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

NPTEL Video Course - General - NOC: Introduction to Remote Sensing

Subject Co-ordinator - Dr.Arun K.Saraf

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - What is satellite based remote sensing? Lecture 2 - Development of remote sensing technology and advantages Lecture 3 - Different platforms of remote sensing. Lecture 4 - Electromagnetic Spectrum, solar reflection and thermal emission Lecture 5 - Interaction of EM radiation with atmosphere including atmosheric scattering, absorbtion and emiss Lecture 6 - Interaction machanism of EM radiation with ground and spectral response curve Lecture 7 - Principles of image interpretation Lecture 8 - Multi-spectral scanners and imaging devices Lecture 9 - Salient characteristics of Landsat, IRS, Cartosat, Resourcesat sensors Lecture 10 - Image characteristics and different resolutions in Remote Sensing Lecture 11 - Image interpretation of different geological landforms, rock types and structures Lecture 12 - Remote Sensing Integration with GIS and GPS Lecture 13 - Geo-referencing Technique Lecture 14 - Basic Image Enhancement Techniques Lecture 15 - Spatial Filtering, Band ratio and Principal Component Analysis techniques Lecture 16 - Image Classification Techniques Lecture 17 - InSAR Techniques in its applications Lecture 18 - Hyperspectral Remote Sensing Lecture 19 - Integrated applications of RS and GIS in groundwater studies

Lecture 20 - Limitations of Remote Sensing Techniques

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