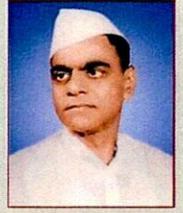




**JANATA SHIKSHAN SANSTHA'S  
KISAN VEER MAHAVIDYALAYA,  
WAI**

(Affiliated to Shivaji University, Kolhapur)



**Certificate course in HORTICULTURE**

**Supportive Documents for  
Certificate Course Annual Report**

1. Short Report of The Particular Academic Year
2. Certificate Course Brochure/Handbook
3. Notice regarding the introduction date of the course and BOS.
4. Aims, Objective and Syllabus of the Course
5. Time Table
6. List of enrolled students
7. Attendance Sheets
8. Paper Format
9. Results of the Course
10. One Sample Certificate of the pass students
11. Geo-tagged Photos (If Available).



**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Department of Botany**  
**Course Report – 2019- 20**

The department of Botany had decided to conduct a certificate course of Department of Lifelong Learning and Extension, Shivaji University Kolhapur in the departmental meeting. The title of the course is "Medicinal and Aromatic Plants" 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 through guidelines of Shivaji University, Kolhapur. The inauguration of course was done on 4<sup>th</sup> Oct 2021 by Dr. Shrikant Katre (Satara). 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 25 students 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 14/02/2020 by Department of Botany, Kisan Veer Mahavidyalaya, Wai. Theory and practical examination of the course was conducted. All marks of students were submitted to Shivaji University, Kolhapur. All passed students were issued Certificates from Shivaji University, Kolhapur. Students gained knowledge about medicinal and aromatic plants 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



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



Dr. E. B. Bhalerao  
**Head**  
**Department of Botany**  
**Kisan Veer Mahavidyalaya,**  
Wai 412202

Department of Botany  
Kisan Veer Mahavidyalaya, Wai  
Date: 31/07/2019.

## Notice

Our department is launching a short-term course entitled "**Medicinal and Aromatic plants**" from this academic year under the Department of Lifelong Learning and Extension, Shivaji University Kolhapur. Duration of course is six months and fee is 1100/-. There are limited seats so interested students should enrolled their names in the department of Botany towards Mrs. Pol madam. After successfully completion of course, passed students will get University certificate.



Dr. E. B. Bhalerao

Head

Department of Botany  
Kisan Veer Mahavidyalaya,  
Wai 412003





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

Department of Botany  
Kisan Veer Mahavidyalaya, Wai  
Date: 03/10/2019.

To,  
The Principal  
Kisan Veer Mahavidyalaya, Wai

Subject: Regarding permission of Inauguration function of short-term  
Course

Our department is launching a short-term course entitled  
“**Medicinal and Aromatic plants**” from this academic year, kindly  
allow us a permission of Inauguration function of this course on  
4/10/2019 at 11:00 am. I also request you to chair the function. So  
please do come for the same.

Thanking you.

Yours faithfully,



Dr. E. B. Bhalerao

**Head**  
**Department of Botany**  
**Kisan Veer Mahavidyalaya,**  
**Wai 412003**





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

Department of Botany  
Kisan Veer Mahavidyalaya, Wai  
Date: 3/10/2019.

## Notice

All the students who enrolled for short term course of Botany are hereby informed that **“Medicinal and Aromatic plants”** will be started from 4/ 10 /2019. It is to be noted that this course is mandatory to every admitted student's .As per timetable their periods and practicals will be conducted in the department. Each theory lecture will be of 1Clock hour and each practical will be of 2 Clock hours. There will be a compulsory study tour. There will be internal Evaluation of 20 marks, Theory paper I and II for 100 marks, practical of 50 marks and project report 10 marks. Thus entire course is of 200 marks.



*E. B. Bhalerao*  
Head Department of Botany

Department of Botany  
Kisan Veer Mahavidyalaya,  
Wai 412803

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

JANATA SHIKSHAN SANSTH'S  
KISAN VEER MAHAVIDYALAYA, WAI  
DEPARTMENT OF BOTANY  
TIME TABLE 2019-2020

**Short term course- Aromatics and Medicinal Plants**

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	EBB	MVI	RRV
2	October	MVI	EEB	AAM
3	November	RRV	ADJ	PBS
4	December	ADJ	RRV	MVI
5	January	PBS	AAM	EEB
6	February	AAM	PBS	ADJ

Note - Attendance of student is compulsory

*E. K. Ramesh*

HEAD

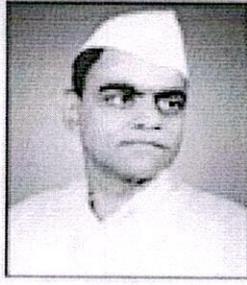
DEPARTMENT OF BOTANY  
**Head**  
Department of Botany  
Kisan Veer Mahavidyalaya,  
Wai 412803



*E. K. Ramesh*

PRINCIPAL

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



**Janata Shikshan Sanstha's  
Kisan veer Mahavidyalaya, wai  
Department of Botany**



**“Certificate Course in Medicinal and Aromatic Plants”**

Eligibility: - B. Sc. I, B. Sc. II, B. Sc. III, Students

Duration: - Six months

**Objectives of course**

- Identification of Medicinal plants of the region.
- To study medicinal uses of medicinal plants.
- To study various conservation methods.

