

**Padmabhushan Vasantrodada Patil Mahavidyalaya,
Kavathe Mahankal.**

DEPARTMENT OF MATHEMATICS

Career Oriented Course in

“Introduction to Python”

(2023-24)



Head
Department of Mathematics
P. P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

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Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli

From,
Head,
Department of Mathematics,
P. V. P. College, Kavathe Mahankal,
Dist. Sangli, Maharashtra 416405
Date: 25/08/2023

To,
The Principal,
Padmabhushan Vasantrodada Patil Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli,
Maharashtra 416405

Subject: Seeking a permission to start the career oriented course in
“Introduction to Python”.

Respected sir,

As per your guidelines we are going to start a career oriented course in
“Introduction to Python” in Department of Mathematics for our college students. This
course will be of 30 hours and will be completed during September 2023 to October
2023. The course will be definitely very beneficiary for students.

I request you to give permission to start the above course in the Department.

Thanking you.

Yours faithfully,

Head 
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Date: 27-08-2023

NOTICE

All the students in P. V. P. college, Kavathe Mahankal are informed that, Department of Mathematics is going to start the career oriented course in "Introduction to Python". The interested students are requested to enroll upto 29th August, 2023.

Coordinator



Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

BROCHURE

Shikshan Prasarak Sanstha's
Padmabhushan Vasantodada Patil Mahavidyalaya
Kavathe Mahankal, Sangli
Affiliated to Shivaji University, Kolhapur

Department of Mathematics


python

CAREER ORIENTED COURSE in

Introduction to Python

Free Certificate

Computations using Python

All the Basics of Python

Well Equipped Computer Lab

Starting from
4th September, 2023

Duration:
30 hours

Open For Enrollment

Contact: 8766485869

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Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python

Board of Studies

Sr. No.	Name	Designation	Signature
1.	Prof. R. A. Dudhal	President	
2.	Mr. A. A. Bandgar	Member	

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python

Objectives:

1. To acquaint students with some basic concepts (elementary knowledge) in Python
2. Understand and implement basic mathematical algorithm using Python.

Duration:

The course will be completed in 30 hours (3 months).

Eligibility of the student:

1. The student must have the basic knowledge of computer.
2. Student must have passed H. Sc. Examination.

Course outcomes:

By the end of this course students are expected,

1. To have some basic knowledge of Python.
2. Understand and implement basic mathematical algorithm using Python.

Evaluation Method:

The examination will be conducted in two parts – theory and oral. Theory examination will consist of 20 multiple choice questions which will be conducted on offline form a will be of 40 marks and 10 marks of oral which will be in classroom at the end of the course.



Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli. 5

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python

Syllabus

Objectives and course outcomes:

The main objective of this course is to acquaint students with some basic concepts in Python. They will be introduced to some elementary knowledge of Python. By the end of this course students are expected to be able,

1. To handle the data using Python.
2. Understand and implement basic mathematical algorithm using Python.

Unit 1: (15 hours)

Introduction, Spyder IDE, keywords and identifiers, Variables ,Datatypes, Basic Mathematical Operations, Input And OutPut

Unit 2: (15 hours)

Conditional Statements: If Statement, If-else Statement, The elif Statement, Nested If module, Method of Set: Union Method, Intersection, Difference Method.



Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli

TIMETABLE FOR CERTIFICATE COURSE IN PYTHON (2023-24)

B. Sc. I

Day	Lecturer: Prof. R.A.Dudhal				
Monday	4-09-2023	11-09-2023	18-09-2023	25-09-2023	9-10-2023
Tuesday	5-09-2023	12-09-2023	19-09-2023	26-09-2023	3-10-2023
Wednesday	6-09-2023	13-09-2023	20-09-2023	27-09-2023	4-10-2023
Thursday	***	***	***	***	***
Friday	***	***	***	***	***
Saturday	***	***	***	***	***

Day	Lecturer: Mr. Bandgar A.A.				
Monday	***	***	***	***	***
Tuesday	***	***	***	***	***
Wednesday	***	***	***	***	***
Thursday	7-09-2023	14-09-2023	21-09-2023	28-09-2023	5-10-2023
Friday	8-09-2023	15-09-2023	22-09-2023	29-09-2023	6-10-2023
Saturday	9-09-2023	16-09-2023	23-09-2023	30-09-2023	7-10-2023

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python

Date: 2-09-2023

NOTICE

All the enrolled students are informed that, the lectures of the course will be started from 4th September,2023 as per timetable. All the lectures will be conducted in computer laboratory of department of mathematics.



Coordinator

Head
Department of Mathematics
Head
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction to Python

Attendance (B. Sc. I)

Sr. No.	Name	4-09-23	5-09-23	6	7	8	9	11	12	13	14	15	16	18	19	20
1.	Shinde Sandesh Sanjaykumar	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh	Sandesh
2.	Bhosale Shubhangi Prakash	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
3.	Kumbhar Shreyash Balaso	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash	Shreyash
4.	Ghodake Puja Govind	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja
5.	Sulunkhe Sanjay Dilip	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
6.	Patil Vishakha Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas	Vilas
7.	Chougale Shubhangi Gorakhnath	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi	Shubhangi
8.	Karande Swaranjali Sanjay	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali	Swaranjali
9.	Salunkhe Riya Ravsaheb	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya	Riya
10.	Chavan Sakshi Suresh	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi

Sl. No.	Name	
26.	Umasi Kondaba Bore Mukund Ramnath Gure	Mure
27.	Pawar Yash Dilip	Mure
28.	Bandgar Prakash Suryaba	Mure
29. #	Sargar Kajal Birudev	Mure
30.	Pawar Digvijay Singh Kale Sumit Kalpani Ajitsinh	Mure
31.	Shinde Aniket Jagannath	Ab
32.	Gorad Sagar Sanjiv	Ab
33.	Suryawanshi Mangesh Ganpatrao	Ab
34. #	Nagane Shrutika Satish	Ab
35. #	Bhosale Amruta Namdev	Ab
36.	Pawar Chetan Dadase Aushay Bhayara Pandar	Ab
37.	Bhosale Vijay Pandurang	Ab
38.	Kore Ishvar Sharanappa	Ab
39.	Ghatge Siddhi Balasaheb	Ab
40. #	Kamalakar Akanksha Anil	Ab

Padmabhushan Vasantaoada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction to Python

Attendance (B. Sc. I)

Sr. No.	Name	21-11	22	23	25	26	27	28	29	30	01-12	02	03	04	05	06	07	08
1.	Shinde Sandesh Sanjaykumar	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
2.	Bhosale Shubhangi Prakash	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
3.	Kumbhar Shreyashi Balaso Patil Pranav Anil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
4.	Ghodake Puja Govind	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake	Ghodake
5.	Sulunkhe Sanjay Dilip	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe	Sulunkhe
6.	Patil Vishakha Vilas	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
7.	Chougale Shubhangi Gorakhnath	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale
8.	Karande Swaranjali Sanjay	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande	Karande
9.	Salunkhe Riya Ravsaheb	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe
10.	Chavan Sakshi Suresh	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan

Sr. No	Name	
26	Thorat Kondiba Biru Mansund Hanmantkoo Zure	M.L.U.C.
27	Pawar Yash Dilip	M.L.U.C.
28	Bandgar Prakash Suryaba	M.L.U.C.
29	Sargar Kajal Birudev	M.L.U.C.
30	Pawar Divyashobha Kale Sumit Kalyani Ajitsinh	M.L.U.C.
31	Shinde Aniket Jagannath	M.L.U.C.
32	Gorad Sagar Sanjiv	M.L.U.C.
33	Suryawanshi Mangesh Ganpatrao	M.L.U.C.
34	Nagane Shrutika Satish	M.L.U.C.
35	Bhosale Amruta Namdev	M.L.U.C.
36	Pawar Chetan Dadaso Akshay Bhigavan Pandit	M.L.U.C.
37	Bhosale Vijay Pandurang	M.L.U.C.
38	Kore Ishvar Sharanappa	M.L.U.C.
39	Ghatage Siddhi Balasaheb	M.L.U.C.
40	Kanwalakar Akanksha Anil	M.L.U.C.

