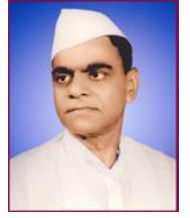




Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI



**Certificate Course in Python for Numerical
Computations**

**Supportive Documents for
Certificate Course Annual Report**

Certificate Course Annual Report includes-

- 1. Short Report of the Particular Academic Year**
- 2. Certificate Course Brochure/Handbook**
- 3. Notice regarding the Introduction date of the course & BOS**
- 4. Syllabus of the Course Objectives and Outcomes**
- 5. List of enrolled students**
- 6. Attendance Sheets**
- 7. Result of the Course**
- 8. One Sample Certificate of the pass student**
- 9. Geo-tagged Photos (If Available).**



Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI
Department of Mathematics



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

“Certificate Course in Python for Numerical Computations”

Course Report: 2023-24

The Department of Mathematics has introduced the Certificate Course “Certificate Course in Python for Numerical Computations” from the academic year 2023-2024. The Certificate Course in Python for Numerical Computations was structured to provide participants with a basic foundation in Python programming language and its application in numerical computing. The course for the academic year 2023-24 was started on 7th August 2023. The timetable was displayed on the department's notice board. Total 22 students were enrolled and successfully completed this course. Regular lectures and practicals were conducted according to the timetable. The examination of the said course was conducted and certificates were issued to all the passed students. 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

2. Certificate Course Brochure/Handbook

Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS

Course Description:

This course introduces students to numerical computation techniques using Python programming language, with a focus on methods like the Bisection Method, Newton-Raphson Method, Euler's Method and Runge-Kutta Methods. and numerical solutions of systems of linear algebraic equations. Participants will learn how to implement these algorithms to solve mathematical problems efficiently.

Course Duration: 30 hours

Fees: Rs.500/-

Course Objectives:

- To understand the fundamentals of the Python programming language.
- To get familiar with basic numerical computing concepts and methods.
- To develop the ability to write the Python program for the problem related their subjects using Numerical Methods.
- Student should be able to solve mathematical problems using Python language.

Course Outline:

- Introduction to Python
- Expression and operators
- Conditional Statements, Looping Statements and Control statements
- Functions
- Modules and packages in Python
- Data visualization in Python
- Numerical Solutions of Systems of linear algebraic equations
- Roots of Equation
- Numerical Methods for The Solution of Ordinary Differential Equations

Specific Equipment's: Python Software, LCD, Projector, Computer.

Course Outcomes:

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

- Explain basic principles of Python programming language
- Develop logical thinking
- Write programs in Python
- Enhance problem-solving skills through numerical analysis.
- Develop skills in implementing numerical algorithms efficiently

Scheme of Examination: The examination Shall be conducted at the end of Course.

The paper shall carry 50 (Coding + Practical) marks.

Percentage of passing: - 35%



3. Notice regarding the Introduction date of the course & BOS

Department of Mathematics

Kisan Veer Mahavidyalaya, Wai

Date: 04/08/2023

Notice

All B.Sc. (Mathematics) students are hereby informed that our department will be conducting a “**Certificate Course in Python for Numerical Computations**”. The course is scheduled to commence on 07/08/2023. The duration of the course is 30 hours, and the fee is 500/-.Interested students should enroll their names with Lab Assistant Shri Thombare Navnath in the Department of Mathematics.






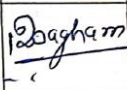
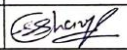
Some
Head
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803

**Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI**

Department of Mathematics

Notice

The Meeting of the **Board of Studies of Mathematics** will be held on **Monday 15th May 2023** at **11.45 am** in the Department of Mathematics. The meeting will be chaired by **Dr. S. R. Tate, Head**, Department of Mathematics, Kisan Veer Mahavidyalaya, Wai. All the Members are advised to attend the meeting.

