

IIRS Outreach Program

113rd Outreach Course

Overview of Geoprocessing using Python

Feb 20-24, 2023

Course Schedule:

Date	Lecture-1 (1100:1200 Hours)	Resource Person	Lecture-2 (1600:1700 Hours)	Resource Person
20-Feb-23	Fundamentals of Remote Sensing & Geographic Information System	Kamal Pandey	Introduction to Anaconda, Jupyter Notebook and Overview of Python	Ravi Bhandari
21-Feb-23	Introduction to Numpy and data visualization	Ravi Bhandari	Reading single band and multiband raster image and Visualizing Raster data, creating various false color composites.	Ravi Bhandari
22-Feb-23	Writing raster data in different data formats, image format conversion	Ravi Bhandari	Various Operations on Raster Data Stacking, , Sub setting, Reprojecting etc.	Ravi Bhandari
23-Feb-23	Raster Data processing (Mosaicing, Local Analysis, Proximity etc)	Ravi Bhandari	Reading and Writing Vector data using GeoPandas	Ravi Bhandari
24-Feb-23	Vector Data Analysis using Geopandas	Ravi Bhandari	Panel Discussion	Kamal Pandey, Ravi Bhandari, Dr Harish Karnatak

(Ravi Bhandari)

Module Coordinator

(Dr. Harish Karnatak)

Head, GITDL