Sl. No.	Name																			
41.	Suryawanshi Sumit Annaso	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
42.	Zambare Pranali Uttam	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ	PUZ
43.	Mane Shital Sambhaji	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane	S.S. mane
44.	Bhosale Dhanashri Sarjerao	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans	Dhans
45.	Mane Trupti Kakaso	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj	Troj
46.	Padalkar Sonali Babasaheb	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali	Sonali
47.	Sarvade Priyanka Himmat	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
48.	Bhosale Rohini Babu Dhale Ashwini Ankush	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini	Rohini
49.	Munawar Fajr Jabbar Dhobale Smita Ananda	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr	Fajr
50.	Bhadake Saloni Mahadev	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
51.	Bhosale Prajakta Hanmant	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta
52.	Vaishnavi Kakaso Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil	V.K. Patil
53.	Kshirsagar Mansi Anil	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi	Mansi
54.	Bhosale Vaishnavi Bharat	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
55.	Mane Hanmant Tanaji	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant	Hanmant

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python

Date: 02-09-2023

NOTICE

All the enrolled students are informed that, the timetable for theory examination and practical examination of the course in "Introduction To Python" is as below,

Examination	Time
Theory and Practical	4 th September, 2023 (9.30 a.m. to 10.30 a.m.)

Coordinator



Head Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Mathematical Computation Using Python

Name of Student:

Career oriented course

Question: Select the correct alternative for each of the following : (Each Carriyg 2 Marks)

1. Who developed python programming language

- Wick Van Rossum
- Ramus Lerdorf
- Guido van Rossum
- Niene Stom

2. Python is case sensitive when dealing with identifiers .

- True
- False

3. Which of the following is the correct extension of the python file.

- .python
- .pl
- .py
- .p

4. Which of the following is the truncation division operator in Python

- |
- //
- /
- %

5. Which of the following function is a built-in function in python

- Factorial()
- print()
- seed()
- sqrt()

6. Which keyword is used for function in python language

- Function
- def

- Fun
- Define

7. Which of the following is a python tuple

- {1, 2, 3}
- {}
- [1, 2, 3]
- (1, 2, 3)

8. What are the main two types of functions in python

- System function
- Custom function
- Built-in function & User defined function
- User function

9. All keywords in python are in

- Capitalized
- Lower case
- Upper case
- None of the above

10. What will be the value of the following python expression

$4 + 3 \% 5$

- 7
- 2
- 4
- 9

11. What will be the output of the following Python function

```
Import math
```

```
abs(math.sqrt(25))
```

- Error
- 5
- 5
- 5.0

12. What is the value returned by

```
import math
math.factorial(6.0)
```

- 720
- 6
- 0
- None of the above

13. What is the value returned by

```
import math
math.sqrt(144)
```

- 11
- 12
- 13
- None of the above

14. What is the value returned by `int(math.pow(3,2))`

- 6
- 9
- 3
- none of the above

15. What is the output of the following python programme

```
x = {1, 2, 3, 5}
y = {2, 4, 6, 8}
z = x.difference(y)
print(z)
```

- {1, 3, 5}
- {1, 2, 3, 4, 5, 6, 8}
- {2}
- None of the above

16. What is the result of `math.trunc(3.1)`

- 3.0
- 3
- 0.1
- 1

17. What is the result of `math.log10(10)`

- 1
- 2
- 3
- 4

18. Which of the following is not a valid set operation in python

- Union
- Intersection
- Difference
- None of the above

19. What is the output of the following python programme

```
x = {1, 2, 3, 5}
y = {2, 4, 6, 8}
z = x.union(y)
print(z)
```

- {1, 2, 3, 6}
- {1, 2, 3, 4, 5, 6, 8}
- {2}
- None of the above

20. What is the output of the following python programme

```
x = {1, 2, 3, 5}
y = {2, 4, 6, 8}
z = x.intersection(y)
print(z)
```

- {1, 2, 3, 6}
- {1, 2, 3, 4, 5, 6, 8}
- {2}
- None of the above

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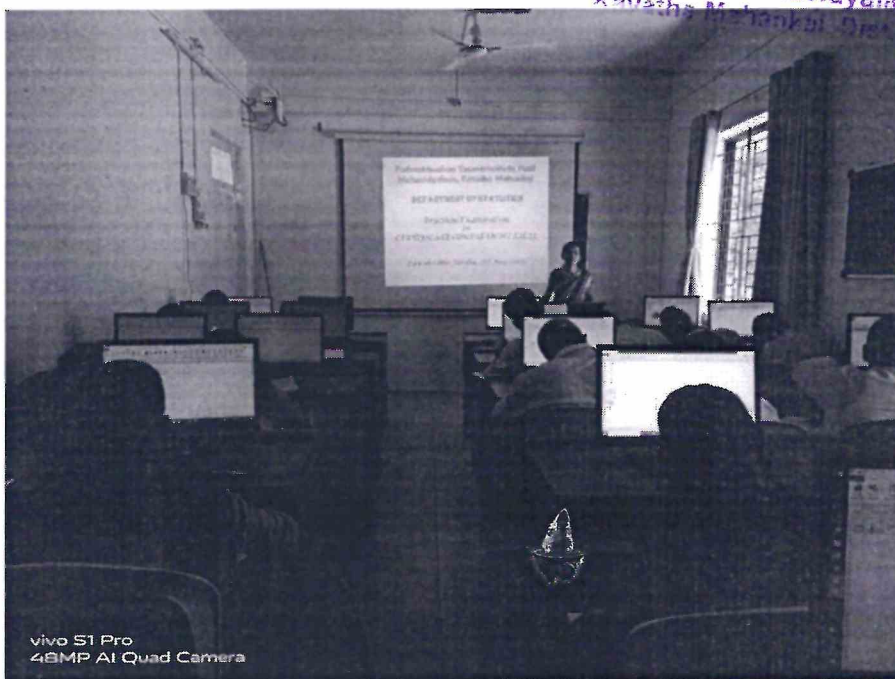
Photos:



Practical Examination

P. V. P.

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli



Theory Examination

P. V. P.

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli

Padmabhushan Vasatraodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Introduction To Python


Result

Sr. No	Name	Class	Marks			Remark
			Theory	Oral	Total	
1.	Shinde Sandesh Sanjaykumar	B. Sc. I	40	08	48	O
2.	Bhosale Shubhangi Prakash	B. Sc. I	AB	AB	AB	AB
3.	Kumbhar Shreyash Balaso	B. Sc. I	36	08	44	A
4.	Ghodake Puja Govind	B. Sc. I	40	07	47	O
5.	Sulunkhe Sanjay Dilip	B. Sc. I	40	07	47	O
6.	Patil Vishakha Vilas	B. Sc. I	40	08	48	O
7.	Chougale Shubhangi Gorakhnath	B. Sc. I	40	06	46	O
8.	Karande Swaranjali Sanjay	B. Sc. I	40	07	47	O
9.	Salunkhe Riya Ravsaheb	B. Sc. I	40	06	46	O
10.	Chavan Sakshi Suresh	B. Sc. I	40	06	46	O
11.	Jatkar Mohammadshohel Imamsab	B. Sc. I	40	05	45	A
12.	Pakhali Simran Alam	B. Sc. I	40	07	47	O
13.	Sonur Ashwini Yashwant	B. Sc. I	40	08	48	O
14.	Sayar Ranjit Kallappa	B. Sc. I	40	06	46	O
15.	Shinde Prathmesh Chandrakant	B. Sc. I	40	07	47	O
16.	Hipparkar Navanath Haridas	B. Sc. I	40	07	47	O
17.	Aladi Sakshi Mahesh	B. Sc. I	40	06	46	O
18.	Mirajkar Kundan Pramod	B. Sc. I	38	09	47	O
19.	Khot Harshad Girajappa	B. Sc. I	40	07	47	O


