - Plasmons - III
- Lecture 13 - Plasmons - IV
- Lecture 14 - Plasmons - V
- Lecture 15 - Plasmons - VI
- Lecture 16 - Multiple Optical Sensors of Different Mechanisms
- Lecture 17 - Interference based Sensors
- Lecture 18 - Interference, Diffraction and Optical Fiber Sensors
- Lecture 19 - Review of Biomaterial Optics
- Lecture 20 - Terahertz Based Detection and Circular Dichroism