

**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Mathematics**  
**Certificate Course in Python**  
**Report 2021-22**

The department of Mathematics had decided to conduct a certificate course for B.Sc. I, II and III in departmental meeting. The title of the course is "Certificate Course in Python" was finalized. The notification and advertisement were made through our college website and Brochure of the course was uploaded on the college website. The course was started on 22<sup>nd</sup> Nov 2021. The timetable was displayed on the department's notice board.

60 students were admitted for the said course. Regular lectures and practicals were conducted according to the time-table. Department of BCA, Statistics and Mathematics in Collaboration with Patil Academy, Satara organized Three-day workshop on "Python in Future Technologies" on 18<sup>th</sup>, 20<sup>th</sup> and 22<sup>nd</sup> December 2021. Examination of the said course was conducted and certificates were issued to all the passed students. Students gained the knowledge about programming using Python and one more certificate along with the B.Sc. degree. The supportive staff and the administration of the College and specially Hon. Principal supported a lot.

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



Dr. S. R. Tate

**Course Co-ordinator**  
**Head**  
**Department of Mathematics**  
Kisan Veer Mahavidyalaya  
Wai - 412803



Dr. G. J. Fagare

**Principal**  
**PRINCIPAL**  
KISAN VEER MAHAVIDYALAYA  
Wai, Dist. Satara

Department of Mathematics  
Kisan Veer Mahavidyalaya, Wai  
Date:- 26/10/2021.

To,  
Principal,  
Kisan Veer Mahavidyalaya, Wai.

Sub: - **About starting a new short term course "Certificate Course in Python" for B. Sc. I, II & III from academic year 2021-22**

Respected Sir,

With reference to above subject, Department of Mathematics going to start a new short-term course for B. Sc. student entitled "**Certificate Course in Python**" from academic year 2021-22. Duration of the course will be 3 Months.

So, it is a humble request to give permission to start this course.

Thanking You,

Yours Sincerely,



(Dr. S. R. Tate)

**Head**  
**Department of Mathematics**  
Kisan Veer Mahavidyalaya  
Wai - 412803

*A. Akhwal*  
*Principal*  
**I/C PRINCIPAL**  
**KISAN VEER MAHAVIYALAYA**  
Tal. Wai, Dist. Satara



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

**Certificate Course in Python**

2021-22


**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	

  
(Course Coordinator)



  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

  
I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

Department of Mathematics

Kisan Veer Mahavidyalaya, Wai

Date: 20/11/2021

## Notice

All the students of B.Sc are hereby informed that the Mathematics Department is going to run "Certificate Course in Python" of three months from 22/11/2021. Willing students should contact to Mathematics Department.

*Smit*

Course Co-ordinator

Department of Mathematics



*E. Kulevas*

Principal

I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

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


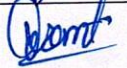


Self Funded Certificate Course in Python

**BOARD OF STUDIES MEETING PROCEEDING**

**Date: 29/10/2021**

The first meeting of the BOS was called on dated 29<sup>th</sup> October 2021, at 2.30 P.M. at Kisan Veer Mahavidyalaya, Wai.


**Present Member:**

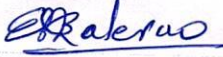
Sr. No.	Name	Designation	Sign
1	Dr. S. R. Tate	Head, Department of Mathematics	
2	Mrs. V. A. Sawant	Assistant Professor	
3	Mr. S. S. Nalavade	Expert, Head, Department of Mathematics, Yashavantrao Chavan Institute of Science, Satara	
4	Mrs. S. A. Patil	Expert, Patil Academy, Satara	

Following subjects were discussed in the meeting.

- 1) Formulation of syllabus for Certificate Course in Python.
- 2) Aims and objectives of the course were designed and framed.
- 3) Accordingly the papers, topics and sub topics were designed as per the need of the course.
- 4) It has been unanimously decided that the said Course should be of 30 Clock Hours duration. (Including 10 Clock Hours Theory & 20 Clock Hours hands on Training)
- 5) It has been decided that B.Sc. I, II & III Students are eligible for this course.
- 6) Since there was no matter for discussion, the meeting was concluded.



  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

  
Principal  
Kisan Veer Mahavidyalaya, Wai  
Tal. 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.



Head

Department of Mathematics  
Kisan Veer Mahavidyalaya,  
Wai - 412803



Principal  
Kisan Veer Mahavidyalaya, Wai  
Tal. Wai, Dist. Satara

## Practical 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.

Evaluation: Practical Work (40) + Viva Voce (10).

*Somut*

Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803



*E. B. Devarao*

Principal  
Kisan Veer Mahavidyalaya, Wai  
Tal. Wai, Dist. Satara

## 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



*Samz*

**Head**  
**Department of Mathematics**  
Kisan Veer Mahavidyalaya  
Wai - 412803

*Prakash Rao*

**Principal**  
Kisan Veer Mahavidyalaya, Wai  
Tal. Wai, Dist. Satara



Janata Shikshan Sanstha's  
**Kisan Veer Mahavidyalaya, Wai**  
Department of Mathematics  
**CERTIFICATE COURSE IN PYTHON**  
**STUDENT LIST (2021-22)**

SR. NO.	NAME
1	PETKAR DIVYA SANTOSH
2	CHORAGE PRAJAKTA PRAKASH
3	DHANAWADE SHRADDHA SANTOSH
4	BHOSALE KAIVALYA SANTOSH
5	BHOSALE RUTUJA DHANAJI
6	ITHAPE VEDIKA PRAMOD
7	DHEKANE PRANAY JANARDHAN
8	PATHAN RUMIJA AMJAD
9	BHOSALE YASH ANANDRAO
10	JEDHE KIRAN DIPAK
11	DESHMUKH DINESH SUDESH
12	YADAV ANIKET ROHIDAS
13	BIRAJDAR RUDRA RAGHUNATH
14	PAWAR ARYAN AVINASH
15	DAGADE DHIRAJ DATTATRAY
16	JADHAV LAXMAN KALYAN
17	SALUNKHE SHRUTI ANNA
18	ADITYA SHASHIKANT JAYKAR
19	JORKAR NIKHIL ANNA
20	CHAVAN ASHITOSH PRALHAD
21	JADHAV PRANAV RAVINDRA
22	NANAWARE TANAYA RAJENDRA
23	PISAL SAI KRUSHNA
24	MANE JYOTI RAJENDRA
25	MAHADIK MAYURI BALA
26	BHILARE AMIT SHANTARAM
27	JAGTAP ASHISH RAMESH
28	PATNE SANKET GULAB
29	ANKITA MAHADEV DHANAWDE
30	OMBALE PRATIK RAJENDRA
31	KAKADE SANGRAM DATTATRAY
32	SHINDE ADITYA BALAWANT
33	SUPRIYA BHAGWAN CHAUDHARI
34	PUJARI KIRTI CHENNA
35	NEVARE DISHA SUDHIR
36	BHOSALE SIDDHANTI DATTATRAY
37	THORAVE PRAJAKTA SATISH
38	WAGH OMKAR AJIT
39	PANSE ASHUTOSH VINOD
40	MAHANGADE PRITAM SANJAY.
41	SHINDE PRAVIN RAMESH.



