PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS022/2022

Python in Hydrology
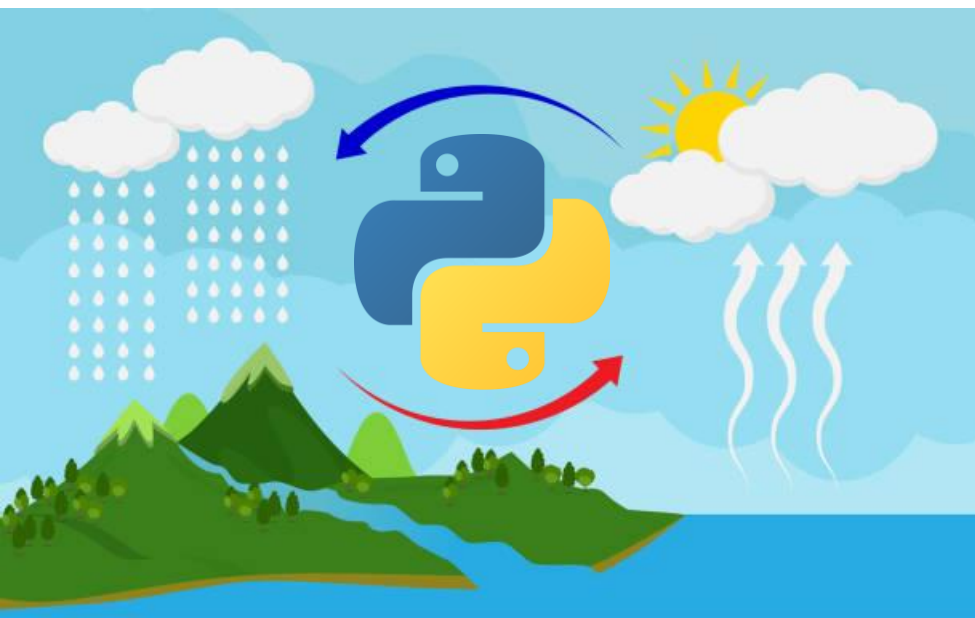
Name of the PMRF student

Shubham Goswami

Required background of the students taught

B.Tech : Civil Engineering
M.Tech /Ph.D.: Hydrology/ Water Resources/ other similar specializations

(Requires basic knowledge of Hydrology)

Online session coordinator

Will be chosen from the list of registrants

Details of the content of the module

1. **Introduction to Python**

    1. Installation

    2. Data Types

    3. Control Flow

    4. Functions

    5. Basic Plotting

2. **Application of Python in Hydrology**

    1. Basic Applications

    2. Statistical tools for Hydrology

    3. Numerical Techniques in Hydrology

    4. Introduction to GIS data in Python

    5. Advanced plotting in Hydrology

The course will focus on application-oriented Python learning and step-by-step coding procedure.

Schedule of the module

Start Date: 27th August 2022

End Date: 4th September 2022

Class Timing: Saturday and Sunday (10:00 – 13:00 and 14:30 – 17:30)

Meeting link : Will be shared after registration

Contact email ID: isss.forum@gmail.com

 Registration link:
https://forms.gle/7b9BsCT3fNbmjVw2A