

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Mathematics
“Certificate Course in Python”

Course Report: 2022-23

The Department of Mathematics has introduced the Certificate Course “Certificate Course in Python” from the academic year 2021-2022. The course for the academic year 2022-23 was started on 9th January 2023. The timetable was displayed on the department's notice board. 33 students were admitted for the said course. Regular lectures and practicals were conducted according to the time-table. The examination of the said course was conducted and certificates were issued to all the passed students. Students gained the knowledge about programming using Python. The non-teaching staff and the administration of the College and specially Hon. Principal supported a lot in conducting the course.

The record of the course has been maintained in the department. One copy has been submitted to the IQAC cell and the same has been uploaded on the college website.



Course Coordinator
Department of Mathematics



Principal
Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

Kisan Veer Mahavidyalaya, Wai

Date: 06/01/2023

Notice

All the students of B.Sc. III Mathematics are hereby informed that our department is going to conduct the "Certificate Course in Python" This course is compulsory for all B.Sc. III Mathematics students. This course will be starting from 09/01/2023. The time table of the course is displayed on department notice board. Attendance is compulsory for the said course.

Sonu
Head
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803

Gagan
PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara



Janata Shikshan Sansth's

Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

CERTIFICATE COURSE IN PYTHON

SYLLABUS

- 1) **Introduction to Python:**
Python Identifiers and Keywords, data types, simple mathematical operation, Indentation and Comments. Input and Output, First Python program
- 2) **Expression and operators:**
Expression, Boolean expression, logical operations: comparison operator, membership operator, identity operator, bitwise operator. Order of evaluation. File Handling: open, read, write, append modes of file.
- 3) **Conditional Statements:**
if-else, nested if-else, if-elif-else, try-except block.
- 4) **Looping Statements, Control statements:**
Looping Statements: for loop, while loop, Nested loops, Control Statements: break, continue and pass.
- 5) **Functions:**
Built-in functions, User-defined functions, Arguments, recursive function, Python Anonymous/Lambda Function, Global, Local and Nonlocal variables and return statement.
- 6) **Modules and packages in Python:**
Modules, import, import with renaming, from-import statement, math module, cmath module, random module, packages.
- 7) **Python Data structure:**
Strings, list, tuples, dictionary, set and array.
- 8) **Operations on set and array:**
Set operations, Intersection, union, difference, symmetric difference, searching and sorting.
- 9) **Data visualization in Python:** 2D and 3D plot in python: line plot, bar plot, histogram plot, scatter plot, pie plot, area plot, Mandelbrot fractal set visualization.




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Programs:

- 1) Program to Display "Hello Python" on Screen
- 2) Program to create file
- 3) Program to find greater number between two numbers
- 4) Program to find greater and equal number between two numbers
- 5) Program to find the number is Positive or Negative
- 6) Program to calculate the class obtained by the student.
- 7) Program to calculate the maximum between three numbers.
- 8) Program to determine whether the given integer is odd or even.
- 9) Program to find sum of first n integers
- 10) Program to find factorial of n
- 11) Program to check whether a given number is prime or not.
- 12) Program to find factorial of n using Recursive Function
- 13) Program to check whether the given numbers are relatively prime or not.
- 14) Program to verify Euler's formula using Python.
- 15) Program to check palindrome string.(A palindrome string is one that reads the same backward as well as forward.)
- 16) Program to remove duplicates from a list
- 17) Program to add an element in the set.
- 18) Program to remove elements in the set.
- 19) Program to solving systems of linear equations using Gauss Elimination Method
- 20) Program to solving systems of linear equations using LU Decomposition method
- 21) Program to find root of an equation using Bisection Method
- 22) Program to find root of an equation using Newton-Raphson formula
- 23) Program to solving ordinary differential equations (ODEs) with a given initial value using Euler Method
- 24) Program to find the approximate solution of ordinary differential equations (ODEs) with a given initial value using Runge-Kutta 4th Order Method.
- 25) Plotting 2D, 3D graphs.



