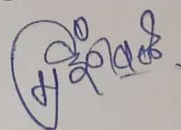


**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Botany**  
**Certificate Course In Horticulture**  
**Report – 2021- 22**

The department of Botany had decided to conduct a certificate course in the departmental meeting. The title of the course is "Certificate Course In Horticulture" was finalized. For this course permission was taken from Principal of Kisan Veer Mahavidyalaya, Wai. The notification and advertisement was made through our college website. Notices were displaced for students on notice board. Official admission process of students was take place. The inauguration of course was done on Saturday 9/04/2022 in room no-A-13 at 11.30 am. by Honourable Dr. Gurunath Fagare, Principal of our college. Dr. E. B. Bhalerao Head Department of Botany chaired the function. Duration of course is 120 hours (six month) which includes theory and practical's. Entire course is of 200 marks.

The time table was displaced on the departmental notice board. Total 09 students of B. Sc.III were enrolled for the course. Regular lectures and practicals were conducted according to the time table. As a part of our syllabus visit to Medicinal and Aromatic Plants was arranged to Surur on 18/05/2022 by Department of Botany, Kisan Veer Mahavidyalaya, Wai. Theory and practical examination of the course was conducted. All marks of students were submitted to Department of Botany. All passed students were issued Certificates from department of Botany. Students gained knowledge about horticulture and one more certificate along with the B. Sc. Degree. The departmental staff, administration of the college and especially Hon. Principal supported a lot. The entire 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 Mrs M. V. Ingawale

Course Coordinator

Department of Botany

Kisan Veer Mahavidyalaya, Wai

Date: 08/04/2022.

To,

The Principal

Kisan Veer Mahavidyalaya, Wai

**Subject:** Regarding permission of Inauguration function of Certificate course in Horticulture.

Respected Sir,

Our Department is running a short-term course entitled "**CERTIFICATE COURSE IN HORTICULTURE**" from last academic year, the same course will be continued for this year also. Kindly allow us a permission of Inauguration function of this course on 09/04/2022 at 11:30 am. You will be a guest of Honours of the function, Kindly accept the same and do welcome.

Thanking you.

Yours faithfully,

E. B. Bhalerao

Dr. E. B. Bhalerao

Head

Janata Shikshan Sanstha's  
Kisan Veer Mahavidyalaya, Wai  
**DEPARTMENT OF BOTANY**

**SYLLABUS FOR SHORT TERM COURSE IN HORTICULTURE**

**1. FLORICULTURE**

- 1.1 Scope and importance of ornamental crops;
- 1.2 Industrial importance of ornamental plants
- 1.3 Detailed Cultivation of Roses

**2. ASEXUAL PROPAGATION**

- 2.1 Cutting technique in Hibiscus
- 2.2 Budding technique in Rose
- 2.3 Grafting technique in Mango
- 2.4 Air Layering in Pomegranate

**3. PLANT PATHOLOGY**

- 3.1 Introduction, scope and objectives of Plant Pathology.
- 3.2 Terms and concepts in Plant Pathology.
- 3.3 Diseases, symptoms and control of rose and mango

**Praciteals**

- 1. Morphological studies of ornamental Plants. (As per syllabus) 5
- 2. Herbarium preparation
- 3. Cultivation of Roses

4. Budding technique in Rose
5. Grafting technique in Mango
- 5 Air Layering in Pomegranate
6. Nursery techniques- Budding, Grafting and layering.
7. Pot plantation. Pot filling, planting and repotting
8. Cutting technique in Hibiscus
9. Study tour- report to be submitted 5
10. Submission: Seeds of any two medicinal and aromatic plants.