**Contact**

**Dr. Mrs. M. V. Ingawale**

Course Coordinator

Mob. No. 9922393896



**Dr. E. B. Bhalerao**

Head Department of Botany

**Department of Botany  
Kisan veer Mahavidyalaya,  
Wai 412008**

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

**Janata Shikshan Sanstha's**  
**Kisan Veer Mahavidyalaya, Wai**  
**Botany-"Certificate Course in Aromatic & Medicinal Plants"**  
**Student List 2019-2020**

Sr. No.	Student Name	Class	Roll No.
1	BABAR ANIKET VIJAY	Bsc.III	51
2	BABAR RUCHITA RAJENDRA	Bsc.III	52
3	BHOSALE ASAVARI VIJAY	Bsc.III	53
4	CHAUDHARI DNYANESHWAR NAVNATH	Bsc.III	54
5	DHUMAL GITAL VITTHAL	Bsc.III	55
6	GADHAVE PRAJAKTA BALU	Bsc.III	56
7	GAIKWAD ANKITA BHANUDAS	Bsc.III	57
8	GAIKWAD VIKAS RAMDAS	Bsc.III	58
9	HAJARE MINAL DATTATRAY	Bsc.III	59
10	INAMDAR ALFIYA ANSAR	Bsc.III	60
11	JADHAV OMKAR DINESH	Bsc.III	61
12	KARANDE SONALI RAVINDRA	Bsc.I	62
13	KHARAT ABHIJIT RAJENDRA	Bsc.III	63
14	LOLE ASHWINI ANIL	Bsc.III	64
15	MORE SURAJ SANJAY	Bsc.III	65
16	MUJAWAR NAIM SALIM	Bsc.III	66
17	NALAVDE NITIN SURESH	Bsc.I	67
18	PISAL SNEHAL KESHAV	Bsc.III	68
19	POPHALE SONALI RAMCHANDRA	Bsc.III	69
20	SALUNKHE SAYALI AVINASH	Bsc.III	70
21	SANAS NISHIGANDHA SHIVAJI	Bsc.III	71
22	SHINDE SNEHEL RAMDAS	Bsc.III	72
23	SHINDE VISHAKHA DHANAJI	Bsc.III	73
24	YEWALE UMA CHANDRAKANT	Bsc.III	74
25	ZUDHARE MEHEJBIN DASHTAGIR	Bsc.I	75

*[Signature]*

Head

**Head**  
**Department of Botany**  
**Department of Botany**  
**Kisan Veer Mahavidyalaya,**  
**Wai 412803**



*[Signature]*

Principal

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

**Shivaji University, Kolhapur**  
**Department of Lifelong learning & Extension**  
**Name of Course – Medicinal and Aromatic Plants**  
**Name of College – Kisan Veer Mahavidyalaya, Wai**

**List of the Students 2019-20**

Sr. No.	Student Name	Qualification	Exam fee
1	SHINDE SNEHEL RAMDAS	Bsc.II	140/-
2	YEWALE UMA CHANDRAKANT	Bsc.II	140/-
3	HAJARE MINAL DATTATRAY	Bsc.II	140/-
4	GADHAVE PRAJAKTA BALU	Bsc.II	140/-
5	POPHALE SONALI RAMCHANDRA	Bsc.II	140/-
6	BHOSALE ASAVARI VIJAY	Bsc.II	140/-
7	GAIKWAD ANKITA BHANUDAS	Bsc.II	140/-
8	LOLE ASHWINI ANIL	Bsc.II	140/-
9	SANAS NISHIGANDHA SHIVAJI	Bsc.II	140/-
10	GAIKWAD VIKAS RAMDAS	Bsc.II	140/-
11	DHUMAL GITAL VITHAL	Bsc.II	140/-
12	JADHAV OMKAR DINESH	Bsc.II	140/-
13	CHAUDHARI DNYANESHWAR NAVNATH	Bsc.II	140/-
14	MUJAWAR NAIM SALIM	Bsc.II	140/-
15	SALUNKHE SAYALI AVINASH	Bsc.II	140/-
16	PISAL SNEHAL KESHAV	Bsc.II	140/-
17	MORE SURAJ SANJAY	Bsc.II	140/-
18	BABAR ANIKET VIJAY	Bsc.II	140/-
19	SHINDE VISHAKHA DHANAJI	Bsc.II	140/-
20	INAMDAR ALFIYA ANSAR	Bsc.II	140/-
21	KHARAT ABHIJIT RAJENDRA	Bsc.II	140/-
22	BABAR RUCHITA RAJENDRA	Bsc.II	140/-
23	NALAWDE NITIN SURESH	12 <sup>th</sup>	140/-
24	ZUNDHARE MEHEJBEEN DASHTAGEER	12 <sup>th</sup>	140/-
25	KARANDE SONALI RAVINDRA	12 <sup>th</sup>	140/-