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Department of Mathematics
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Singh
PRINCIPAL
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Course Objectives:

- To understand the basic concept of programming using Python
- To create an awareness of the importance of Python in Computer Programming
- To learn how to read and write files in Python
- To develop the ability to write the program for the problem related their subjects

Course Outcomes:

At the end of this course, the students will be able to

- Explain basic principles of Python programming language
- Develop logical thinking
- Ability to write programs related to mathematics



A handwritten signature in blue ink, appearing to read "Smit".

Head
Department of Mathematics
Kisan Veer Mahavidyalaya
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A handwritten signature in blue ink, appearing to read "Gagan".

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Department of Mathematics

Certificate Course in Python

2022-23

Assessment Procedure

Name of the Course	Type of Assessment	Marks	Total Marks	Mode of Examination	Duration of Exam
Certificate Course in Python	Coding + Practical Work	40	50	Written + Practical Work	3 hr
	Viva	10		Oral Examination	



Dr. S. R. Tate

(Course Coordinator)



Head

Department of Mathematics
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Kisan Veer Mahavidyalaya, Wai
Department of Mathematics

**CERTIFICATE COURSE IN PYTHON
STUDENT LIST (2022-23)**

Sr. No	Roll NO.	Students Name
1	2	ADSUL MANASI RAJENDRA
2	58	SHINDE ANIL KRUSHNA
3	61	SHAIKH BILAL SALLAUDDIN
4	62	PAWAR PRATIK DATTATRAY
5	66	THOMBARE MADHAVI DIPAK
6	77	WAKALE SARITA SHIVAJI
7	78	RAJPURE MANASI BALKRUSHNA
8	79	RAJPURE PREM JITENDRA
9	80	ANKITA MAHADEV DHANAWDE
10	81	ABOLI ARUN SUTAR
11	82	JATHAR MANSEE PRAVIN
12	91	MAHAMUNI TEJAS RAJENDRA
13	95	HOGADE SHASHIKANT DATTATRAY
14	127	PISAL DINESH ANANDA
15	128	BHOITE ARJUN RAJENDRA
16	131	BHOSALE DHANASHRI SUBODH
17	134	RAJPURE SAHIL SOMNATH
18	13	CHAUDHARI VINIT ASHOK
19	43	PARTE SANIKA PRADIP
20	50	SHINDE PRUTHVIRAJ PRAKASH
21	66	RAUT ANISHA SAMPAT
22	67	THORAVE PRATIK SUDHIR
23	68	JAGTAP JIVAN ATMARAM
24	72	GAIKWAD RUTIKA VITTHAL
25	88	JAGTAP AVISHKAR JEEVAN
26	89	KHARE ATHARV NANDKUMAR
27	90	KARANJE SANKET SANJAY
28	95	CHAVAN SAKSHI SUDHAKAR
29	96	WADKAR YASH MAHENDRA
30	97	SHINGATE NIRANJAN SHIVAJI
31	98	PISAL JAGANNATH KUMAR
32	104	BHOSALE OM RAVINDRA
33	121	SUNEHA RAJPUT

Somra

Course Coordinator
Department of Mathematics



Gagan

Principal
Kisan Veer Mahavidyalaya, Wai

Janata Shikshan Sanstha's

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Department of Mathematics

CERTIFICATE COURSE IN PYTHON

TIME TABLE (2022-23)

Time	Friday	Saturday
11:00 am – 12:00 pm	Theory (VAS)	Theory (VAS)
12:00 pm – 2: 00 pm	Practical (SRT)	Practical (SRT)

Note: For all the students, attendance is compulsory.



