

DEPARTMENT OF COMPUTER ENGINEERING

Shram Sadhana Bombay Trust's

COLLEGE OF ENGINEERING & TECHNOLOGY

Bambhori, Post Box.No.94, JALGAON - 425 001 (MS)

Phone No.: 0257-2258391/93/94/95 Ext 324, Fax:0257-2258392

Web: <http://www.ssoetjalgaon.ac.in>



Ref. No.: COET/COMP/03-24/

Date:13/07/2024

A REPORT ON FACULTY DEVELOPMENT PROGRAM ON PYTHON

Duration: -

March 11th [Thursday] to July 13th [Saturday]

SSBT College of Engineering and Technology, Jalgaon
Department of Computer Engineering
Faculty Development Program on Python

Schedule / Content: -

Sr. No	Topics	Name of Faculty	Date	Time
1	Introduction: What is a program, Install and Run Python, Operators, Values and types, variable, assignment and statement, order of operations String, Operations on string Examples on function used on string	Dr. K. P Adhiya	11-07-2024	11 to 12
2	Function, Definition, Need of function, Creation of function, inbuilt and user defined function, Fruitful function and void function	Dr M. E. Patil	11-07-2024	12 to 1
3	Case Study, How to use turtle module for creating graphics	Dr. Sandip S. Patil	11-07-2024	2 to 3
4	Conditional and recursion: floor division and modulus, Boolean Expressions, logical operators	Dr. P. H. Zope	11-07-2024	3 to 4
5	Recursion, Infinite Recursion, Keyboard input. Fruitful Functions: Return values, Incremental development, Composition, Boolean functions, More recursion, Leap of Faith, Checking types	Dr. D. D. Puri	11-07-2024	4 to 5
6	Iteration: Reassignment, Updating variables, The while statement, Break, Square roots, Algorithms	Dr. A.D.Waghmare	12-07-2024	11 to 12
7	Strings: A string is a sequence, len, Traversal with a for loop, String slices, Strings are immutable, Searching, Looping and Counting, String methods, The in operator, String comparison. Case Study: Reading word lists, Search, Looping with indices	Mr. A. T. Bhole	12-07-2024	12 to 1
8	Lists: List is a sequence, Lists are mutable, Traversing a list, List operations, List slices, List methods, Map filter and reduce, Deleting elements, Lists and Strings, Objects and values, Aliasing, List arguments.	Dr. S. P. Ramteke	12-07-2024	1.45 to 2.45
9	Dictionaries: A dictionary is a mapping, Dictionary as a collection of counters, Looping and dictionaries, ReverseLookup, Dictionaries and lists, Memos, Global Variables.	Miss Priti R. Sharma	12-07-2024	2.45 to 3.30
10	Tuples: Tuples are immutable, Tuple Assignment, Tuple as Return values, Variable-length argument tuples, Lists and tuples, Dictionaries and tuples, Sequences of sequences.	Ms Dhanashree Tayade	12-07-2024	3.30 to 4.15
11	Files: Persistence, Reading and writing, Format operator, Filename and paths, Catching exceptions, Databases, Pickling, Pipes, Writing modules.	Dr. D. K. Kirange	12-07-2024	4.15 to 5
12	Classes and Objects: Programmer-defined types, Attributes, Instances as Return values, Objects are mutable, Copying.	Dr. S. P. Ramteke	13-07-2024	11 to 12
13	Classes and Functions: Time, Pure functions, Modifiers, Prototyping versus Planning Classes and Methods:	Mr. R. H. Patil	13-07-2024	12 to 1
14	Object oriented features, Printing objects, The init method, The str method, Operator overloading, Type-based Dispatch, Polymorphism, Interface and Implementation Inheritance: Card objects, Class attributes, Comparing cards, decks, Printing the Deck, Add Remove shuffle and sort	Mr. Mohan P. Patil	13-07-2024	2 to 3
15	Inheritance, Class diagrams, Data encapsulation.	Mr. Sarkar H. Rajput	13-07-2024	3 to 4
16	The Goodies: Conditional expressions, List comprehensions, Generator expressions, any and all, Sets, Counters, defaultdict, Namedtuples, Gathering keyword Args,	Mr. Pramod B. Gosavi	13-07-2024	4 to 5

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Mission: To provide student-centered conducive environment for preparing knowledgeable, competent and value-added computer engineers.