*E. Ralekar*

Head

Department of Botany  
**Head**  
 Department of Botany  
 Kisan Veer Mahavidyalaya,  
 Wai 412883



*E. Ralekar*

Principal

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

# Medicinal and Aromatic Plants

## Syllabus

### Paper 1

Identification Classification medicinal and aromatic plants their constituents.

#### Unit 1:- Systematic study of medicinal and aromatic plants. (15 Marks)

- A) General account of medicinal and aromatic plants and their importance. (5)
- B) Classification and morphological study of following medicinal plants. (10)
  - 1. *Murus Alba*
  - 2. *Aloe Vera*
  - 3. *Adulated zeylanica*
  - 4. *Wathena somniferous*
  - 5. *Tinospora cord folia*
  - 6. *Helicities*

#### Unit 2:- Pharma cognostic studies of medicinal plants.

- A) Classification of crude drugs on the basis of their parts (stem, root, leaves, fruits)
- B) Macro and microscopically characters of crude canny fine medicinal plants locally available.
- C) Powder analysis and adulteration of any composite herbal drug.

### Paper -2

#### Unit 1:- Conservation and cultivation of medicinal and aromatic plants.

- 1) Method of conservation (Ex- situ and in-situ)
- 2) Convention methods in medicinal plants conservation.
  - a) Nursery techniques (Use of fertilizers water and disease management)
  - b) Seed bank.

#### Unit 2:- Advanced methods for medicinal and aromatic plants conservations.

- a) Tissue culture techniques
- b) Hardening and Greenhouse technology.



## Pracitcals

1. Morphological studies of medicinal and aromatic plants (As per syllabus)	5
2. Herbarium preparation	5
3. Morphological of RET medicinal plants (As per syllabus)	5
4. Micro chemical tests (Lipid, stare, protein, tannin, alkaloid and glycoside: any three) of any tree	5
5. Analysis of adulterant (Mustard and agrimony, morphological and chemical analysis	5
6. Nursery technuquies- Budding,Grafting and layering.	5
7. Medicinal plants cultivation (pot plantation). Pot filling, planting and repotting	5
8. Conservation of any too medicinal plants in garden.	5
9. Study tour- report to be submitted	5
10. Submission: Seeds of any two medicinal and aromatic plants.	5
Project report	10
Work experience	10

Prakash



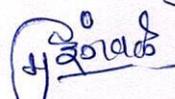
**Shivaji University, Kolhapur**  
**Department of Lifelong learning & Extension**  
**Name of Course – Medicinal and Aromatic Plants**  
**Name of College – Kisan Veer Mahavidyalaya, Wai**

**Presentee 2019-20**

Sr. No.	Student Name	Sept				Oct			Dec			
		2019				2019			2019			
		6	13	20	27	3	10	17	7.	14	21	28
1	SHINDE S. R.	P	P	P	P	P	P	P	P	P	P	P
2	YEWALE U. C.	P	P	P	P	P	P	P	P	P	P	P
3	HAJARE M. D.	P	P	P	P	P	P	P	P	P	P	P
4	GADHAVE p. B.	P	P	P	P	P	P	P	P	P	P	P
5	POPHALE S. R.	P	P	P	P	P	P	P	P	P	P	P
6	BHOSALE A. V.	P	P	P	P	P	P	P	P	P	P	P
7	GAIKWAD A.B.	P	P	P	P	P	P	P	P	P	P	P
8	LOLE A. A.	P	P	P	P	P	P	P	P	P	P	P
9	SANAS . S.	P	P	P	P	P	P	P	P	P	P	P
10	GAIKWAD V. R.	P	P	P	P	P	P	P	P	P	P	P
11	DHUMAL G. V.L	P	A	P	A	P	P	A	P	P	A	P
12	JADHAV O. D.	P	P	P	P	P	A	P	P	P	P	A
13	CHAUDHARI D. N.	P	P	P	P	P	P	P	P	P	P	P
14	MUJAWAR N. S.	P	A	P	A	P	P	A	P	A	P	P
15	SALUNKHE S. A.	P	P	P	A	P	P	A	P	P	P	P
16	PISAL S. K.	P	P	P	A	P	P	P	A	P	P	P
17	MORE S. S.	P	P	P	P	A	P	A	P	P	P	P
18	BABAR A. V.	P	P	A	P	P	P	P	P	P	P	P
19	SHINDE V. D.	P	P	A	P	P	P	P	P	P	P	P
20	INAMDAR A. A.	P	A	A	P	P	A	P	P	A	A	P
21	KHARAT A. R.	P	A	P	P	P	P	A	P	P	P	A
22	BABAR R. R.	P	P	P	P	P	P	P	P	P	P	P
23	NALAWDE N.S.	P	P	P	P	P	P	P	P	P	P	P
24	ZUNDHARE M. D.	P	P	P	P	P	P	P	P	P	P	P
25	KARANDE S. R	P	P	P	P	P	P	P	P	P	P	P