20.	Nile Ashwini Shivaji	B. Sc. I	AB	AB	AB	AB
21.	Patil Vaishnavi prakash	B. Sc. I	40	08	48	O
22.	Pawar Prathmesh Deepak	B. Sc. I	40	05	45	A
23.	Bhosale Sayali Balkrishna	B. Sc. I	36	08	47	O
24.	Pawar Prathmesh Ravso	B. Sc. I	40	07	47	O
25.	Gadade Suyash Santosh	B. Sc. I	36	08	44	A
26.	Thorat Kondiba Biru	B. Sc. I	36	09	45	A
27.	Pawar Yash Dilip	B. Sc. I	40	07	47	O
28.	Bandgar Prakash Suryaba	B. Sc. I	36	08	44	A
29.	Sargar Kajal Birudev	B. Sc. I	40	06	46	O
30.	Kale Sumit Kalyani	B. Sc. I	36	06	42	A
31.	Shinde Aniket Jagannath	B. Sc. I	AB	AB	AB	AB
32.	Gorad Sagar Sanjiv	B. Sc. I	40	08	48	O
33.	Suryawanshi Mangesh Ganpatrao	B. Sc. I	36	08	44	A
34.	Nagane Shrutika Satish	B. Sc. I	40	05	45	A
35.	Bhosale Amruta Namdev	B. Sc. I	40	06	46	O
36.	Pawar Chetan Dadaso	B. Sc. I	36	08	44	A
37.	Bhosale Vijay Pandurang	B. Sc. I	40	08	48	O
38.	Kore Ishvar Sharanappa	B. Sc. I	40	07	47	O
39.	Ghatage Siddhi Balasaheb	B. Sc. I	40	05	45	A
40.	Kamalakar Akanksha Anil	B. Sc. I	40	06	46	O
41.	Suryawanshi Sumit Annaso	B. Sc. I	AB	AB	AB	AB
42.	Zambare Pranali Uttam	B. Sc. I	40	06	46	O
43.	Mane Shital Sambhaji	B. Sc. I	40	07	47	O
44.	Bhosale Dhanashri Sarjerao	B. Sc. I	40	08	48	O
45.	Mane Trupti Kakaso	B. Sc. I	40	06	46	O
46.	Padalkar Sonali Babasaheb	B. Sc. I	40	07	47	O

47.	Sarvade Priyanka Himmat	B. Sc. I	40	06	46	O
48.	Dhale Ashwini Ankush	B. Sc. I	38	10	48	O
49.	Dhobale Sanika Ananda	B. Sc. I	38	07	45	O
50.	Bhadake Saloni Mahadev	B. Sc. I	40	06	46	O
51.	Bhosale Prajakta Hanmant	B. Sc. I	40	07	47	O
52.	Vaishnavi Kakaso Patil	B. Sc. I	40	07	47	O
53.	Kshirsagar Mansi Anil	B. Sc. I	36	05	41	A
54.	Bhosale Vaishnavi Bharat	B. Sc. I	40	06	46	O
55.	Mane Hanmant Tanaji	B. Sc. I	40	07	47	O
56.	Karande Laxmi Babaso	B. Sc. I	40	09	49	O
57.	Mane Sandhya Sambhaji	B. Sc. I	40	08	48	O
58.	Kore Pranali Jayant	B. Sc. I	40	09	49	O

(*A – Satisfactory **O – Outstanding)


Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli


CERTIFICATE



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Dist : Sangli, (Maharashtra)
Department of Mathematics
Affiliated to Shivaji University, Kolhapur

Career Oriented Course in
Introduction to Python
Certificate

This is to certify that Mr./Ms. _____
(B. Sc.I / II / III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
successfully completed the career oriented course in "Introduction to Python"
during September 2023 to October 2023.


Mr. A. A. Bandgar
Co-ordinator


Asso. Prof. R. A. Dudhal
Head


Prof. (Dr.) M. K. Patil
Principal

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Report on Career Oriented Course in "Introduction To Python"

Title	Career Oriented Course in "Introduction To Python"
Duration	4 th September 2023 to 9 th October 2023
Organizer	Department of Mathematics , P.V.P. Mahavidyalaya Kavathe Mahankal
Funding	--
BOS / Faculty	Prof. R.A. Dudhal Mr. A. A. Bandgar
Coordinator	Mr. A.A. Bandgar
Background	Students must have some knowledge of softwares like Python, Matlab, etc. Python is easy to handle and free to use. So this course is intended.
Objective	1.To acquaint students with some basic concepts (elementary knowledge) in Python 2.Understand and implement basic mathematical algorithm using Python.
Outcomes	1.To have some basic knowledge of Python 2.To handle the data using Python.
Conclusion	Students got sufficient knowledge about Python and they are very excited to study such softwares in future.Thus this course is fruitful and motivational for participated students.



Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist -Sangli

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF MATHEMATICS

Career Oriented Course in "Introduction To Python"

Brief Summary

Sr. No.	Organizing department	Department of Mathematics		
1	Type of Activity	Career Oriented Course in "Introduction To Python"		
2	Duration of Activity	4 th September 2023 to 9 th October 2023		
3	Venue	Computer Lab, Department of Mathematics		
4	Participation			
	Students	Male	Female	Total
	B. Sc. I	21	33	54
	Total	21	33	54
5	Result	A-Grade	O-Grade	Total
	B. Sc. I	12	42	54

Coordinator

Head

Head
Department of Mathematics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli,

CERTIFICATES



Shikshan Prasarak Sanstha's
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Career Oriented Course in
Introduction to Python
Certificate

This is to certify that Mr./Ms. *Shinde Sandesh Sanjaykumar (B. Sc.I)* of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


Mr. A. A. Bandgar
Co-ordinator


Asso. Prof. R. A. Dudhal
Head


Prof. (Dr.) M. K. Patil
Principal



Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal,
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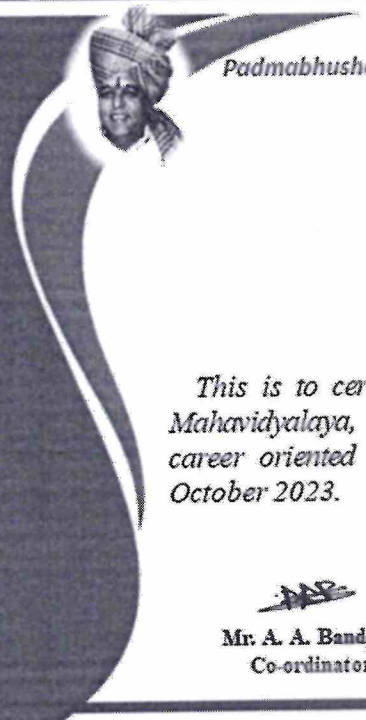
Career Oriented Course in
Introduction to Python
Certificate

This is to certify that Mr./Ms. *Kumbhar Shreyash Balaso (B. Sc.I)* of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.

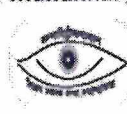


Mr. A. A. Bandgar
Co-ordinator


Asso. Prof. R. A. Dudhal
Head


Prof. (Dr.) M. K. Patil
Principal





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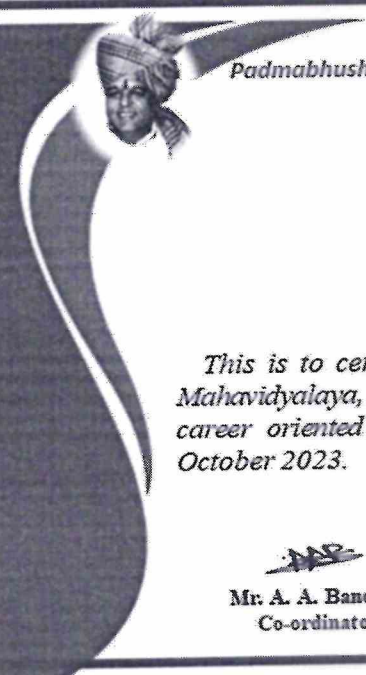
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This is to certify that Mr./Ms. Ghodake Pija Govind (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


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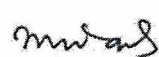



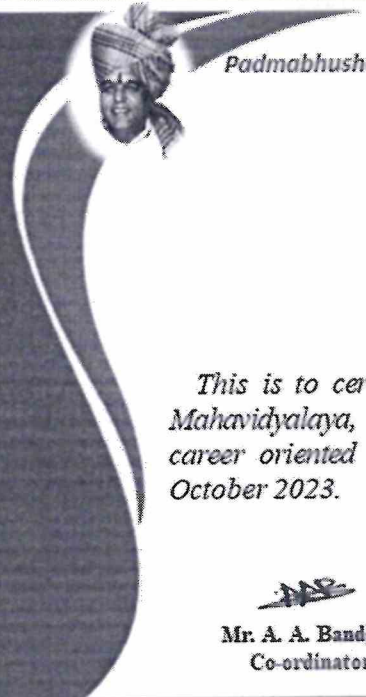
**Career Oriented Course in
 Introduction to Python
 Certificate**

This is to certify that Mr./Ms. Sulunkhe Sanjay Dilip (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


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 Head


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This is to certify that Mr./Ms. Patil Vishakha Vilas (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.



