



LSSBM's
**PADMASHRI DR. V.B. KOLTE COLLEGE OF ENGINEERING, MALKAPUR,
DIST-BULDANA (M.S) - 443101**

(NAAC Accredited, Approved by AICTE-New Delhi, Government of Maharashtra, DTE, MSBTE, Mumbai and
Affiliated to Sant Gadge Baba Amravati University)

Website - www.coemalkapur.ac.in Email:- coemalkapur@rediffmail.com

Summary Report
Value Added Program
On
“Python for Data Science”

In association with

Department of Computer Science and Engineering of Padm. Dr. V. B. Kolte College of Engineering, Malkapur (VBKCOE) conducted **Value Added Program on “Python for Data Science”** from 27th to 31st May 2022. 75 students were participated in this program. Python is new language introduced in industry as well as syllabus. When final year students pass out they must have some additional skill with them which is currently used in industry so that they can compete with other students. So the department had decided to conduct this program.

Objectives of Value Added Program:

- To introduce participants to the basic concepts and techniques of Python.
- To develop skills of using recent technologies for solving practical problems.
- To gain experience of doing independent study and research.

The FDP helps create awareness and deeper understanding of recent technology such as Python, Data science among the faculties and researchers working in various disciplines of engineering and sciences. It also helps the participants to understand and apply these technologies through several case studies and real-life examples. It provide opportunities to faculty members, research scholars and post graduate students to enhance their knowledge in research.

Resource Persons:

- Prof. Dhananjay Joshi, Asst. Professor CSE Department, SVKM's NMIMS MPSTME Shirpur.
- Dr. A. B. Gadicha, HOD, CSE , P.R.Pote Patil College of Engineering and Management , Amravati.
- Mr. Vijay Tathe, Project Head & CEO, Microspectra Software Technologies Pvt. Ltd.
- Prof. Mayuri Kulkarni, Assistant Professor, SVKM's Institute of Technology, Dhule
- Prof. Ashish Awate, Assistant Professor, SVKM's Institute of Technology, Dhule

Inauguration:

Prof. G. V. Patil, Asst. Professor, Computer Science and Engineering Department welcome to all participants, explaining objectives of Value added program and given brief introduction of speaker about their professional experience.



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1st Day (27/05/2022)

Session I	Prof. Dhananjay Joshi, Assistant Professor , Department of Computer Science and Engineering, SVKM's NMIMS MPSTME Shirpur	Basics of Python
Session II	Prof. Dhananjay Joshi, Assistant Professor , Department of Computer Science and Engineering, SVKM's NMIMS MPSTME Shirpur	

2nd Day (28/05/2022)

Session I	Prof. Dhananjay Joshi, Assistant Professor , Department of Computer Science and Engineering, SVKM's NMIMS MPSTME Shirpur	Python for Data Visualization
Session II	Dr. Ajay B. Gadicha, Head of Department, Computer Science & Engineering P.R.Pote Patil College of Engineering and Management , Amravati	Python for Data Visualization

3rd Day (29/05/2022)

Session I	Mr. Vijay Tathe, Project Head , Microspectra Software Technologies Pvt. Ltd.	Python for Data Analytics
Session II	Mr. Vijay Tathe, Project Head , Microspectra Software Technologies Pvt. Ltd.	

4th Day (30/05/2022)

Session I	Prof. Ms. Mayuri Kulkarni, Assistant Professor, SVKM's Institute of Technology, Dhule	Python libraries in data science
Session II	Prof. Ashish Suresh Awate, Assistant Professor, SVKM's Institute of Technology, Dhule	Statistics in Data Science using Python

5th Day (31/05/2022)

Session I	Prof. Ashish Suresh Awate, Assistant Professor, SVKM's Institute of Technology, Dhule	Statistics in Data Science using Python
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Number of participants Registered: 75



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Outcomes of Value Added:

- Participants familiar with new technology like Python, Data Science
- Researchers get more clear idea about innovation.
- Research scholars and post graduate student's knowledge is upgraded with new area for research and development.
- Enhancement in academic excellence

Valedictory:

Prof. G. V. Patil, Asst. Professor, Compute Science and Engineering Department, delivered vote of thanks to all participants, Resource Persons for sharing their professional experience, Knowledge and skills.