Dr. Mrs. M. V. Ingawale



  
 Head  
 Department of Botany  
 Kisan Veer Mahavidyalaya,  
 Wai 412803

**Shivaji University, Kolhapur**  
**Department of Lifelong learning & Extension**  
**Name of Course – Medicinal and Aromatic Plants**  
**Name of College – Kisan Veer Mahavidyalaya, Wai**

**Presentee 2019-20**

Sr. No.	Student Name	Sept Practical				Nov Theory				Dec Theory			
		7	14	21	28	7	14	21	28	6	13	20	27
1	SHINDE S. R.	P	P	P	P	P	P	P	P	P	P	P	P
2	YEWALE U. C.	P	P	P	P	P	P	P	P	P	P	P	P
3	HAJARE M. D.	P	P	P	P	P	P	P	P	P	P	P	P
4	GADHAVE p. B.	P	P	P	P	P	P	P	P	P	P	P	P
5	POPHALE S. R.	P	P	P	P	P	P	P	P	P	P	P	P
6	BHOSALE A. V.	P	P	P	P	P	P	P	P	P	P	P	P
7	GAIKWAD A.B.	P	P	P	P	P	P	P	P	P	P	P	P
8	LOLE A. A.	P	P	P	P	P	P	P	P	P	P	P	P
9	SANAS . S.	P	P	P	P	P	P	P	P	P	P	P	P
10	GAIKWAD V. R.	P	P	P	P	P	P	P	P	P	P	P	P
11	DHUMAL G. V.L	A	P	A	P	P	P	A	P	P	P	A	P
12	JADHAV O. D.	P	P	P	P	P	P	P	P	P	P	P	P
13	CHAUDHARI D. N.	P	P	P	P	P	P	P	P	P	P	P	P
14	MUJAWAR N. S.	A	P	P	P	A	P	P	P	P	P	P	P
15	SALUNKHE S. A.	A	P	A	P	P	A	P	P	P	A	P	P
16	PISAL S. K.	A	P	P	P	A	P	P	P	A	P	P	P
17	MORE S. S.	P	A	A	P	A	P	P	P	A	P	P	P
18	BABAR A. V.	P	A	A	P	P	A	P	P	A	P	P	P
19	SHINDE V. D.	P	P	P	P	P	P	P	P	P	A	P	P
20	INAMDAR A. A.	A	P	P	A	P	A	P	P	P	A	P	P
21	KHARAT A. R.	P	P	P	P	P	P	P	P	P	P	P	P
22	BABAR R. R.	P	P	P	P	P	P	P	P	P	P	P	P
23	NALAWDE N.S.	P	P	P	P	P	P	P	P	P	P	P	P
24	ZUNDHARE M. D.	P	P	P	P	P	P	P	P	P	P	P	P
25	KARANDE S. R	P	P	P	P	P	P	P	P	P	P	P	P

*B. Vaidya*  
 (Dr. R. R. Vaidya)

*R. R. Vaidya*

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



Department of Botany

Kisan Veer Mahavidyalaya, Wai

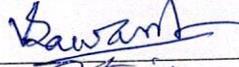
Date: 12/03/2020.

To,  
The Principal  
Kisan Veer Mahavidyalaya, Wai.

Sub: About appointment of Staff for Shivaji University  
Examination (2019-2020).

Sir,

With reference to above subject herewith I am appointing the staff Members for the Forthcoming Theory examination of Medicinal & Aromatic Plants(A Short -Term Course) Examination commencing from 12/03/2020 to 13/03/2020 as per guideline of Shivaji University, is as follows.

Sr.No.	Name of the Staff	Designation	Signature
1	Dr. S. R. Sawant	Sr. Supervisor	
2	Prof. K. H. Jadhav	Jr. Supervisor	

Please give the permission for the same.

Thanking You.