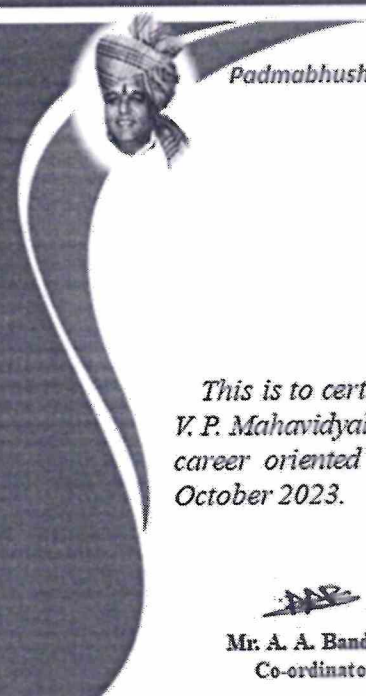
Mr. A. A. Bandgar
Co-ordinator





Asso. Prof. R. A. Dudhal
Head



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Principal




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This is to certify that Mr./Ms. Chougale Shubhangi Gorakhnath (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




Mr. A. A. Bandgar
Co-ordinator





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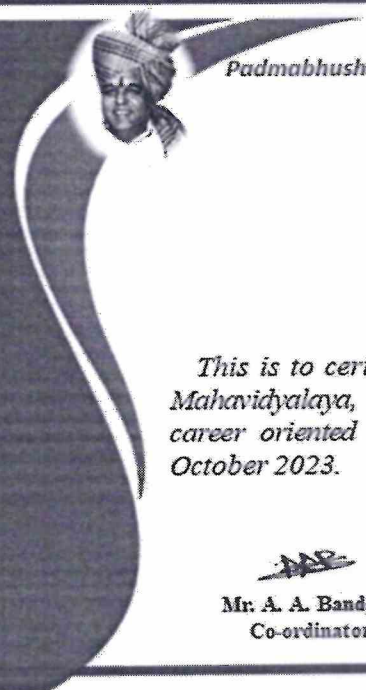
**Career Oriented Course in
 Introduction to Python
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This is to certify that Mr./Ms. Karande Swaranjali Sanjay (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
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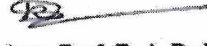
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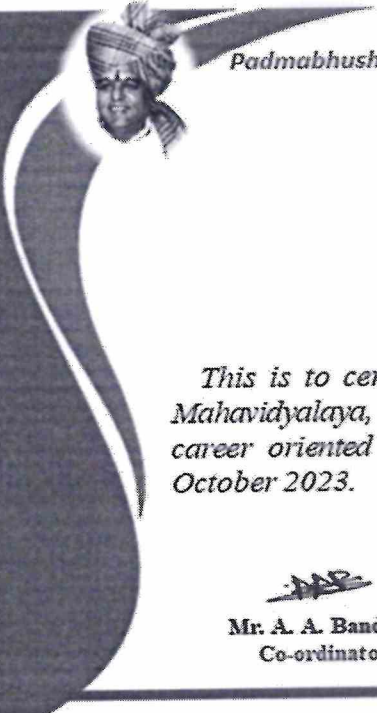
**Career Oriented Course in
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 Certificate**

This is to certify that Mr./Ms. Salunkhe Riya Ravsaheb (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
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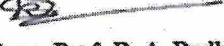
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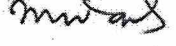



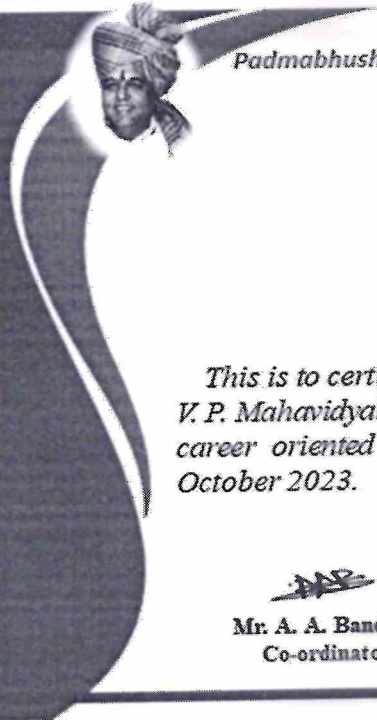
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This is to certify that Mr./Ms. Chavan Sakshi Suresh (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


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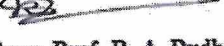
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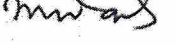



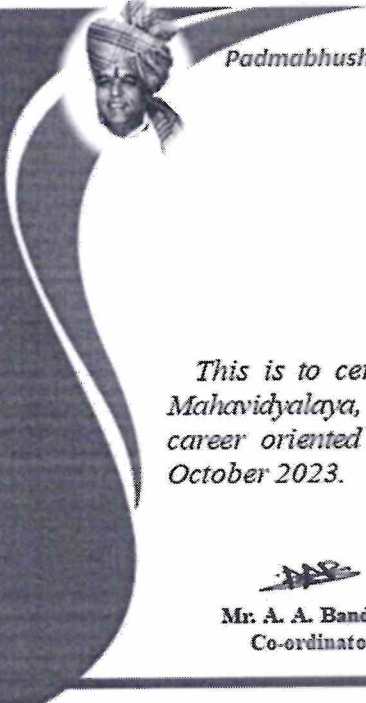
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 Introduction to Python
 Certificate**

This is to certify that Mr./Ms. Jatkar Mohammadshohel Imamsab (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
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 Prof. (Dr.) M. K. Patil
 Principal





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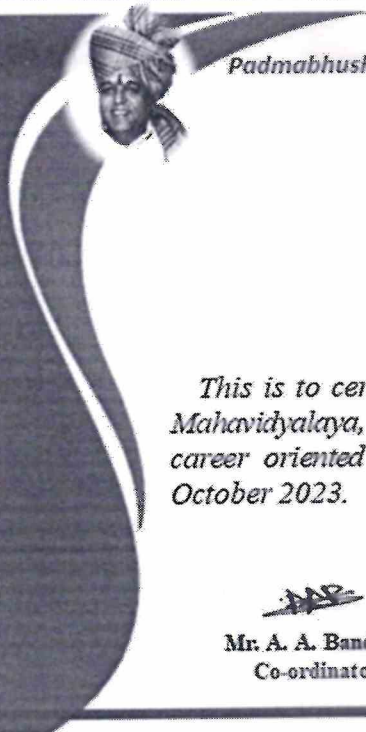
Career Oriented Course in
Introduction to Python
Certificate

This is to certify that *Mr./Ms. Pakhali Simran Alam (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli* has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




Mr. A. A. Bandgar
Co-ordinator


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This is to certify that *Mr./Ms. Sonur Ashwini Yashwant (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli* has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


Mr. A. A. Bandgar
Co-ordinator


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 Padmabhushan Vasantaoadada Patil Mahavidyalaya, Kavathe Mahankal ,
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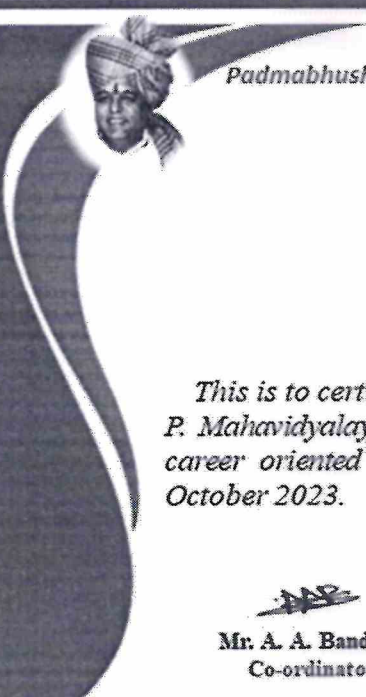

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Introduction to Python
Certificate

This is to certify that Mr./Ms. Sayar Ranjit Kallappa (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