Project report 10

Work experience 10



## Department of Botany

# CERTIFICATE COURSE IN HORTICULTURE

**Eligibility:** 10<sup>th</sup> (pass) Any Discipline  
**Medium of Instruction:** English

**Intake Capacity:**  
Min-10 Max- 25

**Duration:** 3 Months  
**Fees:** Rs. 500/-

### Syllabus:

Duration of course- 120 hrs  
Theory- 70 marks (80hrs)  
Practical-30 Marks (40hrs)

### 3 Month-Course Work

Theory- 70 Marks  
Practical -30 Marks  
Internal Experience -20 Marks  
Project Report -10 Marks

### Internal Evaluation

Home Assignment - 5 Marks  
Periodical Tests - 5 Marks  
Seminars - 5 Marks  
Group Discussion - 5 Marks  
Total - 20 Marks

### Over all aim of the course

1. To impart knowledge on status and export of horticulture plants.
2. To conserve horticulture plants.
3. To discuss problems in production and marketing.
4. To know the use of these plants in medicine, and cosmetics, perfumery industry
5. To Study horticultural plants.
6. To Study various conservation method.
7. Identification of these Plants.

### Course Outcome

#### Knowledge skill:

- Develop an understanding on constraints and problems in production and marketing horticultural plants

#### Intellectual skills

- Developing expertise among the graduates for organized market for these plants.
- Creation of niche market covering phytochemicals, value addition and market enhancement.

#### Professional and practical skills

- To establish value addition ventures, botanical extract, isolation of bio-active compounds, aroma chemicals.
- Transforming the knowledge into skills for promotion of herbal industry.
- Practical exercises and field visit.

### For Further Details Contact:

Course Coordinator-

**Dr.E.B.Bhalerao** - 9545585927

**Dr. M. V. Ingawale** -9922393896

**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Botany- "Certificate Course in Horticulture"**  
**Student List 2021 - 22**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Class</b>	<b>Roll No.</b>
1	VARE ANIKET RAJARAM	Bsc.III	13
2	KACHARE RASIKA BALKRUSHNA	Bsc.III	38
3	SAWANT ANUJA DINESH	Bsc.III	92
4	BANSODE DARSHANA DATTATRAY	Bsc.III	95
5	SALGAR PRAJAKTA RAMESH	Bsc.III	96
6	LONDHE PARIKSHIT ASHOK	Bsc.III	98
7	PATOLE REKHA NARAYAN	Bsc.III	99
8	RAM MADHUKUMARI SAROJKUMAR	Bsc.III	100
9	SHINDE PRABHAKAR RUSHIKESH	Bsc.III	112

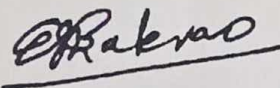
*(Signature)*

JANATA SHIKSHAN SANSTH'S  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF BOTANY  
TIME TABLE 2021-20202

**Short term course- In Horticulture**

Sr no.	Month	Thursday(Lecture) 1.30p.m – 2.30p.m	Friday (Lecture) 1.30p.m –2.30p.m	Saturday(Practical) 1.30p.m -3.30p.m
1	September	CSI	MVI	DAC
2	October	DAC	HVJ	MVI
3	November	HVJ	AAM	EEB
4	December	AAM	DAC	HVJ
5	January	HVJ	DAC	CSI
6	February	AAM	CSI	AAM

Note - Attendance of student is compulsory



HEAD

DEPARTMENT OF BOTANY

PRINCIPAL

KISAN VEER MAHAVIDYALAYA, WAI.

Janata Shikshan Sanstha's  
Kisan Veer Mahavidyalaya, Wai  
Inauguration of Certificate Course in Horticulture