42	NIKITA SURESH MANDHARE
43	JADHAV UTTARA VILAS
44	CHAVAN SUKANYA VASANT
45	SAHIL SHIVAJI MANDHARE
46	CHIKANE SIDDHI RAMESH
47	CHIKANE RIDDHI RAMESH
48	DIVYA DEEPAK BAVALEKAR
49	BHOSALE SHIVAM SHAILESH
50	SAWANT RUSHIKESH RAJENDRA
51	JAIGUDE NISHANT PRAKASH
52	GAIKWAD PRASAD RAVINDRA
53	MANE SAKSHI GANGADHAR
54	SANKPAL RUTUJA NARAYAN
55	KHALATE ABHISHEK AUDUMBAR
56	GHORPADE SHRIKANT SHANTARAM
57	NIKAM SAURABH RAMDAS
58	SHINDE RUTUJA GULABSING
59	MOHITE ANIKET DILIP
60	GAIKWAD NIKITA SANJAY

*Soni*

**Co-ordinator**

**Head, Department of Mathematics**

**Kisan Veer Mahavidyalaya, Wai**



*E. R. Raut*

**I/C PRINCIPAL**  
**KISAN VEER MAHAVIDYALAYA**  
**Tal. Wai, Dist. Satara**



Janata Shikshan Sanstha's

# Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

## Certificate Course in Python

TIME TABLE (2021-22)

Time	Monday	Tuesday
2:00 pm – 3:00 pm	Theory (VAS)	Theory (VAS)
3:00 pm – 4:00 pm	Practical (SRT)	Practical (SRT)

Note: For all the students, attendance is compulsory.



Course Coordinator  
Department of Mathematics



**I/C PRINCIPAL**  
Kisan Veer Mahavidyalaya, Wai  
Tal. Wai, Dist. Satara



Janata Shikshan Sanstha's  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF MATHEMATICS  
Certificate Course in Python  
2021-22  
ATTENDANCE (THEORY & PRACTICAL)

Sr. No.	Name	22/11/2021	26/11/2021	27/11/21	3/12/21	5/12/21	10/12/21	11/12/21	17/12/21
1	PETKAR DIVYA SANTOSH	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>	<u>Devk</u>
2	CHORAGE PRAJAKTA PRAKASH	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>	<u>P.chorge</u>
3	DHANAWADE SHRADDHA SANTOSH	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>
4	BHOSALE KAIVALYA SANTOSH	<u>KSB</u>	<u>KSB</u>	<u>KSB</u>	<u>KSB</u>	<u>KSB</u>	<u>AB</u>	<u>KSB</u>	<u>KSB</u>
5	BHOSALE RUTUJA DHANAJI	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>
6	ITHAPE VEDIKA PRAMOD	<u>Ithape V.P.</u>	<u>Ithape V.P.</u>	<u>Ithape V.P.</u>	<u>Ithape V.P.</u>	<u>Ithape V.P.</u>	<u>Ithape V.P.</u>	<u>AB</u>	<u>Ithape V.P.</u>
7	DHEKANE PRANAY JANARDHAN	<u>Ynay</u>	<u>Ynay</u>	<u>Ynay</u>	<u>AB</u>	<u>Ynay</u>	<u>Ynay</u>	<u>Ynay</u>	<u>Ynay</u>
8	PATHAN RUMIJA AMJAD	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>	<u>R.A.Pathan</u>
9	BHOSALE YASH ANANDRAO	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
10	JEDHE KIRAN DIPAK	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>
11	DESHMUKH DINESH SUDESH	<u>AB</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>	<u>Deshmukh</u>
12	YADAV ANIKET ROHIDAS	<u>YR</u>	<u>YR</u>	<u>YR</u>	<u>YR</u>	<u>YR</u>	<u>YR</u>	<u>YR</u>	<u>YR</u>
13	BIRAJDAR RUDRA RAGHUNATH	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>	<u>Birajdar</u>
14	PAWAR ARYAN AVINASH	<u>Ayan</u>	<u>Ayan</u>	<u>AB</u>	<u>Ayan</u>	<u>Ayan</u>	<u>Ayan</u>	<u>Ayan</u>	<u>Ayan</u>
15	DAGADE DHIRAJ DATTATRAY	<u>D</u>	<u>D</u>	<u>D</u>	<u>AB</u>	<u>AB</u>	<u>D</u>	<u>D</u>	<u>D</u>
16	JADHAV LAXMAN KALYAN	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>	<u>Laxman</u>
17	SALUNKHE SHRUTI ANNA	<u>S.S.A.</u>	<u>S.S.A.</u>	<u>S.S.A.</u>	<u>S.S.A.</u>	<u>S.S.A.</u>	<u>AB</u>	<u>AB</u>	<u>S.S.A.</u>
18	ADITYA SHASHIKANT JAYKAR	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>	<u>Adityakar</u>
19	JORKAR NIKHIL ANNA	<u>Jadkar</u>	<u>Jadkar</u>	<u>Jadkar</u>	<u>AB</u>	<u>Jadkar</u>	<u>Jadkar</u>	<u>Jadkar</u>	<u>Jadkar</u>
20	CHAVAN ASHITOSH PRALHAD	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>	<u>A.P.chavan</u>
21	JADHAV PRANAV RAVINDRA	<u>J</u>	<u>J</u>	<u>J</u>	<u>J</u>	<u>J</u>	<u>J</u>	<u>J</u>	<u>J</u>
22	NANAWARE TANAYA RAJENDRA	<u>TRN</u>	<u>TRN</u>	<u>TRN</u>	<u>TRN</u>	<u>TRN</u>	<u>TRN</u>	<u>TRN</u>	<u>AB</u>
23	PISAL SAI KRUSHNA	<u>Skpisal</u>	<u>AB</u>	<u>Skpisal</u>	<u>Skpisal</u>	<u>Skpisal</u>	<u>Skpisal</u>	<u>Skpisal</u>	<u>Skpisal</u>