  
12/3/2020



Yours faithfully



(Dr. E.B. Bhalerao)  
Co- ordinator

Medicinal & Aromatic Plants Short- term Course

Copy To :- 1) Prof. Dr. S. R. Sawant

2) Prof. K. H. Jadhav

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Practical Examination in Medicinal and Aromatic Plants a**  
**Short- Term Course – 2019-2020**

Center – Kisan Veer Mahavidyalaya, Wai

Date : 10/03/2020

Time : 11.00 a.m.

Total Marks: 50

**Practical**

- Q.1) Identify and give botanical name, plant part used and uses of given medicinal Plant-A** 10
- Identification – 1
  - Botanical name -1
  - Plant Part Used -1
  - Diagram -2
  - Medicinal uses- 5
- Q.2) Demonstrate the Biochemical test assigned to you – B** 06
- Test Technique-4
  - Oral -2
- Q.3) Demonstrate the methods of asexual propagation – C** 06
- Technique -4
  - Oral -2
- Q.4) Identify and give botanical name and Morphology of any RET plant –D** 08
- Identification – 1
  - Botanical name -1
  - Diagram -2
  - Morphology description -4
- Q.5) Identification**
- a) Herbarium sheet- E 02
    - Identification – 1
    - Description - 1
  - b) Medicinal Plant– F 02
    - Identification – 1
    - Description - 1
  - c) Tissue Culture experiment– G 02
    - Identification – 1
    - Description - 1
  - d) Garden Implement– H 02
    - Identification – 1
    - Description - 1
  - e) Adultration Experiment– I 02
    - Identification – 1
    - Description - 1
- Q.6) a) Submission Tour report** 05
- b) Submission Seed of any two Medicinal /Aromatic plants** 05



**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Practical Examination in Medicinal and Aromatic Plants**  
**a Short- Term Course – 2019-2020**

Center – Kisan Veer Mahavidyalaya, Wai  
Time : 11.00 a.m.

Date : 10/03/2020  
Total Marks: 50

Practical

X

Y

Q.1) Medicinal plant – *Aloe Vera*      Medicinal plant – *Tinospora quadrifolia*

Q.2) Biochemical test – Protein      Biochemical test – starch

Q.3) Nursery technique- Grafting      Nursery technique- Layering

Q.4) Identify give Botanical name & Morphology of RET plant *Withania somnifera*

Q.5) Identification

A] E - Herbarium

B] F- Medicinal plant – *Adhatoda zeylanica*

C] G - tissue culture technique – M.S. medium

D] H - Garden shear

E] I - Adulteration – *Mustard* / *Argemone* seeds

Q.6] a] Tour report

b] Seed of any two Medicinal /Aromatic plants

Examiners :-

1) Dr.E.B.Bhalerao

2) Dr.M.V.Ingawale



**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Medicinal & Aromatic Plants Practical Examination**  
**March - 2020.**  
**Kisan Veer Mahavidyalaya, Wai**  
**Date : 10/03/2020**

Sr. No	Roll No.	Name	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Total
			10	6	6	8	10	10	50
1	51	BABAR ANIKET VIJAY	10	05	05	08	09	10	47
2	52	BABAR RUCHITA RAJENDRA	08	05	05	06	09	10	43
3	53	BHOSALE ASAVARI VIJAY	09	05	05	07	10	10	46
4	54	CHAUDHARI DNYANESHWAR	10	06	05	05	10	10	46
5	55	DHUMAL GITAL VITHAL	- A	B	S	E	N	T-	AB
6	56	GADHAVE PRAJAKTA BALU	10	05	05	08	09	10	47
7	57	GAIKWAD ANKITA BHANUDAS	10	06	05	07	09	10	47
8	58	GAIKWAD VIKAS RAMDAS	10	05	05	08	08	10	46
9	59	HAJARE MINAL DATTATRAY	10	05	05	08	09	10	47
10	60	INAMDAR ALFIYA ANSAR	08	04	06	06	08	10	42
11	61	JADHAV OMKAR DINESH	09	05	05	07	09	10	45
12	62	KARNDI SONALI RAVINDRA	09	05	05	07	10	10	46
13	63	KHARAT ABHIJIT RAJENDRA	10	05	05	07	08	10	45
14	64	LOLE ASHWINI ANIL	10	05	05	07	09	10	46
15	65	MORE SURAJ SANJAY	09	05	05	06	09	10	44
16	66	MUJAWAR NAIM SALIM	09	05	05	06	09	10	44
17	67	NALAVDE NITIN SURESH	A	B	S	E	N	T	AB
18	68	PISAL SNEHAL KESHAV	08	05	05	08	10	10	46
19	69	POPHALE SONALI RAMCHANDRA	10	06	05	06	10	10	47
20	70	SALUNKHE SAYALI AVINASH	A	B	S	E	N	T	AB
21	71	SANAS NISHIGANDHA SHIVAJI	10	06	05	08	09	10	48
22	72	SHINDE SNEHEL RAMDAS	A	B	S	E	N	T	AB
23	73	SHINDE VISHAKHA DHANAJI	10	06	06	07	08	10	47
24	74	YEWALE UMA CHANDRAKANT	09	05	05	08	10	10	48
25	75	ZUDHARE MEHEJBEEN DASHAGEER	08	05	05	08	10	10	46

Examinars :- 1) Dr. Bhalerao E. B.  
2) Dr. Ingawale M.V.