 Asso. Prof. R. A. Dudhal
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Shikshan Prasarak Sanstha's
 Padmabhushan Vasantaoadada Patil Mahavidyalaya, Kavathe Mahankal ,
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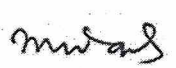



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This is to certify that Mr./Ms. Shinde Prathmesh Chandrakant (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


 Mr. A. A. Bandgar
 Co-ordinator


 Asso. Prof. R. A. Dudhal
 Head


 Prof. (Dr.) M. K. Patil
 Principal




Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal ,
Dist : Sangli, (Maharashtra)
Department of Mathematics
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Career Oriented Course in
Introduction to Python
Certificate

This is to certify that Mr./Ms. **Hipparkar Navanath Haridas (B. Sc.I)** of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


Mr. A. A. Bandgar
Co-ordinator


Asso. Prof. R. A. Dudhal
Head


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Shikshan Prasarak Sanstha's
Padmabhushan Vasanttraodada Patil Mahavidyalaya, Kavathe Mahankal ,
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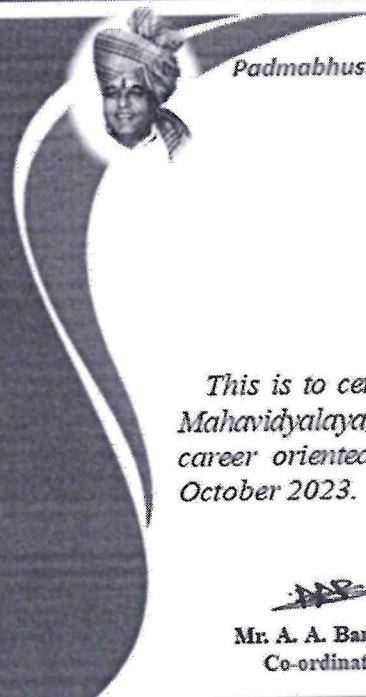
Career Oriented Course in
Introduction to Python
Certificate

This is to certify that Mr./Ms. **Aladi Sakshi Mahesh (B. Sc.I)** of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




Mr. A. A. Bandgar
Co-ordinator


Asso. Prof. R. A. Dudhal
Head


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 Padmabhushan Vasantaoadada Patil Mahavidyalaya, Kavathe Mahankal ,
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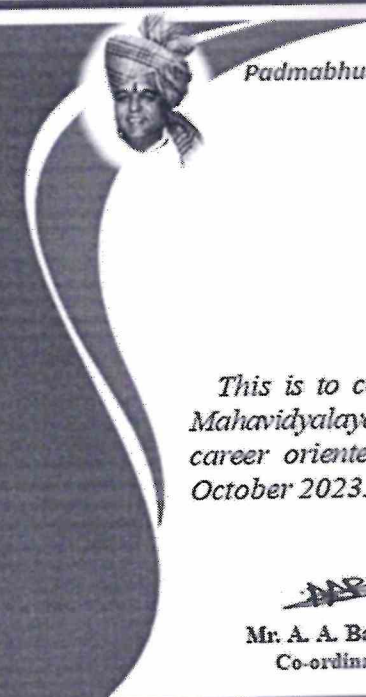
**Career Oriented Course in
 Introduction to Python
 Certificate**

This is to certify that Mr/Ms. Mirajkar Kundan Pramod (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


 Asso. Prof. R. A. Dudhal
 Head


 Prof. (Dr.) M. K. Patil
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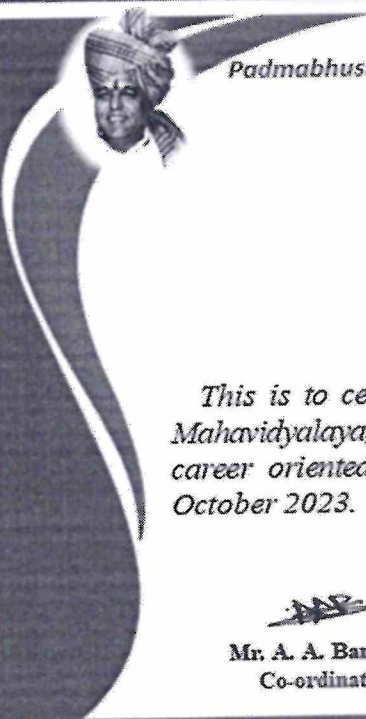
**Career Oriented Course in
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This is to certify that Mr./Ms. Khot Harshad Girajappa (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


 Asso. Prof. R. A. Dudhal
 Head


 Prof. (Dr.) M. K. Patil
 Principal





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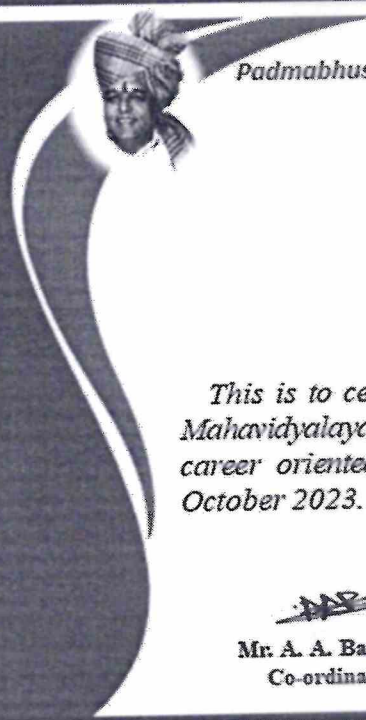
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This is to certify that Mr./Ms. Patil Vaishnavi prakash (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


 Asso. Prof. R. A. Dudhal
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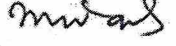



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This is to certify that Mr./Ms. Pawar Prathmesh Deepak (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


 Mr. A. A. Bandgar
 Co-ordinator


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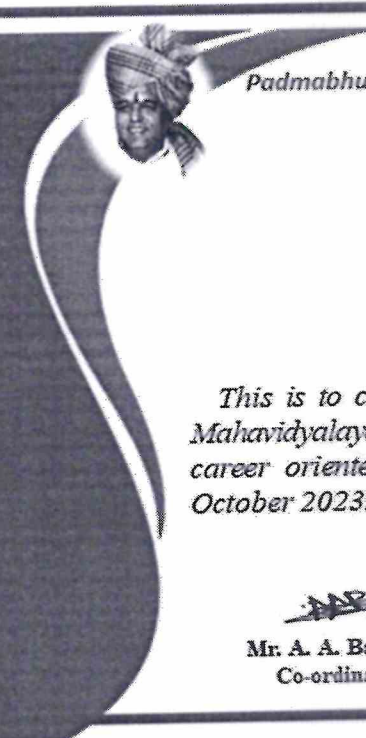

Career Oriented Course in
Introduction to Python
Certificate

*This is to certify that Mr./Ms. **Bhosale Sayali Balkrishna (B. Sc.I)** of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.*



Mr. A. A. Bandgar
 Co-ordinator


Asso. Prof. R. A. Dudhal
 Head


Prof. (Dr.) M. K. Patil
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Career Oriented Course in
Introduction to Python
Certificate

*This is to certify that Mr./Ms. **Pawar Prathmesh Ravso (B. Sc.I)** of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.*


Mr. A. A. Bandgar
 Co-ordinator


Asso. Prof. R. A. Dudhal
 Head


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This is to certify that Mr./Ms. Gadade Suyash Santosh (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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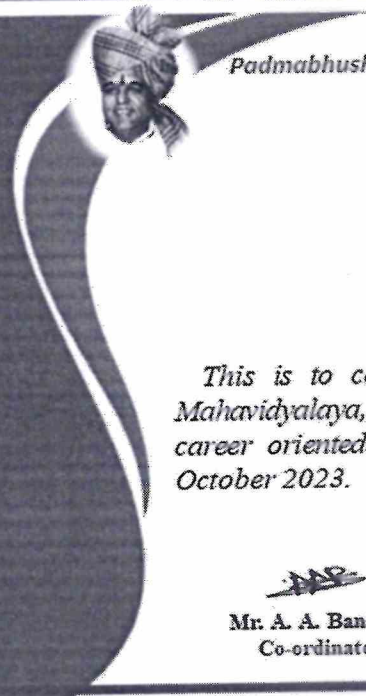

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This is to certify that Mr./Ms. Thorat Kondiba Biru (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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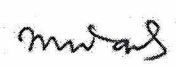