Sr. No.	Name	22/11/21	26/11/21	27/11/21	3/12/21	9/12/21	10/12/21	11/12/21	17/12/21
24	MANE JYOTI RAJENDRA	MJR	MJR	MJR	MJR	MJR	MJR	AB	MJR
25	MAHADIK MAYURI BALA	MBMahadik	MBMahadik	MBMahadik	MBMahadik	AB	MBMahadik	MBMahadik	MBMahadik
26	BHILARE AMIT SHANTARAM	AB	Aphilare	Aphilare	Aphilare	Aphilare	Aphilare	Aphilare	Aphilare
27	JAGTAP ASHISH RAMESH	JAGTAPAR	JAGTAPAR	JAGTAPAR	JAGTAPAR	JAGTAPAR	JAGTAPAR	JAGTAPAR	JAGTAPAR
28	PATNE SANKET GULAB	SPatne	SPatne	AB	SPatne	SPatne	SPatne	SPatne	SPatne
29	ANKITA MAHADEV DHANAWDE	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade
30	OMBALE PRATIK RAJENDRA	SSitole	SSitole	SSitole	AB	SSitole	SSitole	SSitole	SSitole
31	KAKADE SANGRAM DATTATRAY	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade
32	SHINDE ADITYA BALAWANT	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS
33	SUPRIYA BHAGWAN CHAUDHARI	Chau	Chau	Chau	Chau	Chau	Chau	Chau	Chau
34	PUJARI KIRTI CHENNA	Pu	Pu	Pu	Pu	AB	Pu	Pu	Pu
35	NEVARE DISHA SUDBHIR	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S
36	BHOSALE SIDDHANTI DATTATRAY	BSD	BSP	BSD	BSD	BSD	BSD	BSD	BSD
37	THORAVE PRAJAKTA SATISH	SPthorate	AB	Spthorate	Spthorate	Spthorate	Spthorate	Spthorate	Spthorate
38	WAGHOMKAR AJIT	AW	AW	AW	AW	AW	AB	AW	AW
39	PANSE ASHUTOSH VINOD	AP	AP	AP	AP	AP	AP	AP	AP
40	MAHANGADE PRITAM SANJAY.	PMahangade	PMahangade	AB	PMahangade	PMahangade	PMahangade	PMahangade	PMahangade
41	SHINDE PRAVIN RAMESH.	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	AB
42	NIKITA SURESH MANDHARE	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	AB	NMandhare
43	JADHAV UTTARA VILAS	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav
44	CHAVAN SUKANYA VASANT	CV	CV	CV	AB	CV	CV	CV	CV
45	SAHIL SHIVAJI MANDHARE	SM	SM	SM	SM	SM	SM	SM	SM
46	CHIKANE SIDDHI RAMESH	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane
47	CHIKANE RIDDHI RAMESH	CR	CR	CR	AB	CR	CR	CR	CR
48	DIVYA DEEPAK BAVALEKAR	DD'B	DD'B	DD'B	DD'B	DD'B	DD'B	DD'B	DD'B
49	BHOSALE SHIVAM SHAILESH	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.
50	SAWANT RUSHIKESH RAJENDRA	SRR	SRR	SRR	SRR	AB	SRR	SRR	SRR
51	JAIGUDE NISHANT PRAKASH	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude
52	GAIKWAD PRASAD RAVINDRA	PR	PR	PR	PR	PR	PR	PR	PR



Sr. No.	Name	22/11/21	26/11/21	27/11/21	3/12/21	4/12/21	10/12/21	11/12/21	12/12/21
53	MANE SAKSHI GANGADHAR	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG
54	SANKPAL RUTUJA NARAYAN	SPM	SPM	SPM	SPM	SPM	SPM	SPM	AB
55	KHALATE ABHISHEK AUDUMBAR	Kh	Kh	Kh	Kh	Kh	Kh	Kh	Kh
56	GHORPADE SHRIKANT SHANTARAM	SPR	SPR	AB	SPR	SPR	SPR	SPR	SPR
57	NIKAM SAURABH RAMDAS	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam
58	SHINDE RUTUJA GULABSING	RShinde	RShinde	RShinde	RShinde	RShinde	AB	RShinde	RShinde
59	MOHITE ANIKET DILIP	AB	<del>MOHITE</del>	<del>MOHITE</del>	<del>MOHITE</del>	<del>MOHITE</del>	<del>MOHITE</del>	<del>MOHITE</del>	<del>MOHITE</del>
60	GAIKWAD NIKITA SANJAY	AB	AB	AB	AB	AB	AB	AB	AB

Qant  
(Teacher - In-charge)



Somrao  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

Shalerao  
I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

Janata Shikshan Sanstha's  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF MATHEMATICS  
Certificate Course in Python  
2021-22



ATTENDENCE (THEORY & PRACTICAL)

Sr. No.	Name	22/5/22	23/5/22	29/5/22	30/5/22	6/5/22	7/5/22	13/5/22	15/5/22
1	PETKAR DIVYA SANTOSH	<del>Dtk</del>	<del>Dtk</del>	AB	<del>Dtk</del>	<del>Dtk</del>	<del>Dtk</del>	<del>Dtk</del>	<del>Dtk</del>
2	CHORAGE PRAJAKTA PRAKASH	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>	<del>Pcharge</del>
3	DHANAWADE SHRADDHA SANTOSH	<del>SP</del>	<del>SP</del>	<del>SP</del>	<del>SP</del>	<del>SP</del>	<del>SP</del>	<del>SP</del>	<del>SP</del>
4	BHOSALE KAIVALYA SANTOSH	<del>KSB</del>	<del>KSB</del>	<del>KSB</del>	<del>KSB</del>	AB	<del>SP</del>	<del>KSB</del>	<del>KSB</del>
5	BHOSALE RUTUJA DHANAJI	AB	AB	AB	AB	AB	AB	AB	AB
6	ITHAPE VEDIKA PRAMOD	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P
7	DHEKANE PRANAY JANARDHAN	Ynay	Ynay	Ynay	Ynay	Ynay	Ynay	Ynay	Ynay
8	PATHAN RUMIJA AMJAD	R.A.Pathan	R.A.Pathan	R.A.Pathan	R.A.Pathan	R.A.Pathan	AB	R.A.Pathan	R.A.Pathan
9	BHOSALE YASH ANANDRAO	A	A	A	A	A	A	A	A
10	JEDHE KIRAN DIPAK	<del>Pedhe</del>	<del>Pedhe</del>	AB	<del>Pedhe</del>	<del>Pedhe</del>	<del>Pedhe</del>	<del>Pedhe</del>	<del>Pedhe</del>
11	DESHMUKH DINESH SUDESH	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>	<del>Peshmukh</del>
12	YADAV ANIKET ROHIDAS	AR	AR	AR	AR	AR	AR	AR	AR
13	BIRAJDAR RUDRA RAGHUNATH	<del>Bisajdar</del>	<del>Bisajdar</del>	<del>Bisajdar</del>	<del>Bisajdar</del>	AB	<del>Bisajdar</del>	<del>Bisajdar</del>	<del>Bisajdar</del>
14	PAWAR ARYAN AVINASH	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>
15	DAGADE DHIRAJ DATTATRAY	<del>In</del>	<del>In</del>	AB	<del>In</del>	<del>In</del>	<del>In</del>	<del>In</del>	<del>In</del>
16	JADHAV LAXMAN KALYAN	Laxman	Laxman	Laxman	Laxman	Laxman	Laxman	Laxman	Laxman
17	SALUNKHE SHRUTI ANNA	S.S.A.	S.S.A.	S.S.A.	AB	S.S.A.	S.S.A.	S.S.A.	AB
18	ADITYA SHASHIKANT JAYKAR	AB	<del>Ajaykar</del>	<del>Ajaykar</del>	<del>Ajaykar</del>	<del>Ajaykar</del>	<del>Ajaykar</del>	<del>Ajaykar</del>	<del>Ajaykar</del>
19	JORKAR NIKHIL ANNA	<del>Nadhav</del>	<del>Nadhav</del>	<del>Nadhav</del>	<del>Nadhav</del>	<del>Nadhav</del>	AB	<del>Nadhav</del>	<del>Nadhav</del>
20	CHAVAN ASHITOSH PRALHAD	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>
21	JADHAV PRANAV RAVINDRA	J	J	J	J	J	J	J	J
22	NANAWARE TANAYA RAJENDRA	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	AB	<del>TR.N.</del>	<del>TR.N.</del>
23	PISAL SAI KRUSHNA	<del>SKPisal</del>	<del>SKPisal</del>	AB	<del>SKPisal</del>	<del>SKPisal</del>	<del>SKPisal</del>	<del>SKPisal</del>	<del>SKPisal</del>