*E. Bhalerao*  
*M. V. Ingawale*



*E. Bhalerao*  
10/03/2020  
**HEAD**  
**DEPARTMENT OF BOTANY**  
Kisan Veer Mahavidyalaya, Wai

# SHIVAJI UNIVERSITY, KOLHAPUR

## Practical Examination in Medicinal and Aromatic Plants a Short- Term Course – 2019-2020 Students Attendants

Sr. No.	Student Name	Class	Roll No.	Sign.
1	BABAR ANIKET VIJAY	B.Sc.III	51	<i>Babar</i>
2	BABAR RUCHITA RAJENDRA	B.Sc.III	52	<i>R.R. Babar</i>
3	BHOSALE ASAVARI VIJAY	B.Sc.III	53	<i>Bhosale</i>
4	CHAUDHARI DNYANESHWAR NAVNATH	B.Sc.III	54	<i>Chaudhary</i>
5	DHUMAL GITAL VITHAL	B.Sc.III	55	<i>- AR -</i>
6	GADHAVE PRAJAKTA BALU	B.Sc.III	56	<i>Prajakta</i>
7	GAIKWAD ANKITA BHANUDAS	B.Sc.III	57	<i>A. G. Gaikewad</i>
8	GAIKWAD VIKAS RAMDAS	B.Sc.III	58	<i>Vikas</i>
9	HAJARE MINAL DATTATRAY	B.Sc.III	59	<i>Hajare</i>
10	INAMDAR ALFIYA ANSAR	B.Sc.III	60	<i>Alfiya</i>
11	JADHAV OMKAR DINESH	B.Sc.III	61	<i>Jadhav</i>
12	KARNDE SONALI RAVINDRA	B.Sc.III	62	<i>S. Karande</i>
13	KHARAT ABHIJIT RAJENDRA	B.Sc.III	63	<i>Kharat</i>
14	LOLE ASHWINI ANIL	B.Sc.III	64	<i>Lole</i>
15	MORE SURAJ SANJAY	B.Sc.III	65	<i>More</i>
16	MUJAWAR NAIM SALIM	B.Sc.III	66	<i>Mujawar</i>
17	NALAVDE NITIN SURESH	B.Sc.III	67	<i>- AB -</i>
18	PISAL SNEHAL KESHAV	B.Sc.III	68	<i>Pisal</i>
19	POPHALE SONALI RAMCHANDRA	B.Sc.III	69	<i>Pophale</i>
20	SALUNKHE SAYALI AVINASH	B.Sc.III	70	<i>- AB -</i>
21	SANAS NISHIGANDHA SHIVAJI	B.Sc.III	71	<i>Sanas</i>
22	SHINDE SNEHEL RAMDAS	B.Sc.III	72	<i>- AB -</i>
23	SHINDE VISHAKHA DHANAJI	B.Sc.III	73	<i>Shinde</i>
24	YEWALE UMA CHANDRAKANT	B.Sc.III	74	<i>Yewale</i>
25	ZUDHARE MEHEJBEEN DASHAGEER	B.Sc.III	75	<i>Zudhare</i>

