MARATHWADA MITRA MANDAL'S
COLLEGE OF COMMERCE
Affiliated to Savitribai Phule Pune University, Re-Accredited by NAAC with "A" Grade
ISO 9001:2015 Certified, Awarded as Best College by Savitribai Phule Pune University
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Date:-30/01/2022

IIRS ISRO Nodal Center

Report on
Certificate Course of
"94_Overview of Geoprocessing using Python"
Held online during 17th Jan. to 28th Jan 2022

Overview:

The "Overview of Geoprocessing using Python" certificate course provided participants with a comprehensive understanding of geoprocessing techniques using the Python programming language. Through a combination of theoretical knowledge and practical exercises, participants gained proficiency in utilizing Python libraries and tools for geospatial data analysis and manipulation.

Course Objectives:

- Understand the fundamentals of geoprocessing and its applications in various domains.
- Learn how to leverage Python libraries such as Geopandas, Shapely, and Fiona for geospatial data analysis.
- Explore techniques for spatial data manipulation, including data input/output, transformation, and analysis.

- Gain hands-on experience in geoprocessing workflows through practical exercises and case studies.

Course Content:

- Introduction to Geoprocessing
- Overview of Python for Geospatial Analysis
- Working with Geospatial Data in Python
- Spatial Data Manipulation Techniques
- Geoprocessing Workflows and Automation
- Case Studies and Practical Applications

Assessment:

Assessment was conducted through:

- Online quizzes and exercises to evaluate understanding of concepts.
- Completion of homework assignments to reinforce learning.

Outcome:

Upon successful completion of the course, participants:

- Developed a strong foundation in geoprocessing concepts and techniques.
- Acquired proficiency in utilizing Python for geospatial data analysis and manipulation.
- Demonstrated the ability to apply geoprocessing workflows to real-world scenarios.
- Received a certificate of completion attesting to their knowledge and skills in geoprocessing using Python.

Participant Feedback:

Participants expressed satisfaction with the course content, delivery, and instructor expertise. They found the practical exercises particularly valuable in reinforcing theoretical concepts and enhancing their practical skills.

Conclusion:

The "Overview of Geoprocessing using Python" certificate course organized by IIRS ISRO Nodal Center provided participants with a comprehensive understanding of geoprocessing techniques and their application in Python programming. By equipping participants with practical skills and knowledge, the course has empowered them to leverage geospatial data effectively in their respective fields

Dr.Sandip Anpat   Dr. Devidas Golhar
Coordinator, IIRS ISRO Nodal Center   Principal

भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

सत्यमेव जयते

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COR20229413975

बहि:परिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि **मराठवाड़ा मित्र मंडल कॉलेज ऑफ कॉमर्स, डेक्कन जिमखाना, पुणे** ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम **पायथन द्वारा जियोप्रोसेसिंग का अवलोकन** मे भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 17 जनवरी, 2022 से 28 जनवरी, 2022 तक किया गया।

This is to certify that **Marathwada Mitra Mandal`s College of Commerce, Deccan Gymkhana, Pune**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on **Overview of Geoprocessing using Python**. This online programme was conducted during January 17, 2022 to January 28, 2022

दिनाँक/ Date: **10-02-2022**
देहरादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

भारतीय सुदूर संवेदन संस्थान/ **INDIAN INSTITUTE OF REMOTE SENSING**

भारतीय अंतरिक्ष अनुसंधान संगठन/ **INDIAN SPACE RESEARCH ORGANISATION**

अंतरिक्ष विभाग, भारत सरकार/ **DEPARTMENT OF SPACE, GOVERNMENT OF INDIA**

ऑनलाइन दूरस्थ अधिगम कार्यक्रम
ONLINE DISTANCE LEARNING PROGRAMME

COR20229413975

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि मराठवाड़ा मित्र मंडल कॉलेज ऑफ कॉमर्स, डेक्कन जिमखाना, पुणे कार्यरत ???संदीप एम. अनपत, ने पायथन द्वारा जियोप्रोसेसिंग का अवलोकन विषय पर इस संस्थान द्वारा दिनांक 17 जनवरी, 2022 से 28 जनवरी, 2022 तक संचालित ऑनलाइन प्रशिक्षण पाठचक्रम को समन्वित किया।

This is to certify that **DR. SANDIP M. ANPAT**, working with **Marathwada Mitra Mandal`s College of Commerce, Deccan Gymkhana, Pune,** has coordinated the online training course on **Overview of Geoprocessing using Python** conducted by this institute during January 17, 2022 to January 28, 2022

दिनाँक/ Date: **10-02-2022**

देहरादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Marathwada Mitra Mandal`s
College of Commerce

IIRS ISRO Nodal Center

Certificate Course
94_Overview of Geoprocessing using Python

Date: 17 Jan 2022 to 28 Jan 2022

Sr.No.	Student Name	Remark
1	Mr. Omkar Ashok Salvi	Completed
2	Mr. Nale Abhishek Dilipkumar	Completed
3	Mr. Anish Kadam	Completed
4	Ms. Manali Prayag Petare	Completed
5	Mr. Shubham Ramdas Zende	Completed
6	Ms. Yugandhara Girish Kulkarni	Completed
7	Ms. Rutika dattatraya pawar	Completed
8	Ms. Aarya Swaroop Mulay	Completed
9	Mr. Mayur Rewa Fegade	Completed

Dr. Sandip Anpat
Coordinator
IIRS ISRO MMCC Nodal Center

Dr. Devidas Golhar
Principal