Glimpses of Value Added

Zoom Meeting

VBKCOES8

Anupama Chaur... Miss.Diyaa Rahu... hcd Bilalkhan Pathan

MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING, SHIRPUR

Variables

- Rules for Naming Variables/Identifiers (Class, Object, Function, etc)
 - A variable name must start with a letter or the underscore character.
 - A variable name cannot start with a number.
 - A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, & _).
 - Variable names are case-sensitive (name, Name and NAME are three different variables).
 - The reserved words(keywords) cannot be used naming the variable.

```
# An integer assignment
age = 45
# A floating point
salary = 1456.8
# A string
name = "John"
print(age)
print(salary)
print(name)
```

Participants (100)

Find a participant

Katanka Prave (UNIVERSITY)	🔇
RP Rahul patil	🔇
Rajeev Rajkumar	🔇
RV Ravindra Vairagdar	🔇
R RNS	🔇
BK ROSHAN KOLTE	🔇
SI Sachin Joshi	🔇
Sachin Dandage	🔇
sakshi junare	🔇
S Samrudhi Mamarde	🔇
SB Sanjay Bagade	🔇
SK SANJAY KOORSE	🔇
SP Sanjay Patel	🔇
S Shtal Jadhav	🔇
Shivani Rajput	🔇
SS Shubhangi sinare	🔇
SC Sneha Chandrakant Pawar	🔇
SJ sonal jathe	🔇
SH Swati harad	🔇
S swati patil	🔇
Swati Shinde	🔇
VP Vidya Pandita (ate Windows)	🔇

Zoom Meeting controls: Mute, Start Video, Participants, Chat, Share Screen, Record, Reactions, Leave

Windows taskbar: ENG IN, 11:20, 27-05-2022



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The slide displays a central yellow circle labeled "Python Libraries for Data Science". Surrounding it are four quadrants, each with a circular icon and a box of library logos:

- Extract, Transform, Load (ETL)**: pandas, Beautifulsoup, INTAKE
- Data Exploration**: Seaborn, matplotlib
- Data Evaluation**: NumPy, TensorFlow
- Data Modeling**: learn, SciPy, SM
- Data Presentation**: matplotlib, VisPy

Participants (52) list includes: Amol Chaudhari, Amol Wani, Anurpal Kaur, Anupama Chaurasia, Anuradha Kulkarni, Archana Chitte, Abul Karode, Bhushan Behede (MATPR-D-21...), Deepali Saini, Diya Wani, Dr. Neha Dhanawade, Dr. Sunanda Khandait, Gagan Gangakhedkar, Gaurang Patel, Jaina Patel, Janardan Bharvad, Khandare Ntin M., Khushi Patel, Leeksha K, monish, Nisham Lakhade.

The Jupyter Notebook interface shows a heatmap with a color scale from -0.2 to 0.2. The data is organized into a grid with row and column labels. The row labels include: concave points_se, symmetry_se, fractal_dimension_se, radius_worst, texture_worst, perimeter_worst, area_worst, smoothness_worst, compactness_worst, concavity_worst, concave points_worst, symmetry_worst, fractal_dimension_worst. The column labels include: radius_mean, texture_mean, perimeter_mean, area_mean, smoothness_mean, compactness_mean, concavity_mean, concave points_mean, symmetry_mean, fractal_dimension_mean, radius_se, texture_se, perimeter_se, area_se, smoothness_se, compactness_se, concavity_se, concave points_se, symmetry_se, fractal_dimension_se.

Participants (59) list includes: Administrator, Amol Wani, Anupama Chaurasia, aparna joshi, Archana Chitte, Abul Karode, Bhushan Behede (MATPR-D-21...), chatrali Pavar-Nalawade, CP Chandrashekar Pavar.

Chat window content:
@naginant: tumor_x(x.describe())
Dr. Sunanda Khandait to Everyone: no mam
Anupama Chaurasia to Everyone: extraspace
Me to Mayuri Kulkarni (Direct Message): Mam, if you want you stop the session



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Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule

Levene's Test using Python

```
1 scipy.stats.levene(ratings_df[ratings_df['gender'] == 'female']['eval'],
2 ratings_df[ratings_df['gender'] == 'male']['eval'], center='mean')
```

LeveneResult(statistic=0.1903292243529225, pvalue=0.6628469836244741)

P-value > 0.05
We can't reject Null Hypothesis
Conclusion : Variance Does not differ

```
1 scipy.stats.ttest_ind(ratings_df[ratings_df['gender'] == 'female']['eval'],
2 ratings_df[ratings_df['gender'] == 'male']['eval'], equal_var = True)
```

03:27:03 Department of Computer Engineering 03:16:17 98