

Janata Shikshan Sanstha's KISAN VEER MAHAVIDYALAYA, WAI



Certificate Course in Python 2022-23

Supportive Documents for Certificate Course Annual Report

Supportive Documents for

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 Resolution
- 4. Syllabus of the Course
- 5. Course Objectives and Outcomes
- 6. List of enrolled students
- 7. Time Table
- 8. Attendance Sheets
- 9. Result of the Course
- 10. One Sample Certificate of the pass student
- 11. Geotagged Photo



KISAN VEER MAHAVIDYALAYA, WAI



Department of Mathematics

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

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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 Eligibility: B. Sc. (Mathematics) Students

Introduced: since academic year 2021-22 DURATION 03 Months FEES:- Rs.500/-

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

Contact:

Dr. S.R. Tate (Course co-ordinator) Head Department of Mathematics Mob.7276235447

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

Department of Mathematics Kisan Veer Mahavidyalaya, Wai

Date: 06/01/2023

Notice

All the students of B.Sc. (Mathematics) are hereby informed that our department is going to conduct the "Certificate Course in Python". This course will be starting from 09/01/2023. Duration of course is Three months and fee is 500/-. Interested students should enrolled their names in the Department of Mathematics towards Lab Assistant, Shri Thombare Navnath.

Head

4. Syllabus

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, tulpes, 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.



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).



5. Course Objectives and Outcomes

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

6. List of enrolled students

Janata Shikshan Sansth's

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 MANSÉE 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	SUNEHÁ RAJPUT

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Course Coordinator Department of Mathematics CANSTELL OF CHAPTER AND MARKET

Prindipal Kisan Veer Mahavidyalaya, Wai

7. Time Table

Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai

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

8. Attendent Sheets:

Janata Shikshan Sanstha's (VISAN VEER MAHAVIDYALAYA, WAI

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

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Janata Shikshan Sanstha's KISAN VEER MAHAVIDYALAYA, WAI

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

Sr. No	Roll NO.	Students Name	13/01/23	20/10/02	_	21/01/23 27/01/23	28/01/23	3/02/23	4/0/23	52/20/01
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DEPARTMENT OF MATHEMATICS CERTIFICATE COURSE IN PYTHON (2022-23) ATTENENCE (THEORY)

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KISAN VEER MAHAVIDYALAYA, WAI

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KISAN VEER MAHAVIDYALAYA, WAI

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

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Students Name	CHAUDHARI VINIT ASHOK	PARTE SANIKA PRADIP	SHINDE PRUTHVIRAJ PRAKASH	RAUT ANISHA SAMPAT	THORAVE PRATIK SUDHIR	JAGTAP JIVAN ATMARAM	GAIKWAD RUTIKA VITTHAL	JAGTAP AVISHKAR JEEVAN	KHARE ATHARV NANDKUMAR	KARANJE SANKET SANJAY	CHAVAN SAKSHI SUDHAKAR	WADKAR YASH MAHENDRA	SHINGATE NIRANJAN SHIVAJI	PISAL JAGANNATH KUMAR	BHOSALE OM RAVINDRA	SUNEHA RAJPUT
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Head Dr Department of Mathematics Kisan Veer Mahavidyalaya

KISAN VEER MAHAVIDYALAYA, WAI

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

Roll NO.	Students Name	21/04/23	28/04/23 29/04/23 6/05/23	22/20/23		12/06/23 13/05/23 15/05/23	13/05/23	15 /05/23	16/05/23
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Janata Shikshan Sanstha's KISAN VEER MAHAVIDYALAYA, WAI

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

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KISAN VEER MAHAVIDYALAYA, WAI

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

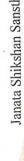
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KISAN VEER MAHAVIDYALAYA, WAI