Course Coordinator
Department of Mathematics



Principal
Kisan Veer Mahavidyalaya, Wai



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DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (THEORY)

Sr. No	Roll NO.	Students Name	13/01/23	20/01/23	21/01/23	21/01/23	28/01/23	3/02/23	4/02/23	10/02/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	ANA	ANA	ANA	ANA	ANA	ANA	ANA	ANA
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	AB	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	Pratik	Pratik	Pratik	Pratik	Pratik	AB	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Mhadvi	Mhadvi	Mhadvi	Mhadvi	Mhadvi	AB	Mhadvi	Mhadvi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure
8	79	RAJPURE PREM JITENDRA	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	AB	P.J. Rajpure	P.J. Rajpure	AB	P.J. Rajpure
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar
11	82	JATHAR MANSEE PRAVIN	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite
16	131	BHOSALE DHANASHRI SUBODH	D.S.B.	D.S.B.	D.S.B.	AB	D.S.B.	AB	D.S.B.	D.S.B.
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	AB	Sahil	AB	Sahil	Sahil

Verdant
 (Mrs) V. A. Gaudant



Department of Mathematics
 Kisan Veer Mahavidyalaya
 Wai - 412803

KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE IN PYTHON (2022-23)
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Sr. No	Roll NO.	Students Name	13/01/23	20/01/23	21/01/23	27/01/23	28/01/23	3/02/23	4/02/23	10/02/23
18	13	CHAUDHARI VINIT ASHOK	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>
19	43	PARTE SANIKA PRADIP	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>	<i>Pshou</i>
21	66	RAUT ANISHA SAMPAT	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>	<i>ARaut</i>
22	67	THORAVE PRATIK SUDHIR	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>
23	68	JAGTAP JIVAN ATMARAM	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>
26	89	KHARE ATHARV NANDKUMAR	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>
27	90	KARANJE SANKET SANJAY	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>
29	96	WADKAR YASH MAHENDRA	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>Nishingate</i>	<i>Nishingate</i>	AB	<i>Nishingate</i>	<i>Nishingate</i>	AB	AB	AB
31	98	PISAL JAGANNATH KUMAR	<i>Jp</i>	<i>Jp</i>	<i>Jp</i>	<i>Jp</i>	AB	AB	<i>Jp</i>	<i>Jp</i>
32	104	BHOSALE OM RAVINDRA	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	AB	<i>ORB</i>
33	121	SUNEHA RAJPUT	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>

(M) V.A. Sawant



Head
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KISAN VEER MAHA VIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (THEORY)

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5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	AB	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
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16	131	BHOSALE DHANASHRI SUBODH	Dhanshri	Dhanshri	Dhanshri	AB	Dhanshri	AB	Dhanshri	Dhanshri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	AB	Sahil	AB	Sahil	AB

Dr. V.A. Sawant



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Janata Shikshan Sanstha's

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19	43	PARTE SANIKA PRADIP	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>	<u>Pruthviraj</u>
21	66	RAUT ANISHA SAMPAT	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>	<u>Anisha</u>
22	67	THORAVE PRATIK SUDHIR	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>	<u>Pratik</u>
23	68	JAGTAP JIVAN ATMARAM	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>	<u>Jivanshu</u>
24	72	GAIKWAD RUTIKA VITTHAL	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>	<u>Rutika</u>
25	88	JAGTAP AVISHKAR JEEVAN	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>	<u>Avishkar</u>
26	89	KHARE ATHARV NANDKUMAR	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>	<u>Atharv</u>
27	90	KARANJE SANKET SANJAY	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>	<u>Sanket</u>
28	95	CHAVAN SAKSHI SUDHAKAR	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>
29	96	WADKAR YASH MAHENDRA	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>	<u>Yash</u>
30	97	SHINGATE NIRANJAN SHIVAJI	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>	<u>Niranjana</u>
31	98	PISAL JAGANNATH KUMAR	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>	<u>Jagan</u>
32	104	BHOSALE OM RAVINDRA	<u>Om</u>	<u>Om</u>	<u>Om</u>	<u>Om</u>	<u>Om</u>	<u>Om</u>	<u>Om</u>	<u>Om</u>
33	121	SUNEHA RAJPUT	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>	<u>Suneha</u>

Pratik
(Mrs V.A. Sawant)



Head Pr
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803

KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (THEORY)