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AIM / PURPOSE: -

This faculty development program introduces Python as a primary programming language, provides foundational training in introductory Python programming, and equips educators with tools tailored for effective teaching at the college level, fostering a comprehensive approach to programming education.

Objectives: -

- 1) Programming in Python
- 2) Implementing data types, statement, operators and strings
- 3) Implementing OOPs concept in Python
- 4) Creating GUI applications using Python
- 5) Implementing TCP socket connectivity

Number of Resource Persons: - 16

Number of Participants: - 52

Description about the Program: -

Department of Computer Engineering organized a Technical and Hands-On Course from July 11th 2024 Thursday to July 13th 2024 Saturday on Python Programming.

Outcomes: -

Attending the sessions faculties are able:

- 1) Create Your First Program in Python IDLE
- 2) Implement OOPs Concepts in your Programming
- 3) Use Arrays, and Data Structures
- 4) Create an Application with the Support of Graphics in Python
- 5) Implement Error Handling
- 6) To be Aware and Hands-On latest Technologies.
- 7) To Increase the Competency of Designing and Coding.
- 8) To Bridge the Gap Between the Academic and Industry Need.
- 9) To Communicate as a Professional.
- 10) To Recall and Add New Achievements of Our Nation.

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Photos:-



**DTE CODE 5104**
Learn by Doing ...
(As per NEP 2020)
Workshop on
Python Programming
for Faculty Members
July 11 – 13, 2024
50
PARTICIPANTS
WE CHANGE LIVES
SSBT's College of Engineering and Technology

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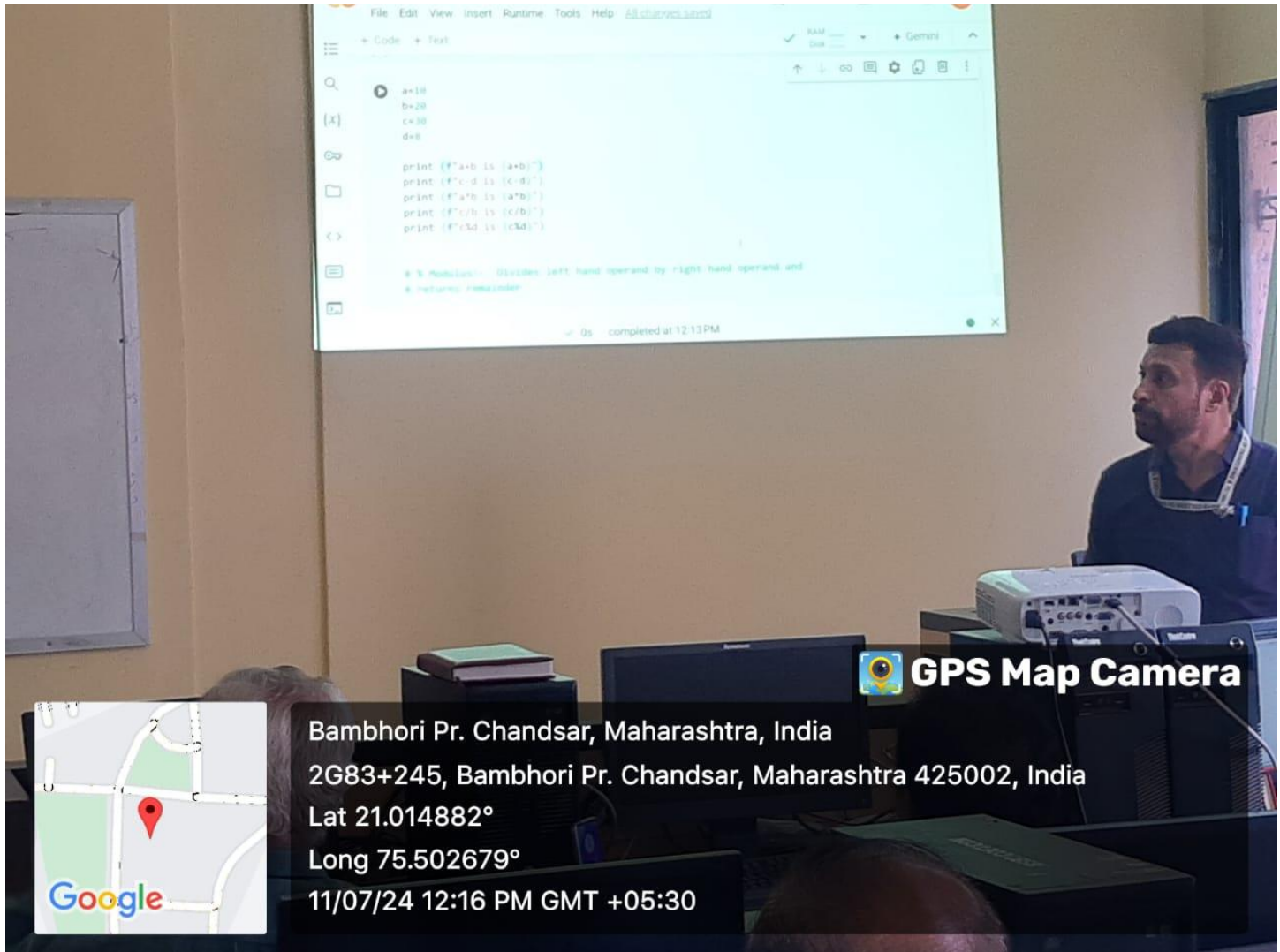
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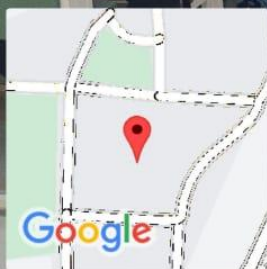
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 **GPS Map Camera**