Sr. No.	Name	22/5/22	23/5/22	29/5/22	30/5/22	6/5/22	7/5/22	13/5/22	19/5/22
24	MANE JYOTI RAJENDRA	AB	MJR	MJR	MJR	MJR	MJR	MJR	MJR
25	MAHADIK MAYURI BALA	MJMahadik	AB	MJMahadik	MJMahadik	MJMahadik	MJMahadik	MJMahadik	MJMahadik
26	BHILARE AMIT SHANTARAM	<del>Ahilare</del>	AB	<del>Ahilare</del>	<del>Ahilare</del>	AB	<del>Ahilare</del>	<del>Ahilare</del>	<del>Ahilare</del>
27	JAGTAP ASHISH RAMESH	JagtAPAR	AB	JagtAPAR	JagtAPAR	JagtAPAR	JagtAPAR	JagtAPAR	JagtAPAR
28	PATNE SANKET GULAB	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>	<del>Patne</del>
29	ANKITA MAHADEV DHANAWDE	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>	<del>Dhanawade</del>
30	OMBALE PRATIK RAJENDRA	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>	<del>Ssitole</del>
31	KAKADE SANGRAM DATTATRAY	Skakade	Skakade	AB	Skakade	Skakade	Skakade	Skakade	Skakade
32	SHINDE ADITYA BALAWANT	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>
33	SUPRIYA BHAGWAN CHAUDHARI	Chuz	Chuz	Chuz	Chuz	Chuz	Chuz	Chuz	Chuz
34	PUJARI KIRTI CHENNA	Pu	Pu	Pu	AB	Pu	Pu	Pu	Pu
35	NEVARE DISHA SUDHIR	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	AB	N.D.S
36	BHOSALE SIDDHANTI DATTATRAY	BSD	BSD	BSD	BSD	BSD	BSD	BSD	BSD
37	THORAVE PRAJAKTA SATISH	Spthroate	Spthroate	Spthroate	Spthroate	AB	Spthroate	Spthroate	Spthroate
38	WAGH OMKAR AJIT	AW	AW	AW	AW	AW	AW	AB	AW
39	PANSE ASHUTOSH VINOD	AP	AP	AP	AP	AB	AP	AP	AP
40	MAHANGADE PRITAM SANJAY.	Pmahagade	Pmahagade	Pmahagade	Pmahagade	Pmahagade	Pmahagade	Pmahagade	Pmahagade
41	SHINDE PRAVIN RAMESH.	Pinde	Pinde	Pinde	Pinde	Pinde	Pinde	Pinde	Pinde
42	NIKITA SURESH MANDHARE	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	AB	NMandhare	NMandhare
43	JADHAV UTTARA VILAS	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav
44	CHAVAN SUKANYA VASANT	CV	CV	CV	CV	CV	CV	AB	CV
45	SAHIL SHIVAJI MANDHARE	AB	SMJ	SMJ	SMJ	SMJ	SMJ	SMJ	SMJ
46	CHIKANE SIDDHI RAMESH	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	AB
47	CHIKANE RIDDHI RAMESH	CR	CR	CR	CR	CR	CR	CR	CR
48	DIVYA DEEPAK BAVALEKAR	D'D'B	D'D'B	D'D'B	D'D'B	AB	D'D'B	D'D'B	D'D'B
49	BHOSALE SHIVAM SHAILESH	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.
50	SAWANT RUSHIKESH RAJENDRA	AB	SRR	SRR	SRR	SRR	SRR	SRR	SRR
51	JAIGUDE NISHANT PRAKASH	Jajgude	Jajgude	Jajgude	Jajgude	Jajgude	Jajgude	Jajgude	Jajgude
52	GAIKWAD PRASAD RAVINDRA	<del>Pind</del>	<del>Pind</del>	<del>Pind</del>	AB	<del>Pind</del>	<del>Pind</del>	<del>Pind</del>	<del>Pind</del>





Sr. No.	Name	22/5/22	23/5/22	29/5/22	30/5/22	6/5/22	7/5/22	13/5/22	19/5/22
53	MANE SAKSHI GANGADHAR	AB	MSG	MSG	MSG	MSG	MSG	MSG	MSG
54	SANKPAL RUTUJA NARAYAN	SPN	SPN	SPN	SPN	SPN	SPN	SPN	SPN
55	KHALATE ABHISHEK AUDUMBAR	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate	AB	AB
56	GHORPADE SHRIKANT SHANTARAM	SSG	SSG	SSG	AB	SSG	SSG	SSG	SSG
57	NIKAM SAURABH RAMDAS	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam
58	SHINDE RUTUJA GULABSING	RShinde	AB	RShinde	RShinde	RShinde	RShinde	RShinde	RShinde
59	MOHITE ANIKET DILIP	MOHITE	MOHITE	MOHITE	MOHITE	MOHITE	MOHITE	AB	MOHITE
60	GAIKWAD NIKITA SANJAY	CS	CS	CS	CS	CS	CS	CS	CS