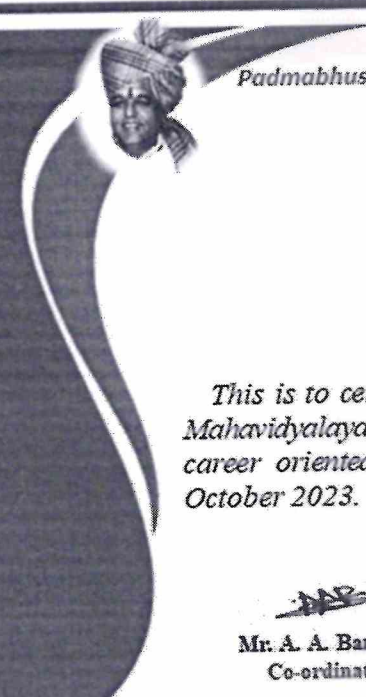
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This is to certify that Mr./Ms. Pawar Yash Dilip (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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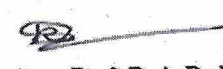
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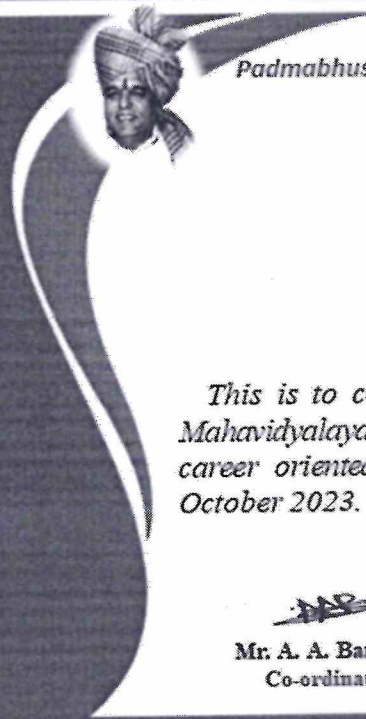
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This is to certify that Mr./Ms. Bandgar Prakash Suryaba (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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This is to certify that Mr./Ms. Sargar Kajal Birudev (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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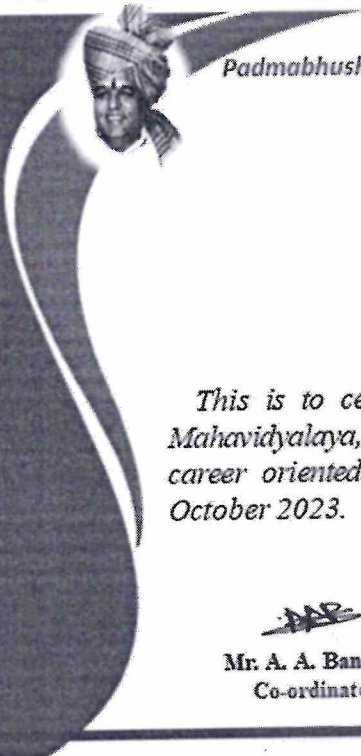

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This is to certify that Mr./Ms. Kale Sumit Kalyani (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.



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This is to certify that Mr./Ms. Gorad Sagar Sanjiv (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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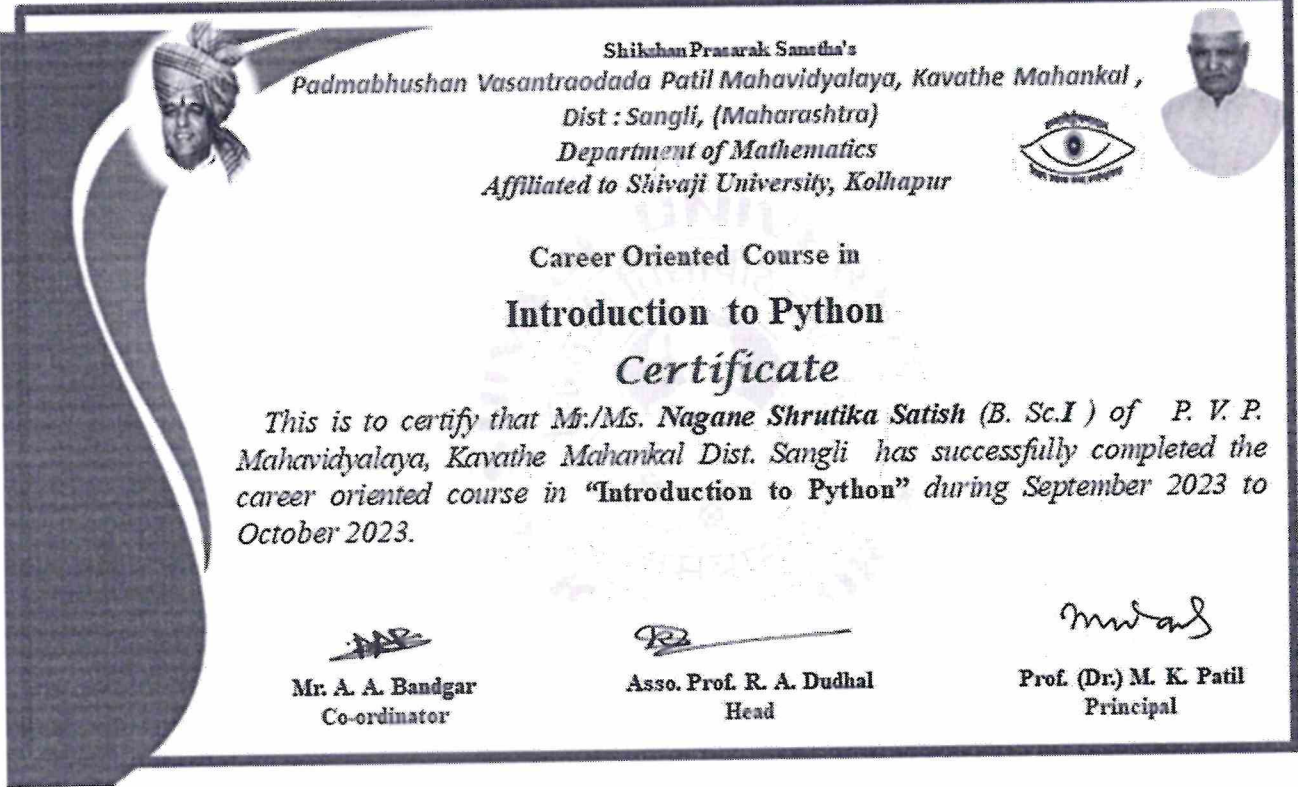

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This is to certify that Mr./Ms. Suryawanshi Mangesh Ganpatrao (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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This is to certify that Mr./Ms. Nagane Shrutika Satish (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.



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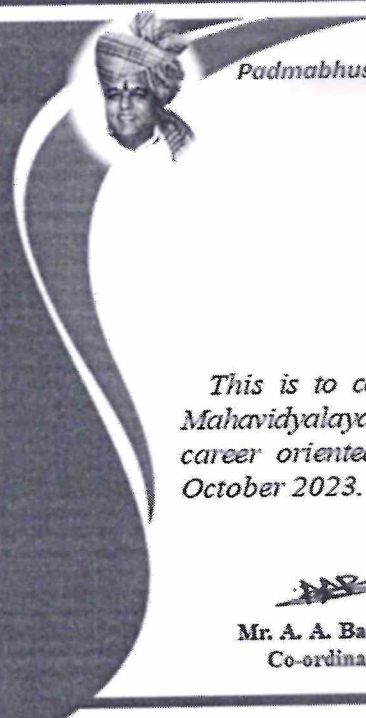
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This is to certify that Mr./Ms. Bhosale Anruta Namdev (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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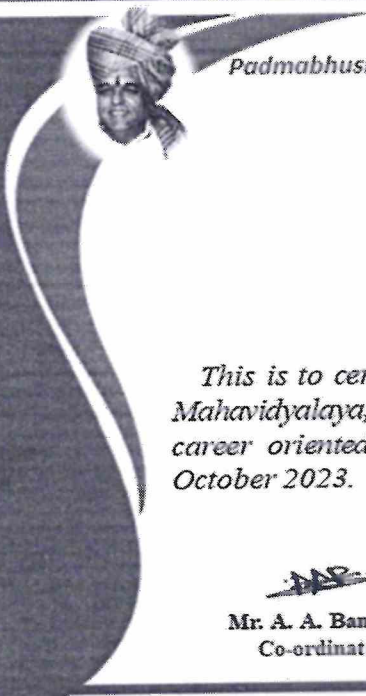
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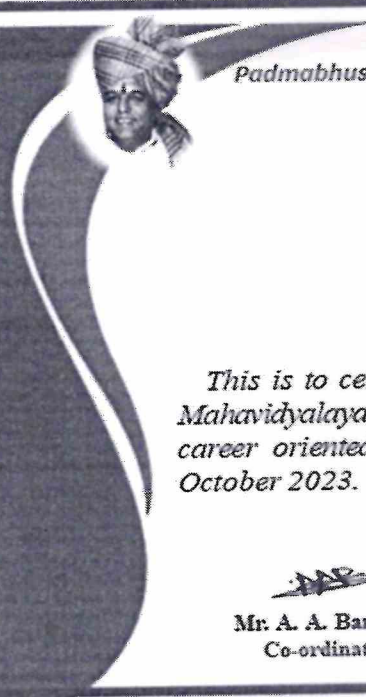
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This is to certify that Mr./Ms. Bhosale Vijay Pandurang (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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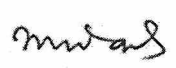