Sr. No	Roll NO.	Students Name	17/03/23	18/03/23	24/03/23	25/03/23	31/03/23	1/04/23	8/04/23	15/04/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
8	79	RAJPURE PREM JITENDRA	Prem	Prem	Prem	Prem	Prem	Prem	Prem	Prem
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	AB	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun
11	82	JATHAR MANSEE PRAVIN	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	Arjun	Arjun	Arjun	Arjun	Arjun	AB	Arjun	Arjun
16	131	BHOSALE DHANASHRI SUBODH	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

(Mrs. V. A. Sawant)



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KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE IN PYTHON (2022-23)
ATTENENCE (THEORY)

Sr. No	Roll NO.	Students Name	17/03/23	18/03/23	24/03/23	25/03/23	31/03/23	1/04/23	8/04/23	15/04/23
18	13	CHAUDHARI VINIT ASHOK	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>
19	43	PARTE SANIKA PRADIP	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>	<i>Shinde</i>
21	66	RAUT ANISHA SAMPAT	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>	<i>Raut</i>
22	67	THORAVE PRATIK SUDHIR	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>	<i>Thorave</i>
23	68	JAGTAP JIVAN ATMARAM	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>
26	89	KHARE ATHARV NANDKUMAR	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>
27	90	KARANJE SANKET SANJAY	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>
29	96	WADKAR YASH MAHENDRA	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>AB</i>	<i>Yash</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>AB</i>	<i>Nshingate</i>	<i>Nshingate</i>	<i>Nshingate</i>	<i>AB</i>	<i>Nshingate</i>	<i>Nshingate</i>	<i>Nshingate</i>
31	98	PISAL JAGANNATH KUMAR	<i>Jp</i>	<i>Jp</i>	<i>AB</i>	<i>Jp</i>	<i>AB</i>	<i>Jp</i>	<i>Jp</i>	<i>Jp</i>
32	104	BHOSALE OM RAVINDRA	<i>ORB</i>	<i>ORB</i>	<i>AB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>
33	121	SUNEHA RAJPUT	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>

Suneha
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DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE IN PYTHON (2022-23)
ATTENENCE (THEORY)

Sr. No	Roll NO.	Students Name	21/04/23	28/04/23	29/04/23	6/05/23	12/05/23	13/05/23	15/05/23	16/05/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Ana	Ana	Ana	Ana	Ana	Ana	Ana	Ana
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure
8	79	RAJPURE PREM JITENDRA	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure	AB	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure
9	80	ANKITA MAHADEV DHANAWDE	A.Dhanawde	A.Dhanawde	A.Dhanawde	A.Dhanawde	A.Dhanawde	A.Dhanawde	A.Dhanawde	A.Dhanawde
10	81	ABOLI ARUN SUTAR	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar
11	82	JATHAR MANSEE PRAVIN	M.P.Jathar	M.P.Jathar	M.P.Jathar	M.P.Jathar	M.P.Jathar	M.P.Jathar	M.P.Jathar	M.P.Jathar
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	AB	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R.Bhoite	A.R.Bhoite	A.R.Bhoite	A.R.Bhoite	A.R.Bhoite	AB	A.R.Bhoite	A.R.Bhoite
16	131	BHOSALE DHANASHRI SUBODH	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

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18	13	CHAUDHARI VINIT ASHOK	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	43	PARTE SANIKA PRADIP	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	66	RAUT ANISHA SAMPAT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	67	THORAVE PRATIK SUDHIR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	68	JAGTAP JIVAN ATMARAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	89	KHARE ATHARV NANDKUMAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
27	90	KARANJE SANKET SANJAY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
29	96	WADKAR YASH MAHENDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB
31	98	PISAL JAGANNATH KUMAR	AB	AB	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
32	104	BHOSALE OM RAVINDRA	ORB	ORB	ORB	ORB	AB	ORB	ORB	ORB
33	121	SUNEHA RAJPUT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
(Mrs. V.A. Sawant)