Sr. No.	Name	Designation	Position	Signature
1.	Dr. Shivaji Ramchandra Tate	Head Department of Mathematics Kisan Veer Mahavidyalaya, Wai	Chairperson	
2.	Mrs. Vasanti Abhijeet Sawant	Assistant Professor Department of Mathematics Kisan Veer Mahavidyalaya, Wai	Member	
3.	Mr. Sangram Suresh Nalavade	Head Department of Mathematics Yashwantrao Chavan Institute of Science, Satara (Autonomous)	Member	
4.	Dr. Rahul Popatrao Waghmare	Head Department of Computer Science (Entire) Yashwantrao Chavan Institute of Science, Satara (Autonomous)	Member	
5.	Miss. Sneha Gharge	Solution Architect, QHills Technology Pvt. Ltd., Satara.	Member	

Agenda:

1. To recommend to the College Development Committee through the Principal the introduction of new Certificate Course/s
2. To recommend to the College Development Committee through the Principal the discontinuation of earlier Certificate Course
3. To recommend to the Principal the course syllabi, course structure & evaluation scheme of new Certificate Course
4. To recommend the reference books and other study material to be used for the study of the Course/s
5. Any other subject with the Permission of the Chair

Copy: 1. For signatures of all Members
2. Dr. S. R. Tate

Date: 12th May 2023



4. Syllabus and Objectives of the Course and Outcomes

Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

Department of Mathematics

CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS

SYLLABUS

- **Introduction to Python:**
Python Identifiers and Keywords, data types, simple mathematical operation, Indentation and Comments. Input and Output, First Python program
- **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.
- **Conditional Statements, Looping Statements and Control statements:**
if-else, nested if-else, if-elif-else, try-except block.
Looping Statements: for loop, while loop, Nested loops, Control Statements: break, continue and pass.
- **Functions:**
Built-in functions, User-defined functions, Arguments, recursive function, Python Anonymous/Lambda Function, Global, Local and Nonlocal variables and return statement.
- **Modules and packages in Python:**
Modules, import, import with renaming, from-import statement, math module, cmath module, random module, packages.
- **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.
- **Numerical Solutions of Systems of linear algebraic equations:** Gauss Elimination Method, LU Decomposition Methods
- **Roots of Equations:** Bisection, Newton-Raphson Method
- **Numerical Methods for The Solution of Ordinary Differential Equations:** Euler's Method, Runge-Kutta Methods.

Recommended Book:

1. Jaan Kiussalaas, Numerical Methods in Engineering with Python3, Cambridge University Press.
2. Amit Saha, Doing Math with Python, No Starch Press, 2015.
3. Yashwant Kanetkar and Aditya Kanetkar, Let Us Python, BPB Publication, 2019

Course Objectives:

- To understand the fundamentals of the Python programming language.
- To get familiar with basic numerical computing concepts and methods.
- To develop the ability to write the Python program for the problem related their subjects using Numerical Methods.
- Student should be able to solve mathematical problems using Python language.

Course Outcomes:

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


- Explain basic principles of Python programming language
- Develop logical thinking
- Write programs in Python
- Enhance problem-solving skills through numerical analysis.
- Develop skills in implementing numerical algorithms efficiently



5. List of enrolled students

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Mathematics
CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
STUDENT LIST (2023-24)

Class: B.Sc. III		
Sr. No.	Roll No	Name
1	59	KUMBHAR ANKITA ROHIDAS
2	69	YADAV PRATIK DATTATRAY
3	86	AWALE RUTUJA SANDESH
4	89	CHAVAN SNEHAL JAYWANT
5	93	PAWAR SAURABH SHIVAJI
6	94	CHIKANE SAISH SANTOSH
7	95	NIMBALKAR VISHAL MUKINDA
8	100	GAIKWAD AISHWARYA SURYAKANT
9	103	CHAVAN SHIVAM VIJAY
10	104	KAMATE RAJESHWARI SHIVAJI
Class: B.Sc.II		
11	18	CHAVAN ANURADHA KRUSHNAT
12	19	MAHAMUNI SONAL JITENDRA
13	20	JADHAV SAKSHI SACHIN
14	21	YADAV SANIKA BHANUDAS
15	22	JAGTAP ISHWARI JEETANDRA
16	31	BHOSALE VEDANT SURESH
17	33	SHELAR TEJAS SUDHIR
18	40	SHINDE TANISHKA SANJAY
19	41	DHAMAL HARSHADA AVINASH
20	42	MORE SANCHITA VIKAS
21	44	WADKAR PRANAV AJIT
22	47	SHINDE ABHAY DHANANJAY