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

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Students Name	ADSUL MANASI RAJENDRA	SHINDE ANIL KRUSHNA	SHAIKH BILAL SALLAUDDIN	PAWAR PRATIK DATTATRAY	THOMBARE MADHAVI DIPAK	WAKALE SARITA SHIVAJI	RAJPURE MANASI BALKRUSHNA	RAJPURE PREM JITENDRA	ANKITA MAHADEV DHANAWDE	ABOLI ARUN SUTAR	JATHAR MANSEE PRAVIN	MAHAMUNI TEJAS RAJENDRA	HOGADE SHASHIKANT DATTATRAY	PISAL DINESH ANANDA	BHOITE ARJUN RAJENDRA	BHOSALE DHANASHRI SUBODH	RAJPURE SAHIL SOMNATH
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Janata Shikshan Sanstha's KISAN VEER MAHAVIDYALAYA, WAI

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

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Head Mathematics

Kisan Veer Mahavidyalaya

Wai - 412803

KISAN VEER MAHAVIDYALAYA, WAI

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

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Students Name	ADSUL MANASI RAJENDRA	SHINDE ANIL KRUSHNA	SHAIKH BILAL SALLAUDDIN	PAWAR PRATIK DATTATRAY	THOMBARE MADHAVI DIPAK	WAKALE SARITA SHIVAJI	RAJPURE MANASI BALKRUSHNA	RAJPURE PREM JITENDRA	ANKITA MAHADEV DHANAWDE	ABOLI ARUN SUTAR	JATHAR MANSEE PRAVIN	MAHAMUNI TEJAS RAJENDRA	HOGADE SHASHIKANT DATTATRAY	PISAL DINESH ANANDA	BHOITE ARJUN RAJENDRA	BHOSALE DHANASHRI SUBODH	RAJPURE SAHIL SOMNATH
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KISAN VEER MAHAVIDYALAYA, WAI

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

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KISAN VEER MAHAVIDYALAYA, WAI

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

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7	78	RAJPURE MANASI BALKRUSHNA	MIBIGUILE MBRUJAO	morning mile region	MB region on orange on Bragan MB. Regions	3. Rey prof	B. Rayer	Androp B.W	(Mercy Pro	
æ	79	RAJPURE PREM JITENDRA	AB (P. J. Remoure P. J. Rejoure P. J. Roj Rus P. J. Rajoure D. J. Rejoure	P.J. Rejpuse P.	Roj Mr. J.	Agina &	J. Rajpine	P. J. Rojova	
6	80	ANKITA MAHADEV DHANAWDE	(A) Janam	ABTEROWNS - Patricipal Androwale HANDring Epiteberowny Tatron 1 1 teneral Total 100.	de Man Orange entre	Danemed 1	Vol	1 h hansed	The role	ó
10	81	ABOLI ARUN SUTAR	A A. Surtan	A. A. Sutay	A. A. Sutan A.	A.Surtan A.	A. Surta	A. A. Suta	A.A.Suto	,
+	82	JATHAR MANSEE PRAVIN	PAPER AND THE PROPERTY OF THE	M. Belten	MPHIME IN	P. Ballon IV	Prater	M.P. Ballan	MERHAN	
5	6	MAHAMUNI TEJAS RAJENDRA	7 Jamest	Frateural Frateural	Thebarred Bo	Jahared Balowell Thebares	maroqu	habaren	The barrie	
ئ 5	95	HOGADE SHASHIKANT DATTATRAY	TANK THE TAN	For AM		# W #	南	#Wr	10000000000000000000000000000000000000	
4	127	PISAL DINESH ANANDA	(Boeked		Torion .	1000get (1)	Colored -	Dough A	TO CHOOL	1
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16	131	BHOSALE DHANASHRI SUBODH	BRY	A843	282	- 1	3000	2300	S. S. S.	1
17	134	RAJPURE SAHIL SOMNATH	Saper la saper	Safer Rose	receptor	2	_			
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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	21/04/12	28/04/23	23/20/23	6/05/23	52/50/21	5	15/05/23	16/05/23
18	13	CHAUDHARI VINIT ASHOK	lg)	Tool or	A Soil	B	B	Sp	B	and and
19	43	PARTE SANIKA PRADIP	Spring	Spiles.	Bonite.	Builto	Gnitol.	Sairy	San'YS	Sea Led
20	20	SHINDE PRUTHVIRAJ PRAKASH	Bree	And	Brook	Pehol	Bhd	Petrole	Palos	Rehard
21	99	RAUT ANISHA SAMPAT	A Dan	pont	Smode	Apont	Bank	Dunk.	Pour	Boart
22	29	THORAVE PRATIK SUDHIR	Florenc.	Theyall	Theseur Thesave Thosave	Modave,	Shopave	Shopave Atheral 4 Freday B	BANG	Allesate.
23	89	JAGTAP JIVAN ATMARAM	By Lost of	THE SO	Mary.	がある	CASA TA	HE BO	JARRY S	THE BO
24	72	GAIKWAD RUTIKA VITTHAL	1	(R)	A STATE OF THE STA	(6)		Total Delivery	(Para)	(A)
25	88	JAGTAP AVISHKAR JEEVAN	£	\/\\\	が	my	25	多	177K	AN
26	89	KHARE ATHARV NANDKUMAR	H	7	A	N	A	A	M	P
_	06	KARANJE SANKET SANJAY	Ser .		A. A.	(de)	· (2)	1	\$	Jag.
	95 (CHAVAN SAKSHI SUDHAKAR	Sharry	oberthe	along	chatri	dalk	Oblah	shirt	JAH.
<u> </u>	96	WADKAR YASH MAHENDRA	yage	Magh	Yesh	प्रकर	Last	year	Speak	1801
0,	97 S	SHINGATE NIRANJAN SHIVAJI	N.Shingle	AB L	N.shingte	N. shings	88	Nishingle	Nishingle Nishing	Masing
6	98 P	PISAL JAGANNATH KUMAR	图	树	序	AB	AB	南	南	脚
104		BHOSALE OM RAVINDRA	900	app	949	CABCE	app	THO	OPB	AR
121		SUNEHA RAJPUT	2	CO		\$	JE.	C.	6	a