Head *[Signature]*
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803

KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	13/01/23	20/01/23	21/01/23	27/01/23	28/01/23	31/02/23	4/02/23	10/02/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	AB	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure
8	79	RAJPURE PREM JITENDRA	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	AB	P.J. Rajpure	P.J. Rajpure
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar
11	82	JATHAR MANSEE PRAVIN	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	AB	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite
16	131	BHOSALE DHANASHRI SUBODH	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

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DEPARTMENT OF MATHEMATICS
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Sr. No	Roll NO.	Students Name	13/01/23	20/01/23	27/01/23	27/01/23	28/01/23	3/02/23	4/02/23	10/02/23
18	13	CHAUDHARI VINIT ASHOK	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	43	PARTE SANIKA PRADIP	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	66	RAUT ANISHA SAMPAT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	67	THORAVE PRATIK SUDHIR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	68	JAGTAP JIVAN ATMARAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	89	KHARE ATHARV NANDKUMAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
27	90	KARANJE SANKET SANJAY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
29	96	WADKAR YASH MAHENDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	AB
31	98	PISAL JAGANNATH KUMAR	AB	AB	AB	AB	AB	JP	JP	JP
32	104	BHOSALE OM RAVINDRA	ORB	ORB	ORB	ORB	ORB	ORB	ORB	ORB
33	121	SUNEHA RAJPUT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE IN PYTHON (2022-23)
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Sr. No	Roll NO.	Students Name	11/02/23	17/02/23	24/02/23	25/02/23	3/03/23	4/03/23	10/03/23	11/03/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	AB
4	62	PAWAR PRATIK DATTATRAY	Pratik	AB	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure	M.B.Rajpure
8	79	RAJPURE PREM JITENDRA	P.J.Rajpure	AB	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure	P.J.Rajpure
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar	A.A.Sutar
11	82	JATHAR MANSEE PRAVIN	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	AB	Tejas	Tejas	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R.Bhoite	A.R.Bhoite	A.R.Bhoite	AB	A.R.Bhoite	A.R.Bhoite	AB	A.R.Bhoite
16	131	BHOSALE DHANASHRI SUBODH	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

Cont.
(Mrs. V.A. Sawant)



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KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	11/02/23	17/02/23	24/02/23	25/02/23	3/03/23	4/03/23	10/03/23	11/03/23
18	13	CHAUDHARI VINIT ASHOK	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>
19	43	PARTE SANIKA PRADIP	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>	<i>Pruthv</i>
21	66	RAUT ANISHA SAMPAT	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>
22	67	THORAVE PRATIK SUDHIR	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>
23	68	JAGTAP JIVAN ATMARAM	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>	<i>Jagtap</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>
26	89	KHARE ATHARV NANDKUMAR	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>
27	90	KARANJE SANKET SANJAY	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>
29	96	WADKAR YASH MAHENDRA	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>	<i>Niranj</i>
31	98	PISAL JAGANNATH KUMAR	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>	<i>Jagann</i>
32	104	BHOSALE OM RAVINDRA	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>
33	121	SUNEHA RAJPUT	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>

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KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	17/03/23	18/03/23	24/03/23	25/03/23	31/03/23	1/04/23	8/04/23	15/04/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
8	79	RAJPURE PREM JITENDRA	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	AB	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar
11	82	JATHAR MANSEE PRAVIN	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee	Mansee
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	AB	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	AB	A.R. Bhoite	AB
16	131	BHOSALE DHANASHRI SUBODH	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri	Dhanashri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

