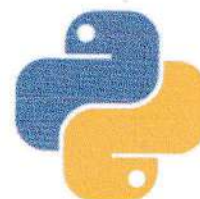




Core python

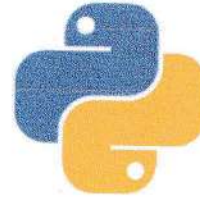
- **Programming Basics**
 - String operators
 - Sample Input & output
 - Function Documentation
 - Modules
- **OOP Concepts**
 - Inheritance
 - Polymorphism
 - Abstraction
 - Encapsulation
- **Data Structures in Python**
 - List Comprehension
 - Nested List Comprehensions
 - Descriptions Comprehensions
 - Default Parameters
- **Collection Classes**
 - namedtuple()
 - deque
 - ChainMap
 - OrderdDict
 - UserList
 - UserString
- **File Handling**
 - File Handling Modes
 - Reading Files
 - Writing & Appending of Files
 - Handling File Exceptions





- **Python SQL Database**

- **DB Connection**
- **Creating DB Table**
- **DML Operations**
- **Handling Errors**



- **Case Study**

- **NumPy**

- **Pandas**

- **Network Programming**

- **Project**





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Report

On

Add-on Course in PYTHON with Project Component

Title of the Course: Add-on Course in PYTHON with Project Component

Resource Person: Ms. Pratiksha Wadaskar, Director Achievon Solutions

Chairperson: Dr L.R. Rewatkar, Head Department of Computer Science and Application

Convenor: Dr Manjiri Pathak, Mr. C.S. Tople

Date: 5th December 2023-5th January 2024

Time: 8:00 am to 11:00am

Objectives:

1. To introduce participants to web development using Python.
2. To provide hands-on experience in building web applications, handling forms, and integrating databases.
3. To Foster practical application of theoretical knowledge through a final project.
4. To encourage participants to work on real-world projects, applying concepts learned during the course.
5. To develop participants' ability to solve complex problems through coding and algorithmic thinking.
6. To promote good coding practices, code organization, and documentation.
7. Encourage teamwork on the final project to simulate real-world development environments.
8. To teach participants the process of deploying a Python web application.
9. Instill a mindset of continuous learning, keeping participants updated on new developments in the Python ecosystem.
10. Enhance their portfolio with a completed project, showcasing their skills to potential employers or collaborators.



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Highlights:

1. The Add-on Course in PYTHON with Project Component was Conducted in Offline mode for 17 days.
2. The Coordinator Dr Manjiri Pathak introduced and welcomed the resource person and other dignitaries to the students.
3. The Resource person Ms Pratiksha Wadaskar explained the future job opportunities in python
4. She also explained the tools, techniques and new technologies used with PYTHON programming language.
5. The day one of the session focused on Basic Concepts, Definition and Programming basics of Python.
6. The Second Session the resource person explained the installation of Python and OOPS concept.
7. The Third, Fourth and Fifth session started with practical knowledge and Data structure list and dictionary in Python.
8. The next four sessions focused on Collection classes, deque, Chainmap and ordered list practical knowledge.
9. The next two session students working on File Handling and Working with database connectivity with Python Programming.
10. The next session taught students capstone project by resource person.
11. All remaining sessions students develop their dummy projects.

Outcomes:

1. Student understands of Python programming language and its various libraries and frameworks and they can able to write efficient and clean Python code.
2. The course helps students Hands-on experience gained through the project component helps in applying theoretical knowledge to real-world scenarios.
3. A portfolio is a valuable asset when seeking internships, jobs, or freelance opportunities.
4. Students working on a project involve identifying and solving problems, which helps to enhance their analytical and problem-solving skills.
5. Students successfully completing a project can boost their confidence in python programming abilities and overall problem-solving skills.
6. The skills acquired through the add-on course and project can contribute to career advancement, either within your current role or by opening up new opportunities.