Prasanna  
(Teacher-in-charge)



Somant  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

Prasanna  
I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara



Sr. No.	Name	19/3/22	19/3/22	25/3/22	26/3/22	1/5/22	8/5/22	9/5/22	16/5/22
24	MANE JYOTI RAJENDRA	MJR	MJR	MJR	MJR	MJR	MJR	MJR	MJR
25	MAHADIK MAYURI BALA	MBMahadik	MBMahadik	MBMahadik	MBMahadik	MBMahadik	MBMahadik	MBMahadik	MBMahadik
26	BHILARE AMIT SHANTARAM	Ashilare	Ashilare	Ashilare	AB	Ashilare	Ashilare	Ashilare	Ashilare
27	JAGTAP ASHISH RAMESH	Jagtap AR	Jagtap AR	Jagtap AR	Jagtap AR	Jagtap AR	Jagtap AR	Jagtap AR	Jagtap AR
28	PATNE SANKET GULAB	Patne	Patne	Patne	Patne	Patne	Patne	Patne	Patne
29	ANKITA MAHADEV DHANAWDE	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade
30	OMFULE PRATIK RAJENDRA	Sstisat	Sstisat	Sstisat	Sstisat	Sstisat	Sstisat	Sstisat	Sstisat
31	KAKADE SANGRAM DATTATRAY	AB	SKakade	SKakade	SKakade	SKakade	SKakade	SKakade	SKakade
32	SHINDE ADITYA BALAWANT	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS
33	SUPRIYA BHAGWAN CHAUDHARI	Chudh	Chudh	Chudh	Chudh	Chudh	Chudh	Chudh	Chudh
34	PUJARI KIRTI CHENNA	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu
35	NEVARE DISHA SUDHIR	N.D.S	N.D.S	N.D.S	AB	N.D.S	N.D.S	N.D.S	N.D.S
36	BHOSALE SIDDHANTI DATTATRAY	BSD	BSD	BSD	BSD	BSD	BSD	BSD	BSD
37	THORAVE PRAJAKTA SATISH	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate
38	WAGH OMKAR AJIT	AB	OW	OW	OW	OW	OW	OW	AB
39	PANSE ASHUTOSH VINOD	AP	AP	AP	AP	AP	AP	AP	AP
40	MAHANGADE PRITAM SANJAY.	Bmahagade	Bmahagade	Bmahagade	Bmahagade	AB	Bmahagade	Bmahagade	Bmahagade
41	SHINDE PRAVIN RAMESH.	Sinde	Sinde	Sinde	Sinde	Sinde	Sinde	Sinde	Sinde
42	NIKITA SURESH MANDHARE	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare	NMandhare
43	JADHAV UTTARA VILAS	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav
44	CHAVAN SUKANYA VASANT	Chv	Chv	Chv	Chv	Chv	Chv	Chv	Chv
45	SAHL SHIVAJI MANDHARE	SSM	AB	SSM	SSM	SSM	SSM	SSM	SSM
46	CHIKANE SIDDHI RAMESH	SRChikane	SRChikane	SRChikane	SRChikane	SRChikane	AB	SRChikane	SRChikane
47	CHIKANE RIDDHI RAMESH	Chv	Chv	Chv	Chv	Chv	Chv	Chv	Chv
48	DIVYA DEEPAK BAVALEKAR	D'D'B	D'D'B	D'D'B	D'D'B	D'D'B	D'D'B	D'D'B	D'D'B
49	BHOSALE SHIVAM SHAILESH	S.S.B.	S.S.B.	S.S.B.	AB	S.S.B.	S.S.B.	S.S.B.	S.S.B.
50	SAWANT RUSHIKESH RAJENDRA	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR
51	JAIGUDE NISHANT PRAKASH	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	Jaigude	AB
52	GAIKWAD PRASAD RAVINDRA	Pindel	Pindel	Pindel	Pindel	Pindel	Pindel	Pindel	Pindel



Sr. No.	Name	19/3/22	19/3/22	25/3/22	20/3/22	1/5/22	3/5/22	9/5/22	16/5/22
53	MANE SAKSHI GANGADHAR	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG
54	SANKPAL RUTUJA NARAYAN	SPR	SPR	SPR	SPR	SPR	SPR	SPR	AB
55	KHALATE ABHISHEK AUDUMBAR	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate
56	GHORPADE SHRIKANT SHANTARAM	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR
57	NIKAM SAURABH RAMDAS	S.R. Nikam	AB	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam	S.R. Nikam
58	SHINDE RUTUJA GULABSING	RShinde	RShinde	RShinde	RShinde	RShinde	RShinde	RShinde	RShinde
59	MOHITE ANIKET DILIP	MOHITE	MOHITE	MOHITE	MOHITE	AB	MOHITE	MOHITE	MOHITE
60	GAIKWAD NIKITA SANJAY	AB	GS	GS	GS	GS	GS	GS	GS

Deant.  
(Teacher-In-charge)



Form  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

Deant.  
I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

George - Jay - Charles  
(Group)

MEMORANDUM FOR THE RECORD  
SUBJECT: [Illegible]

DATE: [Illegible]

TO: [Illegible]

FROM: [Illegible]

RE: [Illegible]

[Illegible handwritten notes follow]



1964-1965  
KIAHU/VECT/MASSACHUSETTS  
50851A - 16W

JAY - CHARLES  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
WASHINGTON, D.C. 20546

Janata Shikshan Sanstha's  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF MATHEMATICS  
Certificate Course in Python  
2021-22



ATTENDANCE (THEORY & PRACTICAL)