Bambhori Pr. Chandsar, Maharashtra, India

2G83+245, Bambhori Pr. Chandsar, Maharashtra 425002, India

Lat 21.014717°

Long 75.502955°

11/07/24 11:31 AM GMT +05:30

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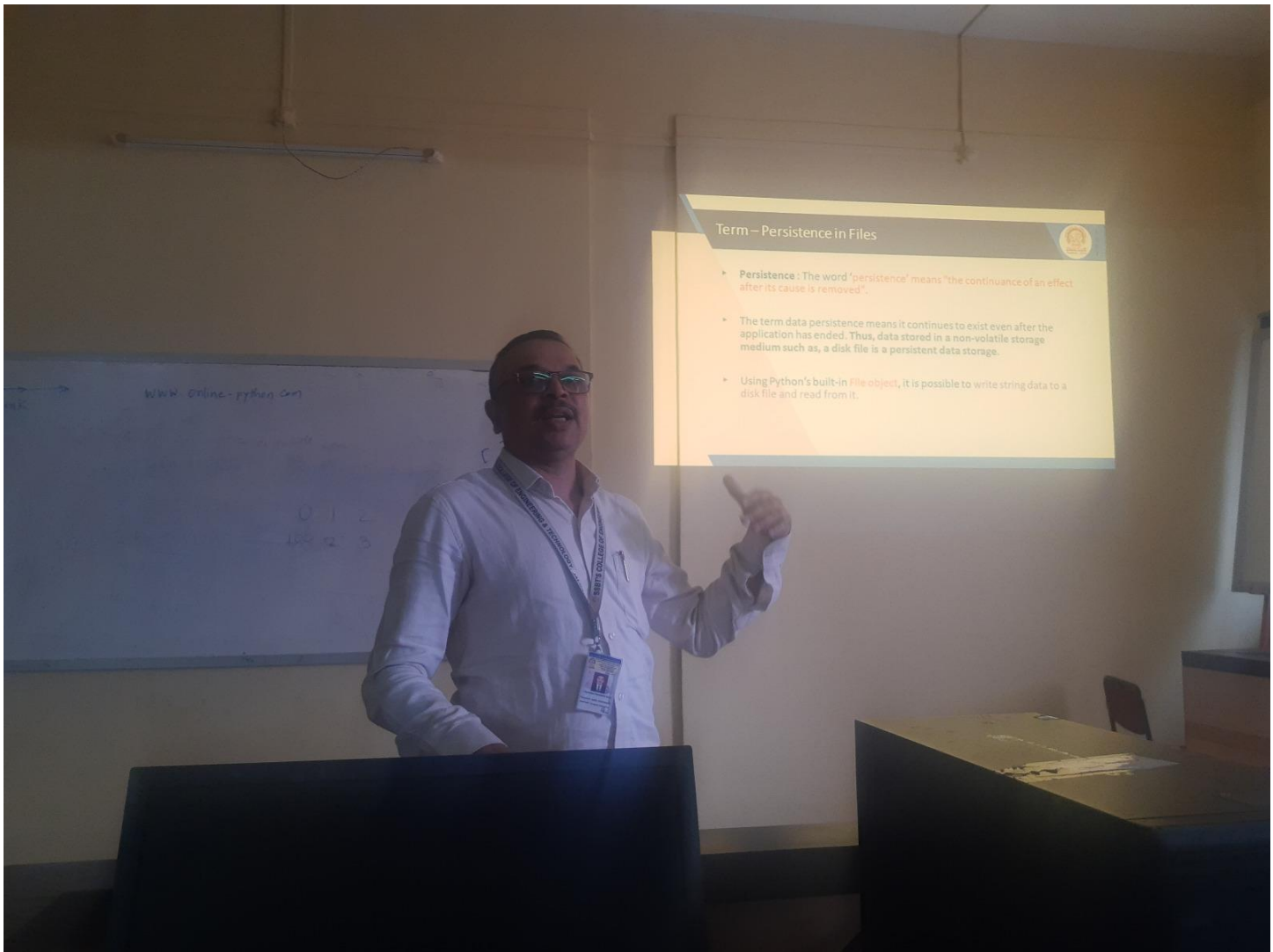
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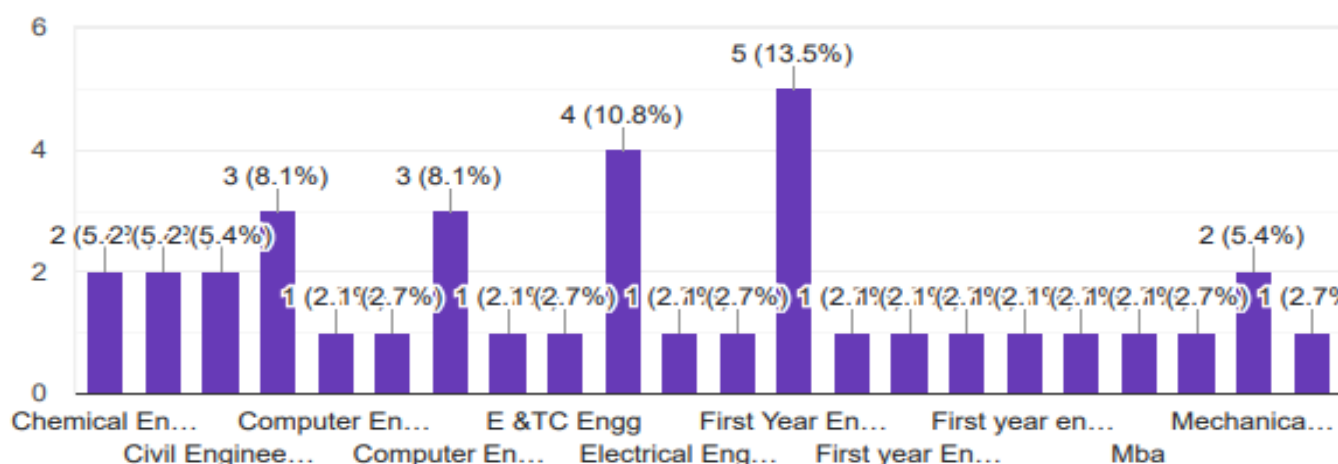