Course Coordinator
Department of Mathematics

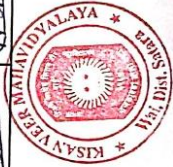



Principal
Kisan Veer Mahavidyalaya, Wai

6. Attendance Sheets:

Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI
 DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
 ATTENDANCE (2023-24)

Sr. No.	Roll No.	Name	Month:										
			7/8/23	8/8/23	14/8/23	21/8/23	27/8/23	28/8/23	29/8/23	31/9/23			
1	59	KUMBHAR ANKITA ROHIDAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	69	YADAV PRATIK DATTATRAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	86	AWALE RUTUJA SANDESH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	89	CHAVAN SNEHAL JAYWANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	93	PAWAR SAURABH SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	94	CHIKANE SAISH SANTOSH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	95	NIMBALKAR VISHAL MUKINDA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	100	GAIKWAD AISHWARYA SURYAKANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	103	CHAVAN SHIVAM VIJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	104	KAMATE RAJESHWARI SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
Class: B.Sc.II													
11	18	CHAVAN ANURADHA KRUSHNAT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	19	MAHAMUNI SONAL JITENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
13	20	JADHAV SAKSHI SACHIN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	21	YADAV SANIKA BHANUDAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15	22	JAGTAP ISHWARI JEETENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
16	31	BHOSALE VEDANT SURESH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
17	33	SHEKAR TEJAS SUDHIR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
18	40	SHINDE TANISHKA SANJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
19	41	DHAMAL HARSHADA AYTINASH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
20	42	MORE SANCHITA VIKAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
21	44	WADKAR PRANAV AJIT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
22	47	SHINDE ABHAY DHANANJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB



Head
 Department of Mathematics
 Kisan Veer Mahavidyalaya
 Wai - 412803

Janata Shikshan Sansstha's
KISAN VEER MAHAVIDYALAYA, WAI
DEPARTMENT OF MATHEMATICS
CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
ATTENDANCE (2023-24)

Sr. No.		Name	Month:							
Sr. No.		Name	5/9/2023	11/9/2023	18/9/2023	25/9/2023	26/9/2023	3/10/2023	9/10/2023	10/10/2023
1	59	KUMBHAR ANKITA ROHIDAS	AB	AB	AB	AB	AB	AB	AB	AB
2	69	YADAV PRATIK DATTATRAY	AB	AB	AB	AB	AB	AB	AB	AB
3	86	AWALE RUTUJA SANDESH	AB	AB	AB	AB	AB	AB	AB	AB
4	89	CHAVAN SNEHAL JAYWANT	AB	AB	AB	AB	AB	AB	AB	AB
5	93	PAWAR SAURABH SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB
6	94	CHIKANE SAISH SANTOSH	AB	AB	AB	AB	AB	AB	AB	AB
7	95	NIMBALKAR VISHAL MUKINDA	AB	AB	AB	AB	AB	AB	AB	AB
8	100	GAIKWAD AISHWARYA SURYAKRANT	AB	AB	AB	AB	AB	AB	AB	AB
9	103	CHAVAN SHIVAM VIJAY	AB	AB	AB	AB	AB	AB	AB	AB
10	104	KAMATE RAJESHWARI SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB
Class: B.Sc.II										
11	18	CHAVAN ANURADHA KRUSHNAT	AB	AB	AB	AB	AB	AB	AB	AB
12	19	MAHAMUNI SONAL JITENDRA	AB	AB	AB	AB	AB	AB	AB	AB
13	20	JADHAV SAKSHI SACHIN	AB	AB	AB	AB	AB	AB	AB	AB
14	21	YADAV SANIKA BHANUDAS	AB	AB	AB	AB	AB	AB	AB	AB
15	22	JAGTAP ISHWARI JEETENDRA	AB	AB	AB	AB	AB	AB	AB	AB
16	31	BHOSALE VEDANT SURESH	AB	AB	AB	AB	AB	AB	AB	AB
17	33	SHELAR TEJAS SUDHIR	AB	AB	AB	AB	AB	AB	AB	AB
18	40	SHINDE TANISHKA SANJAY	AB	AB	AB	AB	AB	AB	AB	AB
19	41	DHAMAL HARSHADA AVINASH	AB	AB	AB	AB	AB	AB	AB	AB
20	42	MORE SANCHITA VIKAS	AB	AB	AB	AB	AB	AB	AB	AB
21	44	WADKAR PRANAV AJIT	AB	AB	AB	AB	AB	AB	AB	AB
22	47	SHINDE ABHAY DHANANJAY	AB	AB	AB	AB	AB	AB	AB	AB