Examinars :-

1) Dr.E.B.Bhalerao

2)Dr.M.V.Ingawale



# SHIVAJI UNIVERSITY, KOLHAPUR

## Practical Examination in Medicinal and Aromatic Plants a Short- Term Course – 2019-2020 Students Attendants

Sr. No.	Student Name	Class	Roll No.	Sign.
1	BABAR ANIKET VIJAY	B.Sc.III	51	
2	BABAR RUCHITA RAJENDRA	B.Sc.III	52	
3	BHOSALE ASAVARI VIJAY	B.Sc.III	53	
4	CHAUDHARI DNYANESHWAR NAVNATH	B.Sc.III	54	
5	DHUMAL GITAL VITHAL	B.Sc.III	55	
6	GADHAVE PRAJAKTA BALU	B.Sc.III	56	
7	GAIKWAD ANKITA BHANUDAS	B.Sc.III	57	
8	GAIKWAD VIKAS RAMDAS	B.Sc.III	58	
9	HAJARE MINAL DATTATRAY	B.Sc.III	59	
10	INAMDAR ALFIYA ANSAR	B.Sc.III	60	
11	JADHAV OMKAR DINESH	B.Sc.III	61	
12	KARNDE SONALI RAVINDRA	B.Sc.III	62	
13	KHARAT ABHIJIT RAJENDRA	B.Sc.III	63	
14	LOLE ASHWINI ANIL	B.Sc.III	64	
15	MORE SURAJ SANJAY	B.Sc.III	65	
16	MUJAWAR NAIM SALIM	B.Sc.III	66	
17	NALAVDE NITIN SURESH	B.Sc.III	67	
18	PISAL SNEHAL KESHAV	B.Sc.III	68	
19	POPHALE SONALI RAMCHANDRA	B.Sc.III	69	
20	SALUNKHE SAYALI AVINASH	B.Sc.III	70	
21	SANAS NISHIGANDHA SHIVAJI	B.Sc.III	71	
22	SHINDE SNEHEL RAMDAS	B.Sc.III	72	
23	SHINDE VISHAKHA DHANAJI	B.Sc.III	73	
24	YEWALE UMA CHANDRAKANT	B.Sc.III	74	
25	ZUDHARE MEHEJBEEN DASHAGEER	B.Sc.III	75	

Examinars :-

1) Dr.E.B.Bhalerao

2) Dr.M.V.Ingawale



**Shivaji University, Kolhapur**  
**Department of Lifelong Learning and Extension**  
**Medicinal and Aromatic Plants Introduction**  
**Final Examination – March – 2020**

**Paper - 1**

Date: 12/03/2020

Time: 11.00 am to 01.00 pm

Day: Thursday

Marks: 50

- Instruction: 1. All questions are compulsory.**  
**2. Figures in right indicate full marks.**  
**3. Draw neat and labeled diagrams wherever necessary.**

**Q.1. Rewrite following sentences using correct alternative**

10

1. Adathoda zelannica mainly used for .....  
a) Cough b) Malaria c) Fever d) Piles
2. The Leaves of Aloe vera are .....  
a) Thick b) Fleshy c) Serrated margin d) All of the above
3. Aloe vera is .....  
a) Aromatic Plant b) Medicinal Plant c) Climbers d) None of the above
4. Botanical name of Ashwagandha is .....  
a) Morus alba b) Adhatoda vasica c) Withania somnifera d) Tinospora cordicolia
5. Which of the following plant comes under solanaceae family?  
a) Aloe vera b) Withania somnifera c) Morus alba d) Tinospora cordicolia
6. The adulteration is mainly encouraged by traders is called .....  
a) Deliberate adulteration b) In-deliberate adulteration c) Sophistication d) None of the above
7. Which of the following is climbing shrub with several elongated twining branches?  
a) Aloe vera b) Withania somnifera c) Morus alba d) Tinospora cordifolia
8. The botanical name of Gulvel is .....  
a) Morus Alba b) Tinospora cordifolia c) Withania somnifera d) Adhatoda vasica
9. Adulterants obtained in turmeric powder is .....  
a) Daw dust b) Rice flour c) Chalk powder d) All of the above
10. .... Part of the Ashwagandha is used to treat arthritic.  
a) Leaves b) Root c) Bark d) Flowers

**Q.2. Write any two of the following**

20

1. Give botanical name, Chemical constituents and parts use for medicinal purposes of  
i) Ashwagandha ii) Aloe vera

**Q.3. Write a short note on any four of the following.**

20

- a) Tinospora cordifolia b) Reasons of adulteration
- c) Inferiority adulteration and Spoilage adulteration d) Medicinal uses of Aloe vera
- e) Classification of crude drugs f) Adulterants in turmeric powder



**Shivaji University, Kolhapur**  
**Department of Lifelong Learning and Extension**  
**Medicinal and Aromatic Plants Introduction**  
**Final Examination – March – 2020**  
**Paper - 2**

Date: 13/03/2020

Time: 11.00 am to 01.00 pm

Day: Friday

Marks: 50

- Instruction: 1. All questions are compulsory.**  
**2. Figures in right indicate full marks.**  
**3. Draw neat and labeled diagrams wherever necessary.**