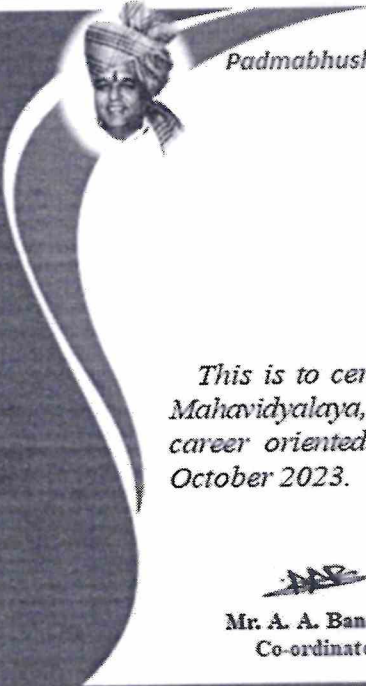
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This is to certify that Mr./Ms. Kore Ishvar Sharanappa (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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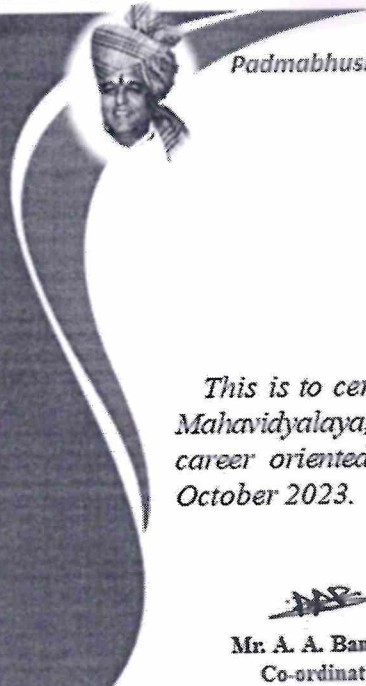
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This is to certify that Mr./Ms. Ghatage Siddhi Balasaheb(B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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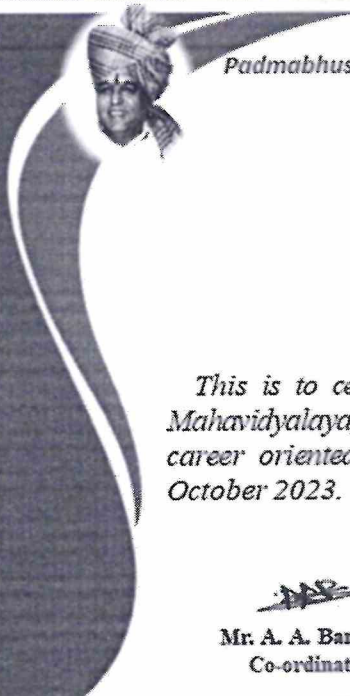
Career Oriented Course in
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This is to certify that Mr./Ms. Kamalakar Akanksha Anil (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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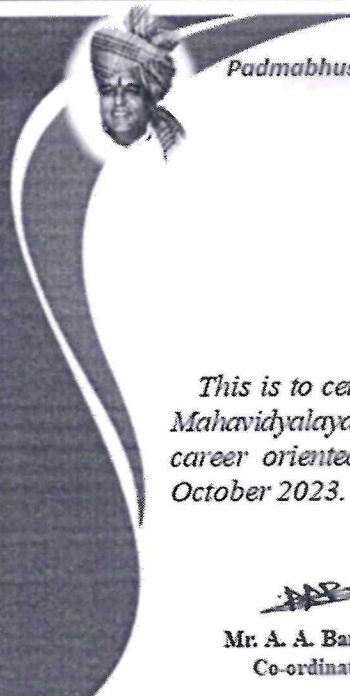
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This is to certify that Mr./Ms. Mane Shital Sambhaji (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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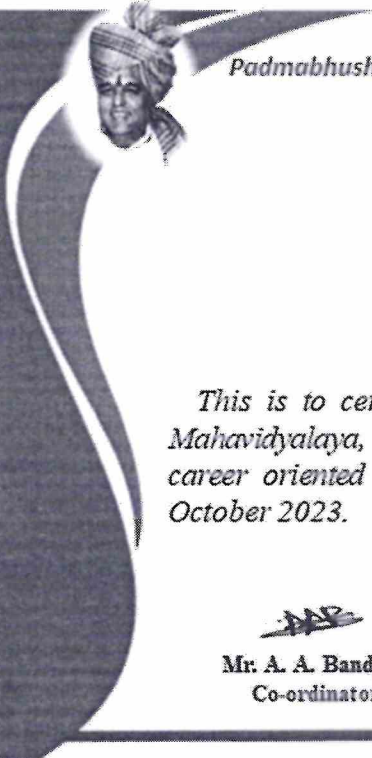
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This is to certify that Mr./Ms. Bhosale Dhanashri Sarjerao (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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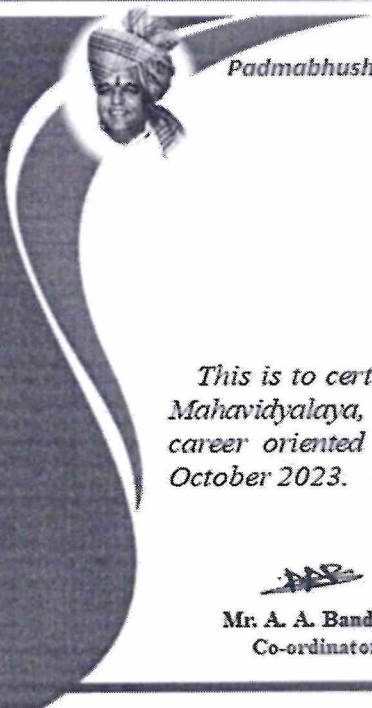
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This is to certify that Mr./Ms. Mane Trupti Kakaso (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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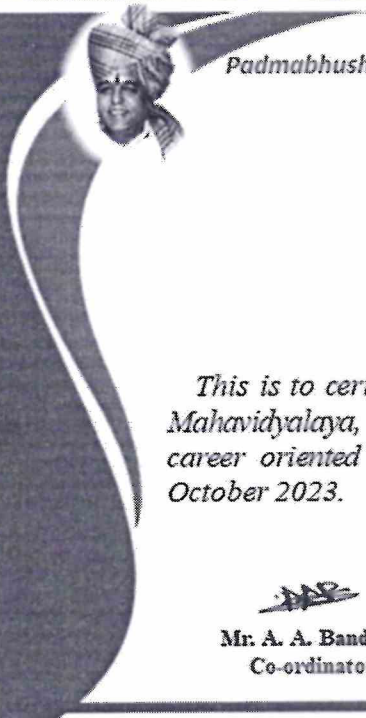
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This is to certify that Mr./Ms. Paalkar Sonali Babasaheb (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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This is to certify that Mr./Ms. Sarvade Priyanka Himmat (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.