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KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	17/03/23	18/03/23	24/03/23	25/03/23	31/03/23	1/04/23	8/04/23	15/04/23
18	13	CHAUDHARI VINIT ASHOK	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>	<i>Vinit</i>
19	43	PARTE SANIKA PRADIP	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>	<i>Sanika</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>	<i>Pruthviraj</i>
21	66	RAUT ANISHA SAMPAT	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>	<i>Anisha</i>
22	67	THORAVE PRATIK SUDHIR	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>	<i>Pratik</i>
23	68	JAGTAP JIVAN ATMARAM	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>	<i>Jivanshu</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>	<i>Rutika</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>	<i>Avishkar</i>
26	89	KHARE ATHARV NANDKUMAR	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>	<i>Atharv</i>
27	90	KARANJE SANKET SANJAY	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>	<i>Sanket</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>
29	96	WADKAR YASH MAHENDRA	<i>AB</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>AB</i>	<i>Niranjana</i>	<i>Niranjana</i>	<i>Niranjana</i>	<i>Niranjana</i>	<i>AB</i>	<i>Niranjana</i>	<i>AB</i>
31	98	PISAL JAGANNATH KUMAR	<i>Jp</i>	<i>Jp</i>	<i>Jp</i>	<i>AB</i>	<i>AB</i>	<i>AB</i>	<i>Jp</i>	<i>Jp</i>
32	104	BHOSALE OM RAVINDRA	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>AB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>	<i>ORB</i>
33	121	SUNEHA RAJPUT	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>	<i>Suneha</i>

(Mrs. V.A. Sawant)



Sm
 Head
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 Wai - 412803

KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	21/04/23	28/04/23	29/04/23	6/05/23	12/05/23	13/05/23	15/05/23	16/05/23
1	2	ADSUL MANASI RAJENDRA	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
2	58	SHINDE ANIL KRUSHNA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
3	61	SHAIKH BILAL SALLAUDDIN	Bilal	Bilal	Bilal	AB	Bilal	Bilal	Bilal	Bilal
4	62	PAWAR PRATIK DATTATRAY	Pratik	Pratik	AB	Pratik	Pratik	Pratik	Pratik	Pratik
5	66	THOMBARE MADHAVI DIPAK	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi	Madhavi
6	77	WAKALE SARITA SHIVAJI	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
7	78	RAJPURE MANASI BALKRUSHNA	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure	M.B. Rajpure
8	79	RAJPURE PREM JITENDRA	AB	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure	P.J. Rajpure
9	80	ANKITA MAHADEV DHANAWDE	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita	Ankita
10	81	ABOLI ARUN SUTAR	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar	A.A. Sutar
11	82	JATHAR MANSEE PRAVIN	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar	M.P. Jathar
12	91	MAHAMUNI TEJAS RAJENDRA	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
13	95	HOGADE SHASHIKANT DATTATRAY	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant	Shashikant
14	127	PISAL DINESH ANANDA	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
15	128	BHOITE ARJUN RAJENDRA	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite	AB	A.R. Bhoite	A.R. Bhoite	A.R. Bhoite
16	131	BHOSALE DHANASHRI SUBODH	Dhanashri	Dhanashri	Dhanashri	Dhanashri	AB	Dhanashri	Dhanashri	Dhanashri
17	134	RAJPURE SAHIL SOMNATH	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil

Mani
 (M.B. V.A. Sawant)



Department of Mathematics
 Kisan Veer Mahavidyalaya
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KISAN VEER MAHAVIDYALAYA, WAI

DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON (2022-23)
 ATTENENCE (PRACTICAL)

Sr. No	Roll NO.	Students Name	21/04/23	28/04/23	29/04/23	6/05/23	12/05/23	13/05/23	15/05/23	16/05/23
18	13	CHAUDHARI VINIT ASHOK	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	43	PARTE SANIKA PRADIP	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20	50	SHINDE PRUTHVIRAJ PRAKASH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	66	RAUT ANISHA SAMPAT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	67	THORAVE PRATIK SUDHIR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	68	JAGTAP JIVAN ATMARAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	72	GAIKWAD RUTIKA VITTHAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	88	JAGTAP AVISHKAR JEEVAN	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	89	KHARE ATHARV NANDKUMAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
27	90	KARANJE SANKET SANJAY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	95	CHAVAN SAKSHI SUDHAKAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
29	96	WADKAR YASH MAHENDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
30	97	SHINGATE NIRANJAN SHIVAJI	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
31	98	PISAL JAGANNATH KUMAR	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB	AB	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
32	104	BHOSALE OM RAVINDRA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB
33	121	SUNEHA RAJPUT	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
 (Mrs V. A. Sawant)