Head
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai. - 412803

Janata Shikshan Samstha's
KISAN VEER MAHAVIDYALAYA, WAI
 DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
 ATTENDANCE (2023-24)

Sr. No.	Roll No.	Name	Month:									
			16/10/23	17/10/2023	08/11/2023	7/11/2023	11/12/2023	12/12/2023	19/12/2023	19/12/2023		
1	59	KUMBHAR ANKITA ROHIDAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	69	YADAV PRATIK DATTATRAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	86	AWALE RUTUJA SANDESH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	89	CHAVAN SNEHAL JAYWANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	93	PAWAR SAURABH SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	94	CHIKANE SAISH SANTOSH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	95	NIMBALKAR VISHAL MUKINDA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	100	GAIKWAD AISHWARYA SURYAKANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	103	CHAVAN SHIVAM VIJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	104	KAMATE RAJESHWARI SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
Class: B.Sc.II												
11	18	CHAVAN ANURADHA KRUSHNAT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	19	MAHAMUNI SONAL JITENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
13	20	JADHAV SAKSHI SACHIN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	21	YADAV SANTIKA BHANUDAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15	22	JAGTAP ISHWARI JEETENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
16	31	BHOSALE VEDANT SURESH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
17	33	SHELAR TEJAS SUDHIR	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
18	40	SHINDE TANISHKA SANJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
19	41	DHAMAL HARSHADA AVINASH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
20	42	MORE SANCHITA VIKAS	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
21	44	WADKAR PRANAV AJIT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
22	47	SHINDE ABHAY DHANANJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB



Head
 Department of Mathematics
 Kisan Veer Mahavidyalaya
 Wai, Dist. Solapur

Janata Shikshan Sanstha's
KISAN VEER MAHA VIDYALAYA, WAI
 DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
 ATTENDANCE (2023-24)