Sr. No.	Name	18/12/21	24/12/21	31/12/21	1/1/22	7/1/22	8/1/22	11/31/22	14/31/22
1	PETKAR DIVYA SANTOSH	<del>Dehk</del>	<del>Dehk</del>	<del>Dehk</del>	AB	<del>Dehk</del>	<del>Dehk</del>	<del>Dehk</del>	<del>Dehk</del>
2	CHORAGE PRAJAKTA PRAKASH	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>	<del>Pchorage</del>
3	DHANAWADE SHRADDHA SANTOSH	<del>S</del>	AB	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>
4	BHOSALE KAIVALYA SANTOSH	<del>KSB</del>	<del>KSB</del>	<del>KSB</del>	<del>KSB</del>	<del>KSB</del>	AB	AB	<del>KSB</del>
5	BHOSALE RUTUJA DHANAJI	AB	AB	AB	AB	AB	AB	AB	AB
6	ITHAPE VEDIKA PRAMOD	Ithape V.P	Ithape V.P	AB	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P	Ithape V.P
7	DHEKANE PRANAY JANARDHAN	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>	<del>Ynay</del>
8	PATHAN RUMIJA AMJAD	R.A.Pathan	R.A.Pathan	R.A.Pathan	AB	R.A.Pathan	R.A.Pathan	R.A.Pathan	R.A.Pathan
9	BHOSALE YASH ANANDRAO	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>
10	JEDHE KIRAN DIPAK	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>	<del>Jedhe</del>
11	DESHMUKH DINESH SUDESH	<del>Deshmukh</del>	<del>Deshmukh</del>	<del>Deshmukh</del>	<del>Deshmukh</del>	<del>Deshmukh</del>	AB	<del>Deshmukh</del>	<del>Deshmukh</del>
12	YADAV ANIKET ROHIDAS	<del>YR</del>	<del>YR</del>	<del>YR</del>	<del>YR</del>	<del>YR</del>	<del>YR</del>	<del>YR</del>	<del>YR</del>
13	BIRAJDAR RUDRA RAGHUNATH	<del>Birajdar</del>	<del>Birajdar</del>	<del>Birajdar</del>	<del>Birajdar</del>	<del>Birajdar</del>	<del>Birajdar</del>	AB	<del>Birajdar</del>
14	PAWAR ARYAN AVINASH	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	<del>Aean</del>	AB	<del>Aean</del>	<del>Aean</del>
15	DAGADE DHIRAJ DATTATRAY	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>	<del>Dn</del>
16	JADHAV LAXMAN KALYAN	<del>Laxman</del>	<del>Laxman</del>	AB	<del>Laxman</del>	<del>Laxman</del>	<del>Laxman</del>	<del>Laxman</del>	<del>Laxman</del>
17	SALUNKHE SHRUTI ANNA	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>	<del>S.S.A</del>
18	ADITYA SHASHIKANT JAYKAR	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>	<del>Asaykar</del>
19	JORKAR NIKHIL ANNA	<del>Norkar</del>	<del>Norkar</del>	<del>Norkar</del>	<del>Norkar</del>	AB	<del>Norkar</del>	<del>Norkar</del>	<del>Norkar</del>
20	CHAVAN ASHITOSH PRALHAD	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>	<del>A.P.chavan</del>
21	JADHAV PRANAV RAVINDRA	<del>JR</del>	<del>JR</del>	<del>JR</del>	<del>JR</del>	<del>JR</del>	<del>JR</del>	<del>JR</del>	<del>JR</del>
22	NANAWARE TANAYA RAJENDRA	AB	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>	<del>TR.N.</del>
23	PISAL SAI KRUSHNA	<del>Spisal</del>	<del>Spisal</del>	<del>Spisal</del>	<del>Spisal</del>	<del>Spisal</del>	AB	<del>Spisal</del>	AB



Sr. No.	Name	19/12/21	23/12/21	21/12/21	1/1/22	7/1/22	9/1/22	11/3/22	12/3/22
24	MANE JYOTI RAJENDRA	MJR	MJR	MJR	MJR	MJR	MJR	MJR	MJR
25	MAHADIK MAYURI BALA	<del>MJM</del> Mahadik	<del>MJM</del> Mahadik	AB	<del>MJM</del> Mahadik	<del>MJM</del> Mahadik	<del>MJM</del> Mahadik	<del>MJM</del> Mahadik	<del>MJM</del> Mahadik
26	BHILARE AMIT SHANTARAM	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>	<del>Ashilare</del>
27	JAGTAP ASHISH RAMESH	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>	<del>Jatop A.P.</del>
28	PATNE SANKET GULAB	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>
29	ANKITA MAHADEV DHANAWDE	AB	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade	Dhanawade
30	OMBALE PRATIK RAJENDRA	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>	<del>Spatne</del>
31	KAKADE SANGRAM DATTATRAY	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade	Skakade
32	SHINDE ADITYA BALAWANT	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>	<del>ABS</del>
33	SUPEYA BHAGWAN CHAUDHARI	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>	<del>Chur</del>
34	PUJARI KIRTI CHENNA	<del>Pu</del>	<del>Pu</del>	<del>Pu</del>	AB	<del>Pu</del>	<del>Pu</del>	<del>Pu</del>	<del>Pu</del>
35	NEVARE DISHA SUDHIR	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S	N.D.S
36	BHOSALE SIDDHANTI DATTATRAY	BSD	BSD	BSD	BSD	BSD	BSD	BSD	BSD
37	THORAVE PRAJAKTA SATISH	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate	Spthroate
38	WAGH OMKAR AJIT	<del>AW</del>	<del>AW</del>	<del>AW</del>	<del>AW</del>	<del>AW</del>	<del>AW</del>	<del>AW</del>	AB
39	PANSE ASHUTOSH VINOD	<del>AP</del>	<del>AP</del>	<del>AP</del>	<del>AP</del>	<del>AP</del>	AB	<del>AP</del>	<del>AP</del>
40	MAHANGADE PRITAM SANJAY.	<del>Bmahangad</del>	<del>Bmahangad</del>	<del>Bmahangad</del>	<del>Bmahangad</del>	<del>Bmahangad</del>	AB	<del>Bmahangad</del>	<del>Bmahangad</del>
41	SHINDE PRAVIN RAMESH.	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>
42	NIKITA SURESH MANDHARE	NSMandhare	NSMandhare	NSMandhare	NSMandhare	NSMandhare	NSMandhare	NSMandhare	NSMandhare
43	JADHAV UTTARA VILAS	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav	U.V.Jadhav
44	CHAVAN SUKANYA VASANT	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>	<del>Chav</del>
45	SAHIL SHIVAJI MANDHARE	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>	<del>SGM</del>
46	CHIKANE SIDDHI RAMESH	SRChikan	SRChikan	SRChikan	SRChikan	AB	SRChikan	SRChikan	SRChikan
47	CHIKANE RIDDHI RAMESH	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>	<del>Cee</del>
48	DIVYA DEEPAK BAVALEKAR	D.D.B	D.D.B	D.D.B	D.D.B	D.D.B	D.D.B	D.D.B	D.D.B
49	BHOSALE SHIVAM SHAILESH	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.	S.S.B.
50	SAWANT RUSHIKESH RAJENDRA	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>	<del>SRR</del>
51	JAIGUDE NISHANT PRAKASH	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>	<del>Jaigude</del>
52	GAIKWAD PRASAD RAVINDRA	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>	<del>Pruel</del>



