

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

NPTEL Video Course - Civil Engineering - NOC:Remote Sensing of Leaf Area Index and Primary Productivity

Subject Co-ordinator - Prof. MD Behera

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Leaf Area Index - Definition and Basics
- Lecture 3 - Leaf Area Index - Field Measurements
- Lecture 4 - Remote Sensing - Story of Matter and Energy Interactions
- Lecture 5 - Remote Sensing - Optical Properties of Leaf and Canopy
- Lecture 6 - LAI- Optical RS Methods: Empirical Transfer Functions
- Lecture 7 - LAI Estimation - RS Methods: Model Inversion
- Lecture 8 - LAI Estimation - LiDAR and Microwave RS Methods
- Lecture 9 - LAI- Global Data Products
- Lecture 10 - LAI Products - Challenges and Future Prospects
- Lecture 11 - RS of Primary Productivity - Introduction and Overview
- Lecture 12 - RS of Primary Productivity - VIs and LUE
- Lecture 13 - RS of Primary Productivity - Process Based Models
- Lecture 14 - RS of Primary Productivity Methods - SIF
- Lecture 15 - RS of Primary Productivity Methods - LST, ML, Inversion/Passive RS
- Lecture 16 - LAI Applications: Phenology, Climate and LSMs
- Lecture 17 - RS of Primary Productivity - Uncertainties and Challenges - LUE
- Lecture 18 - LAI Applications: Indian Examples
- Lecture 19 - Primary Productivity Applications: Indian Examples
- Lecture 20 - Primary Productivity Applications: Indian Examples and Way Forward

---

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>