

Workshop on Python for Scientific Calculation, Data Handling and Remote Sensing

3rd, 4th, 6th, and 7th Feb., 2020 (4 days)

Dr. Muhammad Toqeer

Venue: Geospatial Research & Education Lab (GREL),
2nd Floor, Block-1
Institute of Space Technology, Islamabad

Course Materials: <http://grel.ist.edu.pk/lms>

Day 1 - Monday - 3rd Feb.

Timing (hrs)	Module / Activity
1000 - 1015	Workshop Registration / GREL LMS Account
1015 - 1030	Introduction of the Workshop and Participants
1000 - 1300	Getting started with Python, Setting up Miniconda environments, Jupyter notebooks
1300 - 1400	*** Lunch Break ***
1400 - 1530	Working with IDE
1530 - 1600	*** Tea Break ***
1600 - 1700	Diving into Python

Day 2 - Tuesday - 4th Feb.

Timing (hrs)	Module / Activity
1000 - 1130	Working with NumPy
1130 - 1300	Working with SciPy
1300 - 1400	*** Lunch Break ***
1400 - 1530	Data visualization in Python
1530 - 1600	*** Tea Break ***
1600 - 1500	Scientific calculation in Python



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Day 3 – Thursday – 6th Feb.

Timing (hrs)	Module / Activity
1000 - 1300	Spatial data handling
1300 - 1400	*** Lunch Break ***
1400 - 1530	Spatial data queries
1530 - 1600	*** Tea Break ***
1600 - 1700	Map projections and static maps

Day 4 – Friday – 7th Feb.

Timing (hrs)	Module / Activity
1000 - 1300	Remote sensing and raster data handling
1300 - 1400	*** Lunch Break ***
1400 - 1530	Raster data types, ingestion, and extraction
1530 - 1600	*** Tea Break ***
1600 - 1700	Raster data visualization