

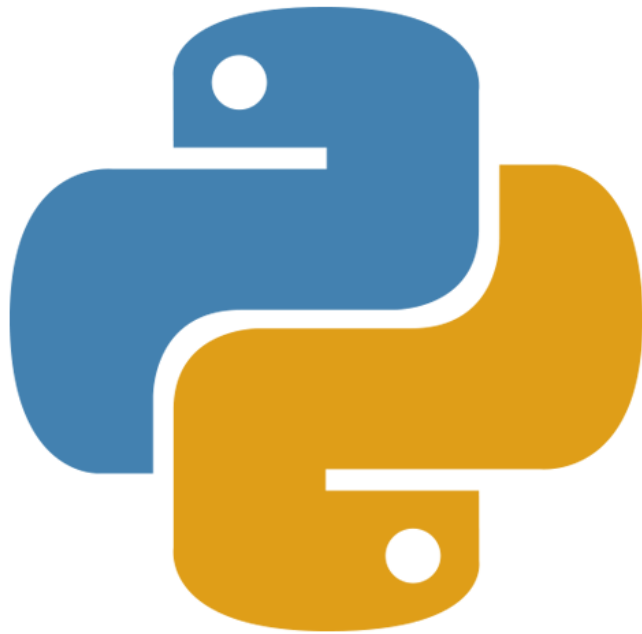


INTERNATIONAL INSTITUTE OF GEOSPATIAL SCIENCE & TECHNOLOGY (IIGST)

(A constituent unit of SAIARD)

Presents

4th Three Months Online Certificate Course on



Python Libraries

For GIS and Mapping

17th July 2021 onwards

 **Platform: Google Meet**

Knowledge Support

Areas to be covered are:

1. Introduction • 1.1 Why Python - Advantages and Disadvantages • 1.2 Why is Python called interpreted? • 1.3 Interesting facts and Features of Python • 1.4 Python Installation and various IDE • 1.5 Use of Python in GIS • 1.6 Let's start Python program

2. Basic Concepts • 2.1 Syntax and comments • 2.2 Variables, Data Types & Type Casting • 2.3 Basic operators and operations • 2.4 Decision Making and loops • 2.5 Data Structures & their methods • 2.5.1 Lists • 2.5.2 Tuples • 2.5.3 Sets • 2.5.4 Dictionary • 2.6 Functions • 2.7 Scope & Modules

3. Advanced Concepts • 3.1 OOP concepts • 3.2 Class & Objects • 3.3 Constructors in Python • 3.4 Method Overloading in Python • 3.5 isinstance in Python • 3.6 Descriptors • 3.7 Multiprocessing and multithreading in Python • 3.8 Database Access • 3.9 XML processing

4. Python In GIS • 4.1 Introducing Python Using the Python Window in ArcGIS • 4.2 Introducing ArcPy and using ArcPy Modules • 4.3 GIS data access and manipulation with Python • 4.4 Python for GIS analysts • 4.5 Approach of python scripting in GIS • 4.6 Introduction of PyQgis • 4.7 Introduction to open-source Libraries handling Geospatial data • 4.8 GDAL/OGR • 4.9 GEOPANDAS • 4.10 RASTERIO • 4.11 OPENCV

The course curriculum followed

This two weeks capacity building program includes: theory practical (hands on training sessions) with interactive sessions with experts and project work.

📄 Tutorials with data

📄 Teaching and learning resources

The main features of this program is : Structured curriculum with a tentative program schedule.

Class Timing: 7.00–8.30 pm in each Saturday and Sunday

Application Link: <https://cutt.ly/anbgqck>

Registration fees: 1000/- (INR)

Bank Details:

Just scan the QR code & pay or pay in the given bank account

Bank- SBI

Account No- 38377901244

IFSC Code- SBIN0016629

Beneficiary Name- SAIARD



E-Certificate will be provided on behalf of IIGST

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