Head *[Signature]*
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 Wai - 412803

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya Wai
Department of Mathematics
Examination: Certificate Course in Python (2022-23)
Attendance

Date: 20/05/2023

Sr. No	Roll No	Name of the Student	Sign
1	2	ADSUL MANASI RAJENDRA	<i>Adsul</i>
2	58	SHINDE ANIL KRUSHNA	<i>Shinde</i>
3	61	SHAIKH BILAL SALLAUDDIN	<i>B. Shaikh</i>
4	62	PAWAR PRATIK DATTATRAY	<i>P. Pratik</i>
5	66	THOMBARE MADHAVI DIPAK	<i>Thombare</i>
6	77	WAKALE SARITA SHIVAJI	<i>Wakale</i>
7	78	RAJPURE MANASI BALKRUSHNA	<i>M.B. Rajpure</i>
8	79	RAJPURE PREM JITENDRA	<i>P. J. Rajpure</i>
9	80	ANKITA MAHADEV DHANAWDE	<i>Ankita</i>
10	81	ABOLI ARUN SUTAR	<i>Arun</i>
11	82	JATHAR MANSEE PRAVIN	<i>M.P. Jathar</i>
12	91	MAHAMUNI TEJAS RAJENDRA	<i>M. Mahamuni</i>
13	95	HOGADE SHASHIKANT DATTATRAY	<i>Hogade</i>
14	127	PISAL DINESH ANANDA	<i>Pisal</i>
15	128	BHOITE ARJUN RAJENDRA	<i>A. Bhoite</i>
16	131	BHOSALE DHANASHRI SUBODH	<i>Bhosale</i>
17	134	RAJPURE SAHIL SOMNATH	<i>Rajpure</i>

Head
(Mrs. V.A. Sawant)



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Head
Department of Mathematics
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Wai - 412803

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PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya Wai
Department of Mathematics
Examination: Certificate Course in Python (2022-23)
Attendance

Date: 20/05/2023

B. Sc. II

Sr. No	Roll No	Name of the Student	Sign
18	13	CHAUDHARI VINIT ASHOK	
19	43	PARTE SANIKA PRADIP	
20	50	SHINDE PRUTHVIRAJ PRAKASH	
21	66	RAUT ANISHA SAMPAT	
22	67	THORAVE PRATIK SUDHIR	
23	68	JAGTAP JIVAN ATMARAM	
24	72	GAIKWAD RUTIKA VITTHAL	
25	88	JAGTAP AVISHKAR JEEVAN	
26	89	KHARE ATHARV NANDKUMAR	
27	90	KARANJE SANKET SANJAY	
28	95	CHAVAN SAKSHI SUDHAKAR	
29	96	WADKAR YASH MAHENDRA	
30	97	SHINGATE NIRANJAN SHIVAJI	
31	98	PISAL JAGANNATH KUMAR	
32	104	BHOSALE OM RAVINDRA	
33	121	SUNEHA RAJPUT	

(Mrs. V. A. Sawant)



Head
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803

PRINCIPAL
KISAN VEER MAHAVIDYALAYA
Wai, Dist. Satara

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Certificate Course in Python Examination-2023

Day & Date: Saturday, 20-05-2023

Time: 8.00 a.m. to 11.00 a.m. □

Total Marks:50

Instructions: 1) All questions are compulsory.

2) Figure to the right indicates full marks.

3) Distribution of Marks: Practical work (40) + Viva Voce (10).