Sr. No.	Name	19/12/22	29/12/22	31/12/22	1/1/23	7/1/23	8/1/23	11/3/23	12/3/23
53	MANE SAKSHI GANGADHAR	AB	MSG	MSG	MSG	MSG	MSG	MSG	MSG
54	SANKPAL RUTUJA NARAYAN	SPN	SPN	AB	SPN	SPN	SPN	SPN	SPN
55	KHALATE ABHISHEK AUDUMBAR	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate	Khalate
56	GHORPADE SHRIKANT SHANTARAM	JSP	JSP	JSP	JSP	JSP	JSP	AB	JSP
57	NIKAM SAURABH RAMDAS	S.R.Nikam	S.R.Nikam	S.R.Nikam	S.R.Nikam	S.R.Nikam	S.R.Nikam	S.R.Nikam	S.R.Nikam
58	SHINDE RUTUJA GULABSING	RShinde	RShinde	RShinde	RShinde	AB	RShinde	RShinde	RShinde
59	MOHITE ANIKET DILIP	MOHITE	AB	MOHITE	MOHITE	MOHITE	MOHITE	MOHITE	MOHITE
60	GAIKWAD NIKITA SANJAY	AB	GA	GA	GA	GA	GA	GA	AB

Qambar  
(Teacher - In-charge)



Sonni  
Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

Sarab  
I/C PRINCIPAL  
KISAN VEER MAHAVIYALAYA  
Tal. Wai, Dist. Satara



## Notice

All the students of B.Sc. are hereby informed that their final Examination of “**Certificate Course in Python**” will be held on Wednesday, 8<sup>th</sup> June, 2022 at 11:00 am to 2:00 pm. The students who will remain absent for the examination and the students who will be failed in the examination, will not be able to get Certificate of the Course.



*Sonni*

Course Co-ordinator

Head  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wet - 412803

**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**CERTIFICATE COURSE IN PYTHON EXAMINATION 2021-22**

**Day and Date:** - Wednesday, 08-06-2022

**Total Marks:-50**

**Time:** - 11:00 A.M. Onwards

---

Instructions: 1) All questions are compulsory  
2) Figures to the right indicate full marks.  
3) Distribution of marks; **Practical Work (40) + Viva Voce (10).**

- Q.1 A) Write a code 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 Modified method**. (10)
- B) Run the **Euler's Modified method** program to solve  $\frac{dy}{dx} = xy$  and  $y(0)=1$ , take  $h=0.1$  and find the value of  $y$  at  $x=1$ . (05)
- OR
- Q.1 (A) Write a code in python to solve a system of Linear equations  $AX=B$  by **LU-factorization method**. (10)
- (B) Run the **LU-factorization method**. program to solve the following system of equations  $x + y + z = 1$ ,  $3x + y - 3z = 5$ ,  $x - 2y - 5z = 10$  (05)
- Q.2 (A) Write a code in python to find the numerical solution of the differential equation  $\frac{dy}{dx} = f(x, y)$  with initial condition  $y = y_0$  when  $x=x_0$ , using **fourth order Runge-Kutta method**. (10)
- B) Run the fourth order Runge -Kutta method program to solve  $\frac{dy}{dx} = x^2y$  and  $y(0)=1$ , taking  $h=0.1$  and find the value of  $y$  at  $x=1$ . (05)
- OR
- Q.2 A) Write a code in python to find one of the approximate root of function  $f(x)$  using **Newton Raphson method**. (10)
- B) Run the **Newton Raphson method**.program to find one of the approximate root of  $f(x) = x^5 + 3x - 10$ . (05)
- Q.3 Solve any **TWO** of the following problems by using python. (10)
- (a) Construct the list of 23,24,43,23,12,31,45,54,56,79,40 and append this by 20,30,40
- (b) Find the value of  $\sin(30^\circ)$
- (c) Sort the given list in descending order: 92,34,65,88,21,23.
- (d) For given two sets  $A = \{1,2,5\}$  and  $B = \{5,7,8\}$  find set difference and symmetric difference.

Janata Shikshan Sanstha's

# Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

Examination: Certificate Course in Python (2021-22)  
Attendance

SR. NO.	NAME	Sign
1	PETKAR DIVYA SANTOSH	
2	CHORAGE PRAJAKTA PRAKASH	
3	DHANAWADE SHRADDHA SANTOSH	
4	BHOSALE KAIVALYA SANTOSH	
5	BHOSALE RUTUJA DHANAJI	AB
6	ITHAPE VEDIKA PRAMOD	Ithape u.p.
7	DHEKANE PRANAY JANARDHAN	Pranay
8	PATHAN RUMIJA AMJAD	R.A. Pathan
9	BHOSALE YASH ANANDRAO	Y
10	JEDHE KIRAN DIPAK	Jedhe
11	DESHMUKH DINESH SUDESH	Deshmukh
12	YADAV ANIKET ROHIDAS	YR
13	BIRAJDAR RUDRA RAGHUNATH	Birajdar
14	PAWAR ARYAN AVINASH	Aryan
15	DAGADE DHIRAJ DATTATRAY	Dh
16	JADHAV LAXMAN KALYAN	Laxman
17	SALUNKHE SHRUTI ANNA	S.S.A.
18	ADITYA SHASHIKANT JAYKAR	Ajaykar
19	JORKAR NIKHIL ANNA	Jorkar
20	CHAVAN ASHITOSH PRALHAD	A.P. Chavan
21	JADHAV PRANAV RAVINDRA	JR
22	NANAWARE TANAYA RAJENDRA	T.R.N.
23	PISAL SAI KRUSHNA	Saisai
24	MANE JYOTI RAJENDRA	MJR
25	MAHADIK MAYURI BALA	MB Mahadik
26	BHILARE AMIT SHANTARAM	Ashilare
27	JAGTAP ASHISH RAMESH	JAGTAP A. R.
28	PATNE SANKET GULAB	Patne
29	ANKITA MAHADEV DHANAWDE	Ahanawade
30	OMBALE PRATIK RAJENDRA	Omble
31	KAKADE SANGRAM DATTATRAY	S.Kakade
32	SHINDE ADITYA BALAWANT	AS
33	SUPRIYA BHAGWAN CHAUDHARI	Supriya
34	PUJARI KIRTI CHENNA	Pu
35	NEVARE DISHA SUDHIR	N.D.S
36	BHOSALE SIDDHANTI DATTATRAY	BSD
37	THORAVE PRAJAKTA SATISH	Thorave
38	WAGH OMKAR AJIT	W
39	PANSE ASHUTOSH VINOD	AP
40	MAHANGADE PRITAM SANJAY.	Mahangade
41	SHINDE PRAVIN RAMESH.	Shinde
42	NIKITA SURESH MANDHARE	NS Mandhare



