

Workshop on Customizing ArcGIS with Python

2nd- 5th September, 2019

Dr. Muhammad Athar Javaid

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 – 2nd September

Timing (hrs)	Module / Activity
0930 - 0945	Workshop Registration / GREL LMS Account
0945 - 1000	Introduction of the Workshop and Participants
1000 – 1100	Module 1: Customization, Why, What, and How
1100 – 1130	Module 1: Introduction to Python - A Scripting and Programming Language
1130 – 1200	*** Tea Break ***
1200 – 1230	Module 2: Python Syntax - Variables, Arrays (List), Decision, Loop, Functions, File read & write
1230 – 1400	<u>Hands-on Activity:</u> Variables, arrays (List), Decision, Loop, Functions, File read & write
1400 – 1500	*** Lunch Break ***
1500 – 1520	Module 3: Access Python in ArcGIS
1520 – 1615	<u>Hands-on Activity:</u> GUI Customization
1615 – 1630	*** Tea Break ***
1630 – 1530	<u>Hands-on Activity:</u> GUI Customization

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Day 2 - Tuesday - 3rd September

Timing (hrs)	Module / Activity
0930 - 1000	Module 4: Working with Raster Layer
1030 - 1100	<u>Hands-on Activity:</u> Python reads Raster Data
1130 - 1200	*** Tea Break ***
1200 - 1300	Module 5: Working with Vector Layer
1300 - 1400	<u>Hands-on Activity:</u> Python reads Vector Data
1400 - 1500	*** Lunch Break ***
1500 - 1615	<u>Hands-on Activity:</u> Python reads Attribute Data
1615 - 1630	*** Tea Break ***
1630 - 1700	Module 6: Working with Map file (Coordinates and Metadata)
1700-1800	<u>Hands-on Activity:</u> Python reads Map File



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Day 3 – Wednesday – 4th September

Timing (hrs)	Module / Activity
0930 – 1000	Module 7: Python for Spatial Analysis
1000 – 1130	<u>Hands-on Activity:</u> Accessing Spatial Analysis Tools with Python
1130 – 1200	*** Tea Break ***
1200 – 1400	<u>Hands-on Activity:</u> Continue the Exercise
1345 – 1500	*** Lunch Break ***
1500 – 1600	Module 8: Writing Algorithm
1600 – 1615	<u>Hands-on Activity:</u> Write an Algorithm (First example, Raster based)
1615 – 1630	*** Tea Break ***
1630 – 1800	<u>Hands-on Activity:</u> Continue First Example



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Day 4 - Thursday - 5th September

Timing (hrs)	Module / Activity
0930 - 1000	Module 8: Writing Algorithm
1000 - 1130	<u>Hands-on Activity:</u> Write an Algorithm (Second Example, Coordinate based)
1130 - 1145	*** Group Photo ***
1145 - 1200	*** Tea Break ***
1200 - 1400	<u>Hands-on Activity:</u> Continue Second Example
1400 - 1500	*** Lunch Break ***
1500 - 1615	Python Resources, Applications, and Resources
1615 - 1630	*** Tea Break ***
1630 - 1800	Closing Session / Feedback / What Next