- Q 1. A) Write a program in Python to find the numerical solution of the differential equation $\frac{dy}{dx} = f(x, y)$ with initial conditions $y = y_0$ when $x = x_0$ using **Euler's Method**. (10)
- B) Run the **Euler's Method** program to solve $\frac{dy}{dx} = -y$ with initial conditions $y(0) = 1$ take $h = 0.01$ and find the value of y at $x = 0.04$. (05)
- OR
- Q 1. A) Write a program in Python to solve a system of Linear equations $AX = B$ by using **Gauss Elimination method**. (10)
- B) Run the **Gauss Elimination method** program to solve the following system of equations $6x-4y + z = -14, -4x + 6y-4z = 36, x-4y + 6z = 6$. (05)
- Q 2. A) Write a program in Python to find the numerical solution of the differential equation $\frac{dy}{dx} = f(x, y)$ with initial conditions $y = y_0$ when $x = x_0$ using **second order Runge-Kutta Method**. (10)
- B) Run the **second order Runge-Kutta** program to solve $\frac{dy}{dx} = y-x$ with initial conditions $y(0) = 2$ take $h = 0.1$ and find the value of y at $x = 0.4$. (05)
- OR
- Q 2. A) Write a program in Python to find one of the approximate roots of function $f(x)$ using **Newton Raphson method**. (10)
- B) Run the **Newton Raphson method** program to find the root of $f(x) = x^4 - 6.4x^3 + 6.45x^2 + 20.538x - 31.752$ with initial root 2 correct to four decimal places. (05)
- Q 3. Solve any **Two** of the following problems by using Python. (10)
- Construct two lists list1=["a", "b"], list2=[1, 2] and concatenate in list3.
 - Construct two sets S={1, 2, 3} and T={3, 4, 5} and find union using union() method.
 - Create a dictionary D={1: "One", 2: "two", 3: "three"} and remove second item the dictionary using pop() method.
 - Find factorial of 10 using factorial () method in Math module.

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Marksheet

Time: 8:00 am to 11:00 am

Date: 20/05/2023

Sr. No	Roll No	Name of the Student	Marks
1	2	ADSUL MANASI RAJENDRA	50
2	58	SHINDE ANIL KRUSHNA	50
3	61	SHAIKH BILAL SALLAUDDIN	47
4	62	PAWAR PRATIK DATTATRAY	45
5	66	THOMBARE MADHAVI DIPAK	49
6	77	WAKALE SARITA SHIVAJI	50
7	78	RAJPURE MANASI BALKRUSHNA	48
8	79	RAJPURE PREM JITENDRA	47
9	80	ANKITA MAHADEV DHANAWDE	49
10	81	ABOLI ARUN SUTAR	48
11	82	JATHAR MANSEE PRAVIN	49
12	91	MAHAMUNI TEJAS RAJENDRA	40
13	95	HOGADE SHASHIKANT DATTATRAY	49
14	127	PISAL DINESH ANANDA	49
15	128	BHOITE ARJUN RAJENDRA	40
16	131	BHOSALE DHANASHRI SUBODH	49
17	134	RAJPURE SAHIL SOMNATH	48
18	13	CHAUDHARI VINIT ASHOK	38
19	43	PARTE SANIKA PRADIP	48
20	50	SHINDE PRUTHVIRAJ PRAKASH	39
21	66	RAUT ANISHA SAMPAT	45
22	67	THORAVE PRATIK SUDHIR	35
23	68	JAGTAP JIVAN ATMARAM	36
24	72	GAIKWAD RUTIKA VITTHAL	40
25	88	JAGTAP AVISHKAR JEEVAN	41
26	89	KHARE ATHARV NANDKUMAR	44
27	90	KARANJE SANKET SANJAY	48
28	95	CHAVAN SAKSHI SUDHAKAR	43
29	96	WADKAR YASH MAHENDRA	39
30	97	SHINGATE NIRANJAN SHIVAJI	40
31	98	PISAL JAGANNATH KUMAR	42
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Deant
(Mrs. V.A. Sawant)

Gagan
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Sms
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Wai - 412803

10. One Sample Certificate of the pass



Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Mathematics



This is to certify that **Mr. Shinde Anil Krushna** of B. Sc. III (Mathematics) class has completed successfully **Certificate Course in Python** conducted by Department of Mathematics, Kisan Veer Mahavidyalaya, Wai for the Academic year 2022-23 and obtained Grade "A".

Co-ordinator
Head, Department of Mathematics
Kisan Veer Mahavidyalaya, Wai

Principal
Kisan Veer Mahavidyalaya, Wai

11. Geotagged Photo