Head More of Mathematics Kisan Veer Mahavidyalaya Wai - 412803

9. Result of the Course:

Janata Shikshan Sanstha's Kisan Veer Mahavidyalaya Wai

Department of Mathematics Examination: Certificate Course in Python (2022-23)

Marksheet

Sr.	Roll		Marks
No	No	Name of the Student	
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
1	82	JATHAR MANSEE PRAVIN	49
2	91	MAHAMUNI TEJAS RAJENDRA	40
3	95	HOGADE SHASHIKANT DATTATRAY	49
4	127	PISAL DINESH ANANDA	49
5	128	BHOITE ARJUN RAJENDRA	40
6	131	BHOSALE DHANASHRI SUBODH	49
7	134	RAJPURE SAHIL SOMNATH	48
8	13	CHAUDHARI VINIT ASHOK	38
9	43	PARTE SANIKA PRADIP .	48
)	50	SHINDE PRUTHVIRAJ PRAKASH	39
1	66	RAUT ANISHA SAMPAT	45
2	67	THORAVE PRATIK SUDHIR	35
	68	JAGTAP JIVAN ATMARAM	36
	72	GAIKWAD RUTIKA VITTHAL	40
	88	JAGTAP AVISHKAR JEEVAN	
	89	KHARE ATHARV NANDKUMAR	41
	90	KARANJE SANKET SANJAY	44
	95	CHAVAN SAKSHI SUDHAKAR	48
	96	WADKAR YASH MAHENDRA	43
	97	SHINGATE NIRANJAN SHIVAJI	39
	98	PISAL JAGANNATH KUMAR	40
	104	BHOSALE OM RAVINDRA	42
	121	SUNEHA RAJPUT	38

Some

10. One Sample Certificate of the pass



Janata Shikshan Sanstha's

Kisan Veer Mahavidyalaya, Wai



Department of Mathematics

Sanova

Kisan Veer Mahavidyalaya, Wai for the Academic year 2022-23 and obtained Grade "A".

completed successfully Certificate Course in Pyanon conducted by Department of Mathematics,

This is to certify that Mr. Shinde Anil Krushna of B. Sc. III (Mathematics) class has

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

Principal

Kisan Veer Mahavidyalaya, Wai

11. Geotagged Photo