Student Presenty

Date:- 09/04/2022

Time - 11.30am

Sr. No	Name of the Students	Class	Signature
1.	Lakhe Harshada Santosh.	B.Sc. II	<del>Lakhe</del>
2.	Sapkal Rutuja Tulsiram	B.S.C II	<del>Sapkal</del>
3.	NIKITA PRAMOD SHINDE	B.S.C I	N.
4.	Kuyangude Sakshi Umesh	BSC I	Sakshi
5.	Jagtap Urushali Sunil	B.Sc II	Urushali
6.	Yadav Rutuja shrawan	B.Sc II	R.S. Yadav
7.	Sasane Rucha Umesh	B.Sc II	R.U. Sasane
8.	Jadhav Vaishnavi Abhijit	B.Sc II	A. Jadhav
9.	Bhosale Smita Anil	B.Sc II	S. Bhosale
10.	Pisat Poochi Uttamrao.	B.Sc. II	P. Pisat
11.	Jagade Shivani Dnyaneshwar.	Bsc I	sunagade
12.	Mahodik Mayuri Bala	Bsc. I	M. Mahodik
13.	Jaygude Mansi pradeep	Bsc. I	Mansi
14.	Jagtap Sakshi Arvind	BSC I	S. Jagtap
15.	Patwar Diksha Prakash	BSC I	D. Patwar
16.	Ladaf Madina Abdul	BSC - I	M. Ladaf
17.	Warkhade shivanjalee Ajit	BSC - I	S.A. Warkhade
18.	Nimbalkar Neha Jalindar	BSC - I	N. Nimbalkar
19.	Shinde Sakshi Prakash	BSC - I	S. Shinde
20.	Jangam Prilam Bharat	BSC - I	P. B. Jangam
21.	Bhilare Jyoti Rasendra	BSC - I	J. Bhilare
22.	Mandhare shivani Rames	BSC - II	S. R. Mandhare
23.	Nikam Kajal vikas	BSC - II	K. V. Nikam
24.	Gale Nikita Dattatray	BSC - II	N. Gale
25.	shinde dipti digambar	BSC - II	S. Shinde
26.	shivathore sonam Sambaji	BSC - II	S. Shivathore
27.	Jingale Sonali Prakash	Bsc - II	S. Jingale

E. K. Kalyan  
09/04/2022

HEAD  
DEPARTMENT OF BOTANY  
Kisan Veer Mahavidyalaya, Wai



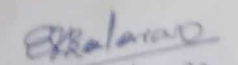
name

Div-

Roll no.

Sign.

28	Pawar Aryan Avinash	F.Y. BSC - 95	<del>A. P. Pawar</del>
29	Bagade Deepak Dinkar	F.Y. BSC - 27	D. D. Bagade
30	Gurukul Omkar Vijay	F.Y. BSC - 15	<del>Omkar Gurukul</del>
31	Ravi Soham Vishwanath	S.Y. BSC - 31	S. V. Ravi
32	Shinde Shivdas Homant	S.Y. BSC - 47	S. H. Shinde
33	Kurande Pratik Anil	S.Y. BSC - 196	<del>Pratik Kurande</del>
34	Jadhav Prathamesh Sanjay	S.Y. BSC - 195	<del>Prathamesh Jadhav</del>
35	Suzab Hussain	T.Y. BSC - 292	S. H. Hussain
36	Aniket Rajaram Kase	T.Y. BSC - 13	A. Kase
37	Nitin Suresh Nalawade	T.Y. BSC - 9	N. S. Nalawade
38	Solaskar Aditya Madhukar	S.Y. BSC - 03	A. Solaskar
39	Nishant Prakash Jagude	S.Y. BSC - 158	N. P. Jagude
40	Prajwal Vilas Jamdade	S.Y. BSC - 29	P. V. Jamdade
41	Sanas Abhiraj Arjun	S.Y. BSC - 131	A. Sanas
42	Jagtap Prathamesh Satish	S.Y. BSC - 192	P. Jagtap
43	Dhumal Abhishek Nandkumar	S.Y. BSC - 05	D. Dhumal
44	Jagtap Shubham Digambar	S.Y. BSC - 63	S. D. Jagtap
45	Dhumal Sumit Mahesh	S.Y. BSC - 06	S. Dhumal
46	Dhumal Akash Guryakant	S.Y. BSC - 90	A. Dhumal
47	Patne Sanket	BSC - II - 134	P. Patne
48	Jadhav Divya	BSC - II - 170	J. Jadhav
49	Shinde Sakshi	BSC - II - 169	S. Shinde
50	Shinde Rutuja	BSC - II - 165	R. Shinde
51	Gaikwad Nikita	BSC - II - 167	G. Gaikwad
52	Junde Meljabeen	BSC III - 50	J. Junde
53	Kadam Priyanka	BSC III - 16	P. Kadam
54	Kachare Rasika Balkrishnam	BSC III - 38	R. B. Kachare
55	Erande Pooja Anil	BSC II - 207	P. A. Erande
56	Balalekar Divya Deepak	BSC II - 155	D. Balalekar
57	Chikane Siddhi Ramesh	BSC II - 153	S. Chikane
58	Jadhav Nikita Sambhaji	BSC II - 88	N. Jadhav
59	Vare Aniket Rajaram	BSC - III - 19	V. Vare
60	Landhe P. A.	- II - 48	P. Landhe
61	Shinde R. P.	- II - 100	R. Shinde
62			
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 09/11/2022  
 HEAD  
 DEPARTMENT OF BOTANY  
 Kisan Veer Mahavidyalaya,