Class: B.Sc.III

Sr. No.	Roll No.	Name	26/12/2023	1/1/2024	2/1/2024	8/1/2024	9/1/2024	15/1/2024	16/1/2024	22/1/2024
1	59	KUMBHAR ANKITA ROHIDAS	Present	Present	Present	Present	Present	Present	Present	Present
2	69	YADAV PRATIK DATTATRAY	Present	Present	Present	Present	Present	Present	Present	Present
3	86	AWALE RUTUJA SANDESH	Present	Present	Present	Present	Present	Present	Present	Present
4	89	CHAVAN SNEHAL JAYWANT	Present	Present	Present	Present	Present	Present	Present	Present
5	93	PAWAR SAURABH SHIVAJI	Present	Present	Present	Present	Present	Present	Present	Present
6	94	CHIKANE SAISH SANTOSH	Present	Present	Present	Present	Present	Present	Present	Present
7	95	NIMBALKAR VISHAL MUKUNDA	Present	Present	Present	Present	Present	Present	Present	Present
8	100	GAIKWAD AISHWARYA SURYAKANT	Present	Present	Present	Present	Present	Present	Present	Present
9	103	CHAVAN SHIVAM VIJAY	Present	Present	Present	Present	Present	Present	Present	Present
10	104	KAMATE RAJESHWARI SHIVAJI	Present	Present	Present	Present	Present	Present	Present	Present
Class: B.Sc.II										
11	18	CHAVAN ANURADHA KRUSHNAT	Present	Present	Present	Present	Present	Present	Present	Present
12	19	MAHAMUNI SONAL JITENDRA	Present	Present	Present	Present	Present	Present	Present	Present
13	20	JADHAV SAKSHI SACHIN	Present	Present	Present	Present	Present	Present	Present	Present
14	21	YADAV SANIKA BHANUDAS	Present	Present	Present	Present	Present	Present	Present	Present
15	22	JAGTAP ISHWARI JEETENDRA	Present	Present	Present	Present	Present	Present	Present	Present
16	31	BHOSALE VEDANT SURESH	Present	Present	Present	Present	Present	Present	Present	Present
17	33	SHELAR TEJAS SUDHIR	Present	Present	Present	Present	Present	Present	Present	Present
18	40	SHINDE TANISHKA SANJAY	Present	Present	Present	Present	Present	Present	Present	Present
19	41	DHAMAL HARSHADA AVINASH	Present	Present	Present	Present	Present	Present	Present	Present
20	42	MORE SANCHITA VIKAS	Present	Present	Present	Present	Present	Present	Present	Present
21	44	WADKAR PRANAV AJIT	Present	Present	Present	Present	Present	Present	Present	Present
22	47	SHINDE ABHAY DHANANJAY	Present	Present	Present	Present	Present	Present	Present	Present

Month:

Head

Department of Mathematics
 Kisan Veer Mahavidyalaya
 WAI - 440009



Janata Shikshan Sanstha's
KISAN VEER MAHA VIDYALAYA, WAI
 DEPARTMENT OF MATHEMATICS
 CERTIFICATE COURSE IN PYTHON FOR NUMERICAL COMPUTATIONS
 ATTENDANCE (2023-24)

Class: B.Sc.III

Sr. No.	Roll No.	Name	23/11/2023	29/11/2023	3/01/2024	5/2/2024	6/2/2024	12/2/2024	13/2/2024	20/2/2024
1	59	KUMBHAR ANKITA ROHIDAS	AB	AB	AB	AB	AB	AB	AB	AB
2	69	YADAV PRATIK DATTATRAY	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
3	86	A WALE RUTUJA SANDESH	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
4	89	CHAVAN SNEHAL JAYWANT	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal
5	93	PAWAR SAURABH SHIVAJI	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh
6	94	CHIKANE SAIK SANTOSH	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai
7	95	NIMBALKAR VISHAL MUKINDA	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
8	100	GAIKWAD AISHWARYA SURYAKANT	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
9	103	CHAVAN SHIVAM VIJAY	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam	Shivam
10	104	KAMATE RAJESHWARI SHIVAJI	Rajeshwari	Rajeshwari	Rajeshwari	Rajeshwari	Rajeshwari	Rajeshwari	Rajeshwari	Rajeshwari
Class: B.Sc.II										
11	18	CHAVAN ANURADHA KRUSHINAT	Anuradha	Anuradha	Anuradha	Anuradha	Anuradha	Anuradha	Anuradha	Anuradha
12	19	MAHAMUNI SONAL JITENDRA	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal	Sonal
13	20	JADHAV SAKSHI SACHIN	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
14	21	YADAV SANKHA BHANUDAS	Sankha	Sankha	Sankha	Sankha	Sankha	Sankha	Sankha	Sankha
15	22	JAGTAP ISHWARI JEETENDRA	Ishwari	Ishwari	Ishwari	Ishwari	Ishwari	Ishwari	Ishwari	Ishwari
16	31	BHOSALE VEDANT SURESH	Vedant	Vedant	Vedant	Vedant	Vedant	Vedant	Vedant	Vedant
17	33	SHELAR TEJAS SUDHIR	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
18	40	SHINDE TANISHKA SANJAY	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka	Tanishka
19	41	DHAMAL HARSHADA AVINASH	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
20	42	MORE SANCHITA VIKAS	Sanchita	Sanchita	Sanchita	Sanchita	Sanchita	Sanchita	Sanchita	Sanchita
21	44	WADKAR PRANA V AJIT	Prana	Prana	Prana	Prana	Prana	Prana	Prana	Prana
22	47	SHINDE ABHAY DHANANJAY	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay