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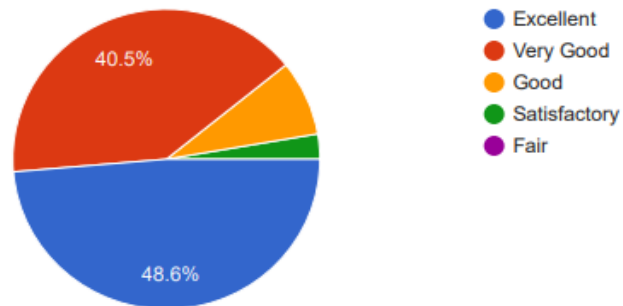
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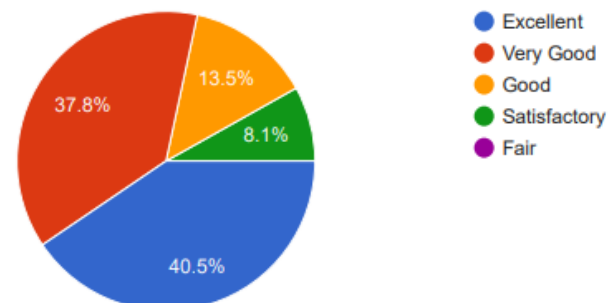
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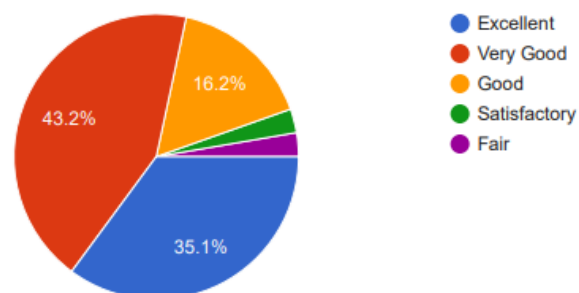
Overall Organization of the FDP: -