Shivaji University Kolhapur

Short Term Course Examination -2021-22

Horticulture

Marks 50

**Q. 1 Choose the correct options.**

10

**01. Black pod is disease of:**

- (A) Arecanut (B) Coconut (C) Chestnut (D) Cocoa

**02. Edible portion of Turnip is:**

- (A) Hypocotyl (B) Root (C) Tuber (D) Stem

**03. An example of mass flower:**

- (A) Snapdragon (B) Liatris (C) Rose (D) Larkspur

**04. Clinching is related to:**

- (A) Freezing (B) Drying (C) Canning (D) Fermentation

**05. In which Indian state rice is grown below sea level:**

- (A) Tamil Nadu (B) Karnatka (C) Andhra Pradesh (D) Kerla

**06. Chilling sensitive apples are stored at:**

- (A) -1 to 00 c (B) 3 to 50 c (C) 8 to 10 0 c (D) Above 10 0 c

**07. Which crop has polyembryonic nature:**

- (A) Pomegranate (B) jamun (C) Krona (D) Dragon fruit

**08. The process of separation of coarse/ rough rice into grain and chaff is called as:**

- (A) Hulling (B) Harvesting (C) Threshing (D) processing

**09. Which is oldest garden of south East Asia?**

- (A) Indian Botanic garden  
(B) Lal Bagh Garden  
(c) Lloyds Botanical Garden

(D) Brindavan Garden

**Q. 1. Which is not the principle of landscaping :**

(A) Rhythm (B) Unity (C) Balance (D) Line

**Q. 2. Write a Short Note.**

**20**

1. Fruit Preservation
2. Landscape gardening
3. Types of Gardening
4. Seed bank

**Q. 3. Long Answer question.**

**20**

1. Describe vegetative propagation techniques in details.
2. Define Horticulture and Explain its branches.

"To illumine The Pathways Indeed We Have Come"



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

Short Term Course  
on  
**Horticulture**

Organised By  
**Department of Botany**



❁ **Certificate** ❁

This is to certify that Shri./Smt. \_\_\_\_\_ has successfully  
completed Three months Short Term Course on Horticulture held during, \_\_\_\_\_ at Department of Botany,  
Kisan Veer Mahavidyalaya, Wai, Dist. Satara.

**Head**  
Dept. of Botany

**Principal**  
Kisan Veer Mahavidyalaya, Wai



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

B.Sc-III Horticulture (Short Term course)

Date: 12/07/2022

Theory Paper (70 Marks)

**Presentee Report (2021-2022)**

Sr.No	Name	Roll No	Marks
1	VARE ANIKET RAJARAM	13	68
2	KACHARE RASIKA BALKRUSHNA	38	69
3	SAWANT ANUJA DINESH	92	62
4	BANSODE DARSHANA DATTATRAY	95	64
5	SALGAR PRAJAKTA RAMESH	96	64
6	LONDHE PARIKSHIT ASHOK	98	60
7	PATOLE REKHA NARAYAN	99	68
8	RAM MADHUKUMARI SAROJKUMAR	100	AB
9	SHINDE RUSHIKESH PRABHAKAR	112	66

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

B.Sc-III Horticulture (Short Term course)

Date: 12/07/2022

Practical (30 Marks)