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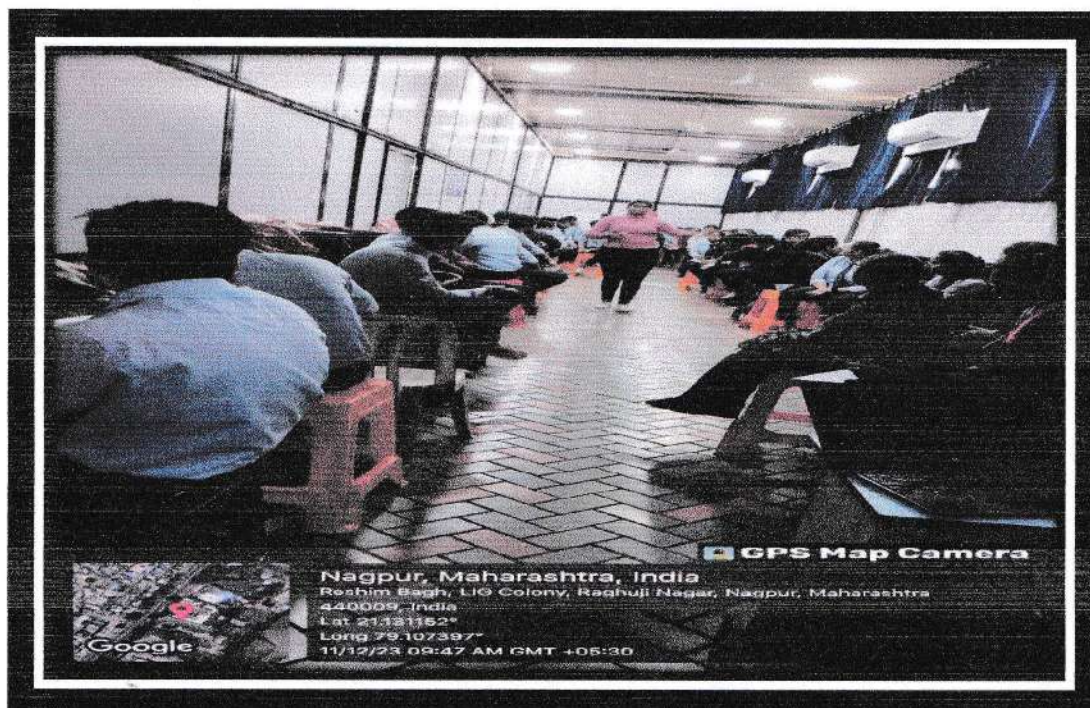
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Total No. of beneficiaries: 51



Ms. Pratiksha Wadsakar gave introduction to the PYTHON



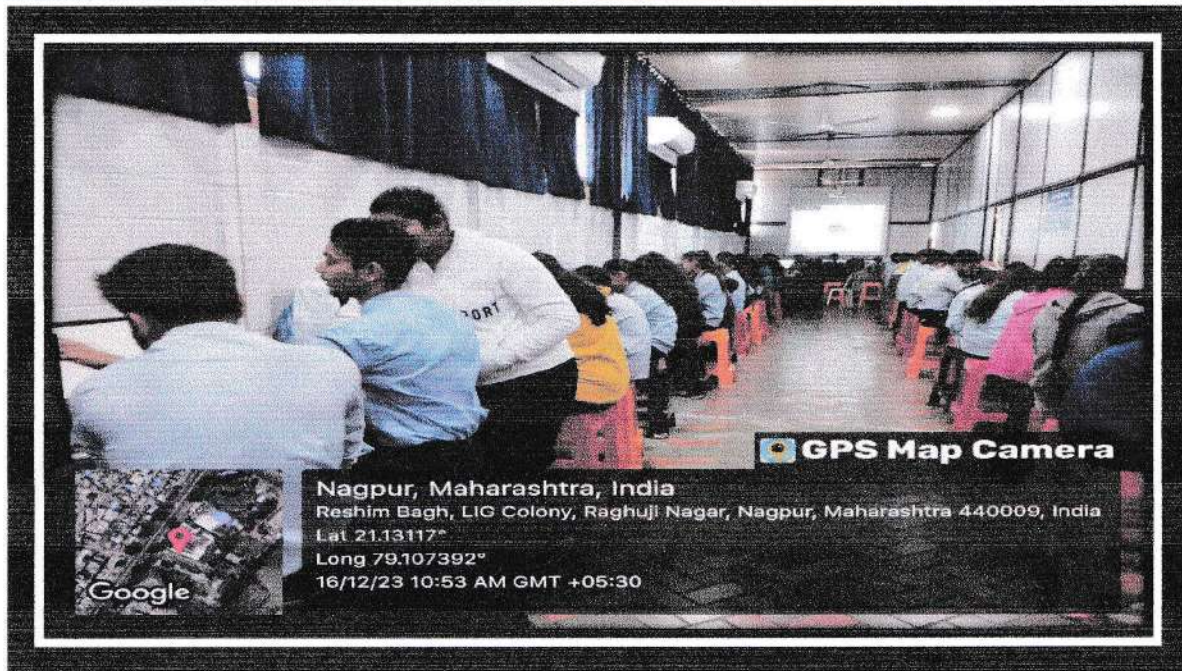
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Students doing practical