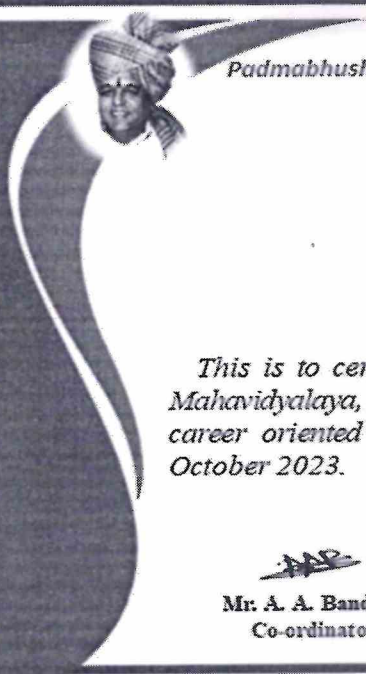
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Co-ordinator





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This is to certify that Mr./Ms. Dhale Ashwini Ankush (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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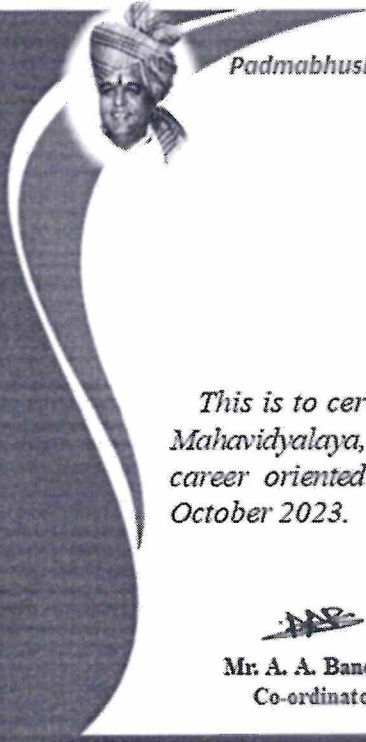

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This is to certify that Mr./Ms. Bhadake Saloni Mahadev (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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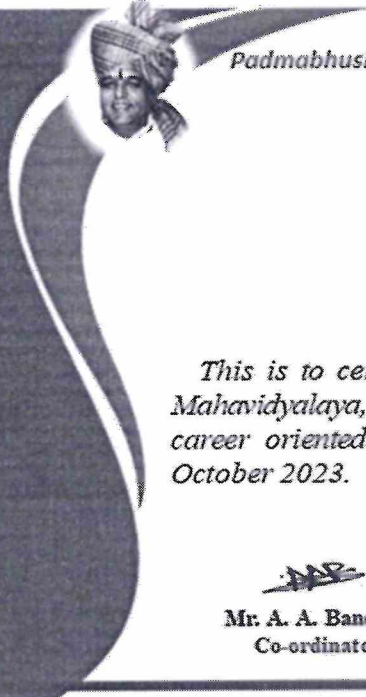
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This is to certify that Mr./Ms. Bhosale Prajakta Hanmant (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




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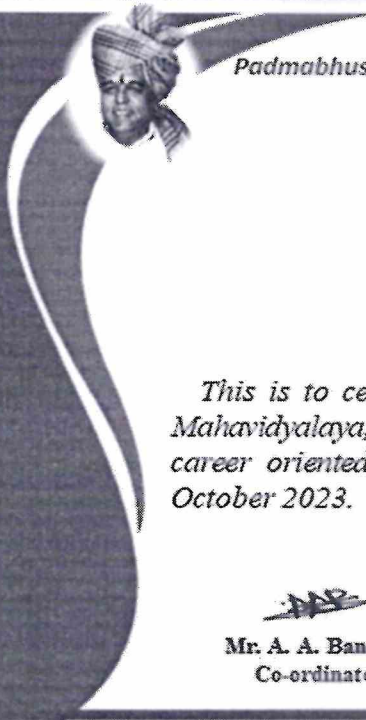
This is to certify that Mr./Ms. Vaishnavi Kakaso Patil (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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This is to certify that Mr./Ms. Kshirsagar Mansi Anil (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


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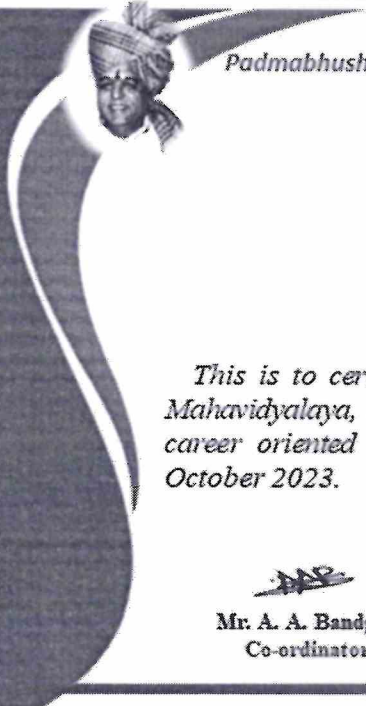
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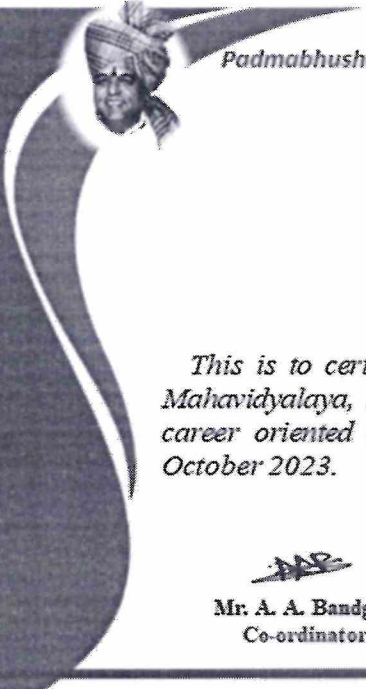
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This is to certify that Mr./Ms. Mane Hanmant Tanaji (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.

Mr. A. A. Bandgar Co-ordinator	Asso. Prof. R. A. Dudhal Head	Prof. (Dr.) M. K. Patil Principal



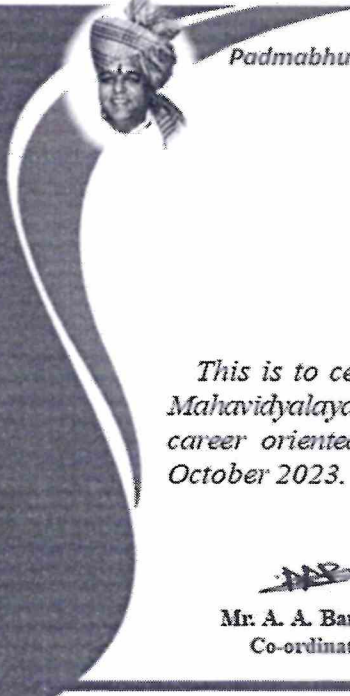
Shikshan Prasarak Sanstha's
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 Dist : Sangli, (Maharashtra)
 Department of Mathematics
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**Career Oriented Course in
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This is to certify that Mr./Ms. Karande Laxmi Babaso (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.

Mr. A. A. Bandgar Co-ordinator	Asso. Prof. R. A. Dudhal Head	Prof. (Dr.) M. K. Patil Principal





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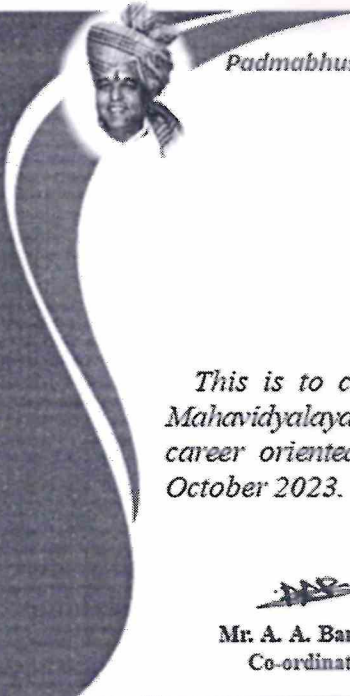
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This is to certify that Mr./Ms. Mane Sandhya Sambhaji (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.




 Mr. A. A. Bandgar
 Co-ordinator


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This is to certify that Mr./Ms. Kore Pranali Jayant (B. Sc.I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has successfully completed the career oriented course in "Introduction to Python" during September 2023 to October 2023.


 Mr. A. A. Bandgar
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 Head


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