Sr.No	Name	Roll No	Marks
1	VARE ANIKET RAJARAM	13	28
2	KACHARE RASIKA BALKRUSHNA	38	29
3	SAWANT ANUJA DINESH	92	25
4	BANSODE DARSHANA DATTATRAY	95	27
5	SALGAR PRAJAKTA RAMESH	96	27
6	LONDHE PARIKSHIT ASHOK	98	25
7	PATOLE REKHA NARAYAN	99	28
8	RAM MADHUKUMARI SAROJKUMAR	100	AB
9	SHINDE RUSHIKESH PRABHAKAR	112	27

Janata Shikshan Sanstha's  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Botany**  
B.Sc-III Horticulture (Short Term course)

Date: 12/07/2022

Internal Evaluation (50 Marks)

Sr.No	Name	Roll No	Marks
1	VARE ANIKET RAJARAM	13	49
2	KACHARE RASIKA BALKRUSHNA	38	50
3	SAWANT ANUJA DINESH	92	45
4	BANSODE DARSHANA DATTATRAY	95	49
5	SALGAR PRAJAKTA RAMESH	96	49
6	LONDHE PARIKSHIT ASHOK	98	45
7	PATOLE REKHA NARAYAN	99	49
8	RAM MADHUKUMARI SAROJKUMAR	100	AB
9	SHINDE RUSHIKESH PRABHAKAR	112	48

Janata Shikshan Sanstha's  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Botany**  
B.Sc-III Horticulture (Short Term course)

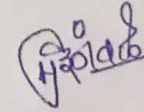
Date: 12/07/2022

Final Result ( 150 Marks)

Sr.No	Name	Roll No	Marks
1	VARE ANIKET RAJARAM	13	145
2	KACHARE RASIKA BALKRUSHNA	38	148
3	SAWANT ANUJA DINESH	92	132
4	BANSODE DARSHANA DATTATRAY	95	140
5	SALGAR PRAJAKTA RAMESH	96	140
6	LONDHE PARIKSHIT ASHOK	98	130
7	PATOLE REKHA NARAYAN	99	145
8	RAM MADHUKUMARI SAROJKUMAR	100	AB
9	SHINDE RUSHIKESH PRABHAKAR	112	141

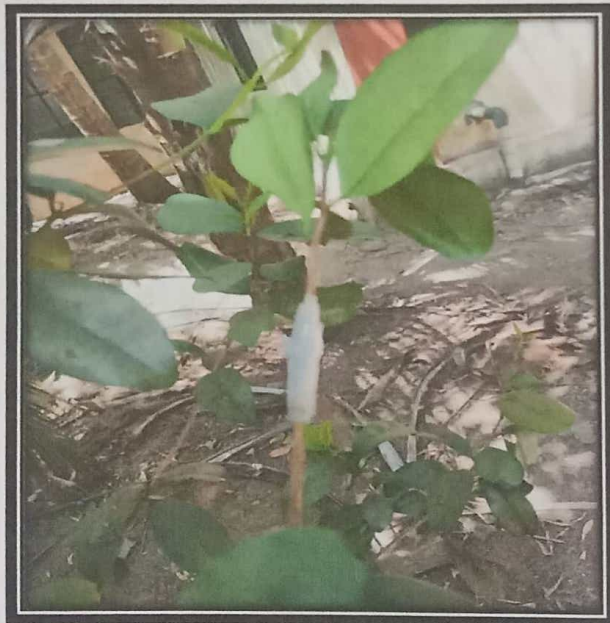
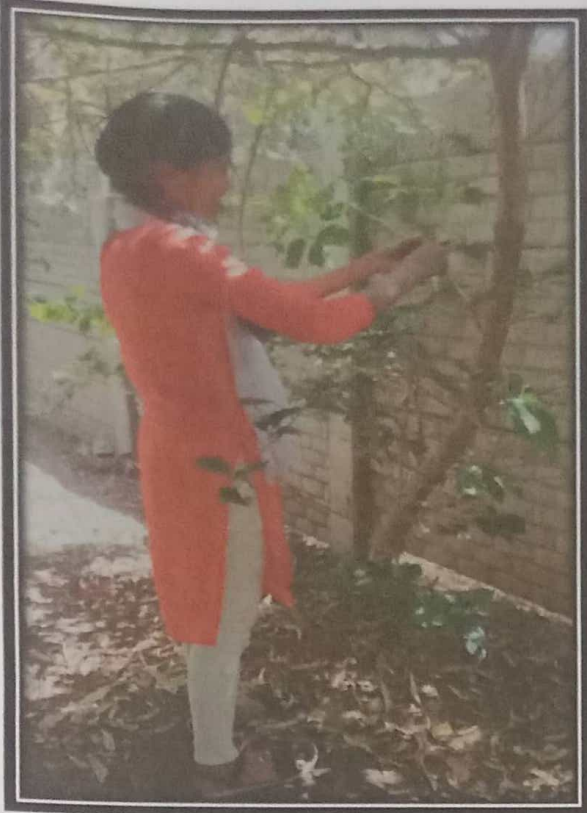
**Shivaji University Kolhapur**  
**Short Term Course Examination -2021-22**  
**Horticulture**  
**Result**