Contents of the FDP: -



How do you envision the FDP being delivered?



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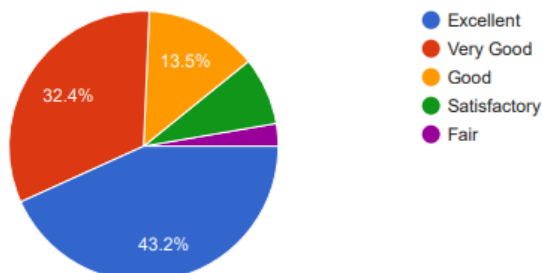
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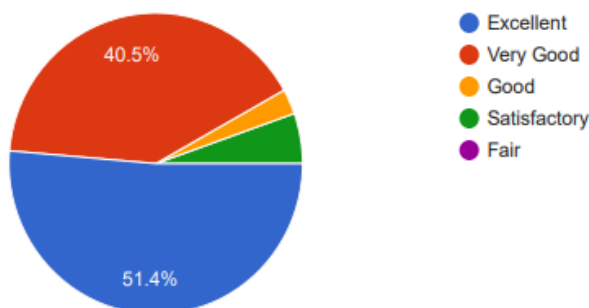
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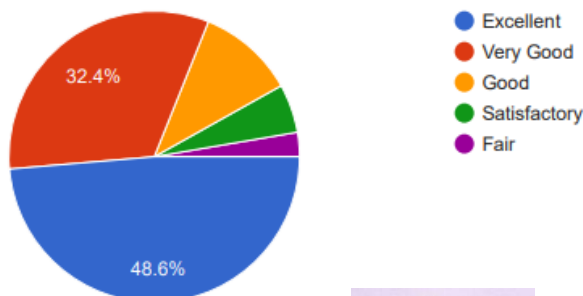
Hands-On Sessions in the FDP: -



Usefulness of the FDP: -



Overall effectiveness of the FDP: -



Mr. Pramod B. Gosavi
Co-ordinator

Head
Computer Engineering Department
SSTP's College of Engineering & Technology
Bambhori, Jalgaon - 425010 (M.S.)

Dr. M. E. Patil
Head of the Department
Computer Engineering

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