Remote Sensing of land and water resources (CE 605)

Course contents: An overview of remote sensing, Electromagnetic radiation principles, Remote sensing data collection, Geometric correction, Image enhancement, Image interpretation, Image classification, Band transformation, Thermal infrared remote sensing, Change detection, Feature extraction, Monitoring of land and water resources, Accuracy assessment, Remote sensing of soil, vegetation, water, and urban areas, Object oriented classification, and Spectral Indices

References

Jenson, J. R., Introductory digital image processing, 3rd edition, 2005

Jenson, J. R. , Remote Sensing of the Environment: An Earth Resource Perspective, 2nd edition

Lillesand, K., Remote Sensing and Image Interpretation, 6th edition