

## Special Course on Remote Sensing, GIS and GNSS Technology

**Duration- April 13, 2020 to April 25, 2020**

**Total Sessions- 23**

| <b>Date</b> | <b>Day</b> | <b>Time</b>   | <b>Topic</b>  | <b>Speaker</b>                            |
|-------------|------------|---------------|---|---|
| 13/04/2020  | Monday     | 1100-1230 Hrs | Basic Principles of Remote Sensing  | Dr. Manu Mehta                            |
| 13/04/2020  | Monday     | 1500-1630 Hrs | Earth Observation Sensors & Platforms   | Mr. Vinay Kumar                           |
| 14/04/2020  | Tuesday    | 1100-1230 Hrs | Spectral Signatures Of Different Land Cover Features & Visual Image Interpretation  | Dr. Hina Pande                            |
| 14/04/2020  | Tuesday    | 1500-1630 Hrs | Data Image Processing: Basic Concepts, Rectification & Registration                 | Mrs. Minakshi Kumar                       |
| 15/04/2020  | Wednesday  | 1100-1230 Hrs | Image Enhancement Techniques: Contrast, Filtering Transformations                   | Mrs. Minakshi Kumar                       |
| 15/04/2020  | Wednesday  | 1500-1630 Hrs | Image Classification Techniques: Unsupervised, Supervised & Separability Analysis   | Dr. Poonam S Tiwari.                      |
| 16/04/2020  | Thursday   | 1100-1230 Hrs | Digital Change Detection & Accuracy Assessment                                      | Dr. Poonam S Tiwari.                      |
| 16/04/2020  | Thursday   | 1500-1630 Hrs | Introduction To GPS & GNSS  | Dr. Ashutosh Bhardwaj                     |
| 17/04/2020  | Friday     | 1100-1230 Hrs | GPS Receivers, Processing Methods, Errors & Accuracy                                | Dr. Ashutosh Bhardwaj                     |
| 17/04/2020  | Friday     | 1500-1630 Hrs | Satellite Based Augmentation Systems & GPS Aided & Geo Augmented Navigation (GAGAN) | Dr. Ashutosh Bhardwaj                     |
| 18/04/2020  | Saturday   | 1100-1230 Hrs | Indian Regional Navigation Satellite System (IRNSS)/NavIC                           | Er. Ashutosh Bhardwaj & Shri Kamal Pandey |
| 20/04/2020  | Monday     | 1500-1630 Hrs | Mobile GIS – An overview  | Mr. Kamal Pandey                          |
| 20/04/2020  | Monday     | 1100-1230 Hrs | Introduction To GIS   | Dr, Sameer Saran                          |
| 21/04/2020  | Tuesday    | 1100-1230 Hrs | Geographic Phenomena, Concepts & Examples   | Shri Prasun Kumar Gupta                   |
| 21/04/2020  | Tuesday    | 1500-1630 Hrs | Data Inputting & Editing In GIS   | Shri Shiva K. Reddy                       |
| 22/04/2020  | Wednesday  | 1100-1230 Hrs | GIS Data Models (Spatial & Non – Spatial)   | Shri Ashutosh Kumar Jha                   |
| 22/04/2020  | Wednesday  | 1500-1630 Hrs | Map Projection Concepts & Use In GIS & RS   | Dr. Ashutosh Shrivastav                   |

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|-------------|------------|---------------|--|-----------------------------------|
| 23/04/2020  | Thursday   | 1100-1230 Hrs | Spatial Analysis –<br>Introductory Concepts &<br>Overview        | Shri Prabhakar<br>Alok Verma      |
| 23/04/2020  | Thursday   | 1500-1630 Hrs | Spatial Analysis –<br>Functionality & Tools                      | Shri Kapil Oberai                 |
| 24/04/2020  | Friday     | 1100-1230 Hrs | Data Quality & Policies OGC,<br>NSDI & GSDI Initiatives.         | Dr. Harish<br>Chandra<br>Karnatak |
| 24/04/2020  | Friday     | 1500-1630 Hrs | Demonstration on QGIS-<br>Basic GIS operations and<br>Analysis   | Mr. Prasun<br>Kumar Gupta         |
| 25/04/2020  | Saturday   | 1100-1230 Hrs | Concept of Online GIS – An<br>Introduction to Geoweb<br>Services | Dr. Harish<br>Chandra<br>Karnatak |
| 25/04/2020  | Saturday   | 1500-1630 Hrs | Geodata Processing using<br>Python- An overview                  | Mr. Ravi<br>Bhandari              |