Roll. No	Name of The Students	Practical	Theory
13	VARE ANIKET RAJARAM	48	47
38	KACHARE RASIKA BALKRUSHNA	49	48
92	SAWANT ANUJA DINESH	47	46
95	BANSODE DARSHANA DATTATRAY	47	45
96	SALGAR PRAJAKTA RAMESH	47	45
98	LONDHE PARIKSHIT ASHOK	46	46
99	PATOLE REKHA NARAYAN	49	48
100	SHINDE RUSHIKESH PRABHAKAR	47	47

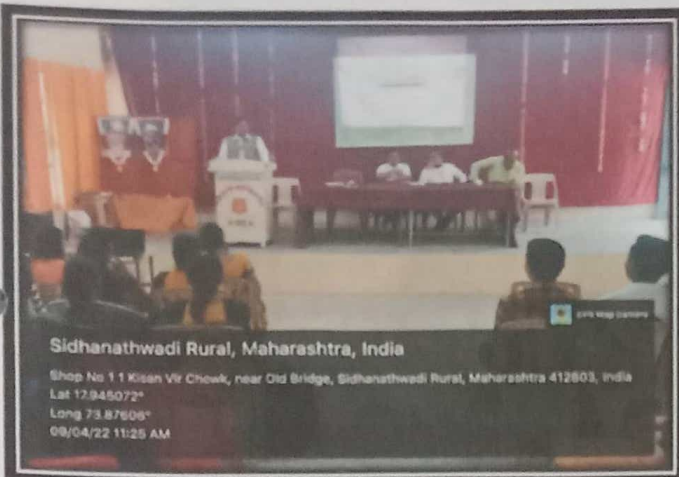


**HEAD**  
**DEPARTMENT OF BOTANY**  
Kisan Veer Mahavidyalaya, Wai

## Horticulture: - Practical Demonstration



# Certificate course in Horticulture



Sidhanathwadi Rural, Maharashtra, India

Shop No 11 Kisan Vir Chowk, near Old Bridge, Sidhanathwadi Rural, Maharashtra 412803, India  
Lat 17.945072°  
Long 73.87606°  
09/04/22 11:25 AM

Addressing of Principal to the B. Sc. students



Sidhanathwadi Rural, Maharashtra, India

Shop No 11 Kisan Vir Chowk, near Old Bridge, Sidhanathwadi Rural, Maharashtra 412803, India  
Lat 17.945002°  
Long 73.87606°  
09/04/22 11:37 AM

Key note Address of Dr. E. B. Bhalerao



an Veer  
aya Wa.  
Google

Sidhanathwadi Rural, Maharashtra, India

Shop No 11 Kisan Vir Chowk, near Old Bridge, Sidhanathwadi Rural,  
Maharashtra 412803, India  
Lat 17.945033°  
Long 73.876055°  
09/04/22 11:19 AM

Introduction of Chief Guest



an Veer  
aya Wa.  
Google

Sidhanathwadi Rural, Maharashtra, India

Shop No 11 Kisan Vir Chowk, near Old Bridge, Sidhanathwadi Rural,  
Maharashtra 412803, India  
Lat 17.944998°  
Long 73.876058°  
09/04/22 11:19 AM

Students of B.Sc.