

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

NPTEL Video Course - Agriculture - NOC:GIS in Ag-Essentials and Applications (GIS)

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Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction
Lecture 2 - Our Agriculture Practices and Lessons
Lecture 3 - Climate and Scale of Change
Lecture 4 - Course Corrections
Lecture 5 - Modified Agriculture - Precision Agriculture
Lecture 6 - Modified Agriculture Practice - Climate Smart Agriculture
Lecture 7 - Maps and Information in Practice
Lecture 8 - Geographical Information System (GIS)
Lecture 9 - Types of input
Lecture 10 - Analysis - Map overlay
Lecture 11 - Buffering and Perspective View
Lecture 12 - GIS Type and Available GIS Softwares
Lecture 13 - Village Cadastral Map and Property Card
Lecture 14 - Cadastral Maps and Contents
Lecture 15 - Creation of Cadastral Information Base
Lecture 16 - Land Information System
Lecture 17 - Creation of Village Boundary Based Basin Analysis
Lecture 18 - Village Information System
Lecture 19 - Needs and Weather Forecast
Lecture 20 - Cloud Types and Rain Bearing Clouds
Lecture 21 - Weather Satellites and Cloud Pattern Reading
Lecture 22 - Rainfall and Supplementary Irrigation
Lecture 23 - Synergistic Use
Lecture 24 - Surface Rainfall - Run off Assessment and Model
Lecture 25 - Soil and Water Assessment Tools (SWAT) Model
Lecture 26 - Groundwater Availability
Lecture 27 - Groundwater Potential Mapping
Lecture 28 - Water Storage and Water Availability and Release
Lecture 29 - Growth of Crop Area in Command Area and Impact Climate Change

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- Lecture 30 - Impact of Climate on Agriculture
- Lecture 31 - Crop Water Requirement and Distribution Loss
- Lecture 32 - Village Agriculture and Other Water Demand and Supply Source
- Lecture 33 - Water Security Assessment
- Lecture 34 - Land Degradation
- Lecture 35 - Water Logging
- Lecture 36 - Water Balance Under Different Rainfall
- Lecture 37 - Drought and Characteristics
- Lecture 38 - Drought Vulnerability and Risk Assessment
- Lecture 39 - Monitoring and Warning
- Lecture 40 - Drought Monitoring
- Lecture 41 - Drought Risk and Vulnerability Assessment
- Lecture 42 - GIS in Sustainable Agriculture
- Lecture 43 - Assessment of Existing Water Storage Structures and Rehabilitation
- Lecture 44 - Sustainable Development and Agriculture
- Lecture 45 - Climate Change and Drought
- Lecture 46 - GIS and Drought Management