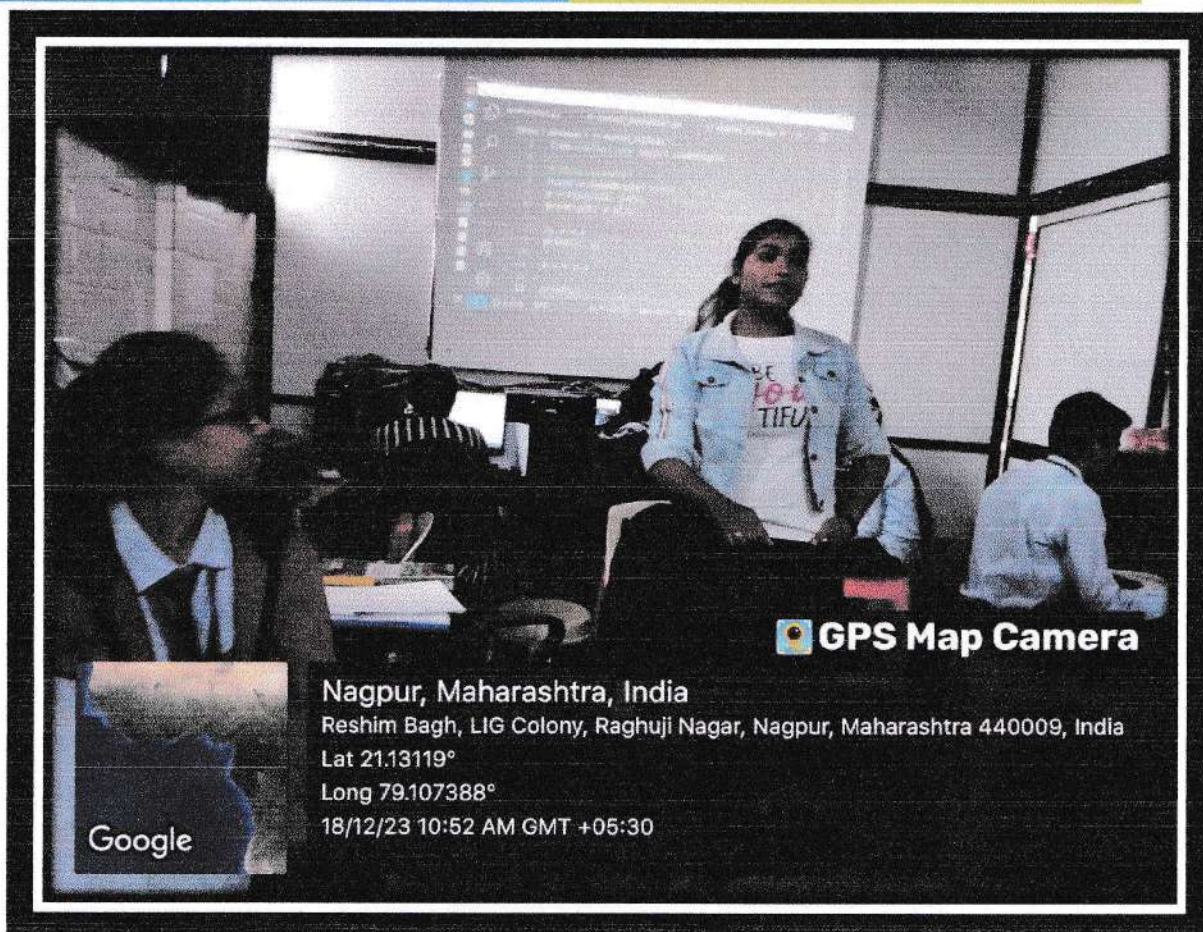
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Resource Person explain the code during the session

Dr. S. C. Gulhane
Program Coordinator
Dr. S. C. Gulhane Prerna College of
Commerce, Science and Arts, Nagpur-24

S. Topikar
Program Coordinator
Dr. S. C. Gulhane Prerna College of
Commerce, Science and Arts, Nagpur-24

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Mr. Yash Anil Chavane



From ACHIEVON SOLUTIONS along with Dr. S. C. Gulhane Prerna College of Commerce,
Science and Arts, Nagpur In recognition of his/her efforts and achievement in completing one
month Certification course in Python Programming.

Conducted from 5th December 2023 to 5th January 2024

Beeshtkar

DR. LILADHAR REWATKAR

Head, Dept. of Computer
Science and Application

P.P. Wadaskar

PRANALI WADASKAR

CEO, Achievon Solutions

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Ms. Aayushi Durugkar

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PRERNA COLLEGE OF COMMERCE

Rewatkar

DR. LILADHAR REWATKAR

Head , Dept. of Computer
Science and Application

p.p.wadaskar

PRANALI WADASKAR

CEO , Achievon Solutions

CERTIFICATE OF ACHIEVEMENT

Proudly presented to

Mr. Atharva Ashok Shapulkar



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