Head
 Department of Mathematics
 Kisan Veer Mahavidyalaya
 Wai - 412803

7. Result of the Course:

Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya Wai
Department of Mathematics
Certificate Course in Python for Numerical Computations Examination
Marksheet (2023-24)

Date: 28/02/2024

Sr. No.	Roll No	Name	Coding (30)	Practical (20)	Total (50)
1	18	CHAVAN ANURADHA KRUSHNAT	27	15	42
2	19	MAHAMUNI SONAL JITENDRA	26	16	42
3	20	JADHAV SAKSHI SACHIN	28	17	45
4	21	YADAV SANIKA BHANUDAS	27	18	45
5	22	JAGTAP ISHWARI JEETANDRA	26	16	42
6	31	BHOSALE VEDANT SURESH	24	15	39
7	33	SHELAR TEJAS SUDHIR	24	14	38
8	40	SHINDE TANISHKA SANJAY	23	17	40
9	41	DHAMAL HARSHADA AVINASH	25	18	43
10	42	MORE SANCHITA VIKAS	28	17	45
11	44	WADKAR PRANAV AJIT	27	15	42
12	47	SHINDE ABHAY DHANANJAY	23	15	38
13	59	KUMBHAR ANKITA ROHIDAS	30	18	48
14	69	YADAV PRATIK DATTATRAY	25	15	40
15	86	AWALE RUTUJA SANDESH	30	19	49
16	89	CHAVAN SNEHAL JAYWANT	30	18	48
17	93	PAWAR SAURABH SHIVAJI	24	12	36
18	94	CHIKANE SAISH SANTOSH	23	14	37
19	95	NIMBALKAR VISHAL MUKINDA	24	13	37
20	100	GAIKWAD AISHWARYA SURYAKANT	29	18	47
21	103	CHAVAN SHIVAM VIJAY	23	14	37
22	104	KAMATE RAJESHWARI SHIVAJI	28	18	46

Santosh
Teacher Incharge
Mrs Santosh V.A.

Sonu
Head
Department of Mathematics
Kisan Veer Mahavidyalaya
Wai - 412803



**8. One Sample Certificate of the pass
(prefer Color Copy)**



The certificate is a rectangular document with a white background and a decorative border. At the top left is the logo of Janata Shikshan Sanstha, featuring a sun and a face. At the top center is the text "Janata Shikshan Sanstha's KISAN VEER MAHAVIDYALAYA, WAI". To the right is a portrait of a man in a white cap. Below the portrait is a circular portrait of Srinivasa Ramanujan. The word "Certificate" is written in large, bold, pink letters. The main text of the certificate reads: "This is to certify that Miss. Awale Rutuja Sandesh has completed successfully Certificate Course in Python for Numerical Computations conducted by Department of Mathematics, Kisan Veer Mahavidyalaya, Wai for the Academic year 2023-24 and obtained Grade 'A'." At the bottom left is the signature of the Convener & Head, Department of Mathematics. At the bottom right is the signature of the Principal, Kisan Veer Mahavidyalaya, Wai. A large, faint watermark "Kisan Veer" is visible across the bottom half of the page.

Janata Shikshan Sanstha's
KISAN VEER MAHAVIDYALAYA, WAI


Srinivasa Ramanujan

Certificate

This is to certify that **Miss. Awale Rutuja Sandesh** has completed successfully
Certificate Course in Python for Numerical Computations conducted by Department of
Mathematics, Kisan Veer Mahavidyalaya, Wai for the Academic year 2023-24 and
obtained Grade "A".


Convener & Head
Department of Mathematics


Principal
Kisan Veer Mahavidyalaya, Wai

Kisan Veer Mahavidyalaya, Wai

9. Geo-tagged Photos (If Available)