SR. NO.	NAME	Sign
43	JADHAV UTTARA VILAS	J. V. Jadhav
44	CHAVAN SUKANYA VASANT	MM
45	SAHIL SHIVAJI MANDHARE	SM
46	CHIKANE SIDDHI RAMESH	Chikane
47	CHIKANE RIDDHI RAMESH	Cee
48	DIVYA DEEPAK BAVALEKAR	D.P.B
49	BHOSALE SHIVAM SHAILESH	S.S.B.
50	SAWANT RUSHIKESH RAJENDRA	RR
51	JAIGUDE NISHANT PRAKASH	Jaigude
52	GAIKWAD PRASAD RAVINDRA	Prasad
53	MANE SAKSHI GANGADHAR	Mane
54	SANKPAL RUTUJA NARAYAN	SKP
55	KHALATE ABHISHEK AUDUMBAR	Khalate. A.
56	GHORPADE SHRIKANT SHANTARAM	Shrikant
57	NIKAM SAURABH RAMDAS	S.R. Nikam
58	SHINDE RUTUJA GULABSING	R.Shinde
59	MOHITE ANIKET DILIP	MOHITE
60	GAIKWAD NIKITA SANJAY	GN



*Jomto*  
Co-ordinator  
Head

Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803

*E. K. Kulkarni*

I/C PRINCIPAL  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

Janata Shikshan Sanstha's  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF MATHEMATICS  
Certificate Course in Python  
2021-22  
MARKSHEET



Sr. No.	Name	Practical Work (40)	Viva Voce (10)	Total (50)
1	PETKAR DIVYA SANTOSH	36	08	44
2	CHORAGE PRAJAKTA PRAKASH	40	08	48
3	DHANAWADE SHRADDHA SANTOSH	38	07	45
4	BHOSALE KAIVALYA SANTOSH	30	06	36
5	BHOSALE RUTUJA DHANAJI	AB	AB	AB
6	ITHAPE VEDIKA PRAMOD	37	07	40
7	DHEKANE PRANAY JANARDHAN	34	09	43
8	PATHAN RUMIJA AMJAD	36	06	42
9	BHOSALE YASH ANANDRAO	30	08	38
10	JEDHE KIRAN DIPAK	39	05	44
11	DESHMUKH DINESH SUDESH	40	05	45
12	YADAV ANIKET ROHIDAS	39	08	47
13	BIRAJDAR RUDRA RAGHUNATH	39	07	46
14	PAWAR ARYAN AVINASH	28	09	37
15	DAGADE DHIRAJ DATTATRAY	38	08	46
16	JADHAV LAXMAN KALYAN	35	07	42
17	SALUNKHE SHRUTI ANNA	38	06	44
18	ADITYA SHASHIKANT JAYKAR	30	08	38
19	JORKAR NIKHIL ANNA	31	05	36
20	CHAVAN ASHITOSH PRALHAD	35	05	40
21	JADHAV PRANAV RAVINDRA	35	06	41
22	NANAWARE TANAYA RAJENDRA	36	07	43
23	PISAL SAI KRUSHNA	34	09	43
24	MANE JYOTI RAJENDRA	36	05	41
25	MAHADIK MAYURI BALA	35	05	40
26	BHILARE AMIT SHANTARAM	40	06	46
27	JAGTAP ASHISH RAMESH	34	05	39
28	PATNE SANKET GULAB	37	06	40
29	ANKITA MAHADEV DHANAWDE	39	07	46
30	OMBALE PRATIK RAJENDRA	35	08	43
31	KAKADE SANGRAM DATTATRAY	39	08	47

Sr. No.	Name	Practical Work (40)	Viva Voce (10)	Total (50)
32	SHINDE ADITYA BALAWANT	35	05	40
33	SUPRIYA BHAGWAN CHAUDHARI	30	08	38
34	PUJARI KIRTI CHENNA	39	05	44
35	NEVARE DISHA SUDHIR	40	06	46
36	BHOSALE SIDDHANTI DATTATRAY	38	07	45
37	THORAVE PRAJAKTA SATISH	37	05	42
38	WAGH OMKAR AJIT	38	05	43
39	PANSE ASHUTOSH VINOD	33	06	39
40	MAHANGADE PRITAM SANJAY.	31	07	38
41	SHINDE PRAVIN RAMESH.	39	05	44
42	NIKITA SURESH MANDHARE	40	08	48
43	JADHAV UTTARA VILAS	36	08	44
44	CHAVAN SUKANYA VASANT	35	07	42
45	SAHIL SHIVAJI MANDHARE	40	05	45
46	CHIKANE SIDDHI RAMESH	40	08	48
47	CHIKANE RIDDHI RAMESH	40	06	46
48	DIVYA DEEPAK BAVALEKAR	40	04	44
49	BHOSALE SHIVAM SHAILESH	36	05	41
50	SAWANT RUSHIKESH RAJENDRA	39	08	47
51	JAIGUDE NISHANT PRAKASH	34	08	42
52	GAIKWAD PRASAD RAVINDRA	33	07	40
53	MANE SAKSHI GANGADHAR	33	07	40
54	SANKPAL RUTUJA NARAYAN	34	08	42
55	KHALATE ABHISHEK AUDUMBAR	34	07	41
56	GHORPADE SHRIKANT SHANTARAM	34	06	40
57	NIKAM SAURABH RAMDAS	40	05	46
58	SHINDE RUTUJA GULABSING	36	05	41
59	MOHITE ANIKET DILIP	37	05	42
60	GAIKWAD NIKITA SANJAY	37	07	44

*Q. Ramt*  
(Teacher - In-charge)

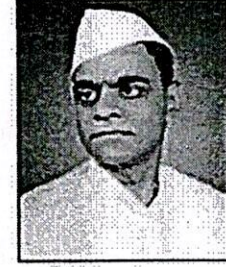


*E. Ralekar*  
**I/C PRINCIPAL**  
KISAN VEER MAHAVIDYALAYA  
Tal. Wai, Dist. Satara

*S. Ramt*  
(Dr. S. R. Tate)  
(Course Co-ordinator)  
**Head**  
Department of Mathematics  
Kisan Veer Mahavidyalaya  
Wai - 412803



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



This is to certify that **Miss. Dhanawade Shraddha Santosh** studying in B. Sc. III  
(Mathematics) has completed successfully **Certificate Course in Python** conducted by the  
Department of Mathematics, Kisan Veer Mahavidyalaya, Wai during the Academic year 2021-22  
and obtained Grade "A".

Date: 08/06/2022

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

Principal  
Kisan Veer Mahavidyalaya, Wai