**Q.1. Rewrite following sentences using correct alternative**

10

1. The advanced method for aromatic plant conservation is .....  
a) Mass selection b) Seed bank c) Tissue culture d) None of the above
2. The most common method for budding in practice is .....  
a) Patch budding b) Scion budding c) 'T' budding d) None of the above
3. Tissue culture means .....  
a) Callus culture b) Embryo culture c) Protoplast culture d) All of the above
4. In paddy rice field the nitrogen fixation is carried out by ..... algae.  
a) Red b) Blue c) Blue-green d) Green
5. .... Is common weed plant in Maharashtra which is imported along with Meal from America.  
a) Parthenium b) Cynodon c) Vinca rosea d) Striga
6. The Storage of seeds to preserve genetic diversity is called as .....  
a) Seed bank b) Seed collection c) Seed storage d) None of the above
7. .... is consequently the basic need of horticulture.  
a) Seed bank b) Fertilizer c) Nursery technique d) Tissue culture technique
8. The process of protecting endangered species as variety of breed of plants or animals outside its natural habitat is called as .....  
a) Ex-situ conservation b) In-situ conservation c) Tissue culture d) Traditional cultivation
9. In tissue culture single cell produce whole plant is called as .....  
a) Totipotency b) Meristem culture c) Callus d) None of the above
10. The technique of providing favorable environment condition to the plant is called .....  
a) Traditional farming b) Green house technology c) IPM d) Robotic agricultural technology

**Q.2. Write any two of the following**

20

- a) Green house Technology
- b) Tissue culture technique
- c) Nursery technique

**Q.3. Write a short note on any four of the following.**

20

- a) Seed bank b) Ex-situ and in-situ conservation of plants
- c) Bio fertilizers d) Techniques of Herbarium plants
- e) Symbiotic association in paddy field f) IPM



■ Shri. Prataprao Bhosale - President & Trustee  
Janata Shikshan Sanstha, Wai

■ Shri. Shankarrao Gadhave - Vice President & Trustee  
Janata Shikshan Sanstha, Wai

Janata Shikshan Sanstha's

**KISAN VEER MAHAVIDYALAYA, WAI, (Dist. Satara) Maharashtra Pin: 412803**

Affiliated to Shivaji University, Kolhapur, S. U. Affl. T-2-28741

NAAC Accredited Status: B<sup>+</sup> with CGPA 2.66

जनता शिक्षण संस्थेचे,

**किसन वीर महाविद्यालय, वाई, (जि. सातारा) महाराष्ट्र पिन : ४१२८०३**

शिवाजी विद्यापीठ, कोल्हापूर शि. वि. सं. टी -२-२८७४१ संलग्नीत

नेक अधिस्विकृती : 'बी' सीजीपीए २.६६

Website: [kvmwai.edu.in](http://kvmwai.edu.in)

E-mail: [wai161.cl@unishivaji.ac.in](mailto:wai161.cl@unishivaji.ac.in)

[oskvmwai@rediffmail.com](mailto:oskvmwai@rediffmail.com)

Incharge Principal

**Prof. (Dr.) I. F. Pailwan**

M.Sc. Ph.D.,

Ph. (Off./Fax) 02167-220130

Principal : 02167-221972



**Kisan Mahadeo Veer**

Founder President

Janata Shikshan Sanstha, Wai

प्रभारी प्राचार्य

**प्रो. (डॉ.) आय. एफ. पैलवान**

एम्.एस्सी. पीएच.डी.

दूरध्वनी : (कार्या./फॅक्स) ०२१६७-२२०१३०

प्राचार्य - ०२१६७-२२१९७२

Ref.: 47-AIB/172  
संदर्भ :

Date: 14.03.2020  
दिनांक :

To,  
The Director/Head,  
Department of Lifelong Learning and Extension,  
Shivaji University, Kolhapur 416004.

Subject:- About submission of Practical Mark List, Theory Papers  
and other stationary.

R/Sir,

As per your circular – 40/1347 Dated 12/2/2020, the theory examination of paper I & II was conducted on scheduled date & time. Practical examination was conducted on 10/03/2020. I am here with submitting Mark Lists of practical examination & Internal evaluation. Also submitting Theory papers of - I & II of Medicinal & aromatic plants for evaluation and remaining stationary.

Kindly accept the same. (short term course)

Thanking You.



Yours Faithfully,

Principal

The numbers of returned blank  
answer papers -

89, 95, 97, 102, 115, 7785, 7794 = 7

Received

आजीवन अध्ययन विस्तार विभाग  
शिवाजी विद्यापीठ, कोल्हापूर

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Medicinal & Aromatic Plants ( a Short - Term Certificate Course)**  
**March - 2020.**  
**Statement of Marks**

Sr. No	Exam. No.	Student Name	Practical Marks (Out of 50)	Internal Experience (Out of 20)	Project Report (Out of 10)	Internal Evaluation (Out of 20)	Total (Out of 100)	
1	51	BABAR ANIKET VIJAY	47	18	10	17	92	
2	52	BABAR RUCHITA RAJENDRA	43	12	10	17	82	
3	53	BHOSALE ASAVARI VIJAY	46	18	10	18	92	
4	54	CHAUDHARI DNYANESHWAR NAVNATH	46	18	10	18	92	
5	55	DHUMAL GITAL VITHAL	Absent					
6	56	GADHAVE PRAJAKTA BALU	47	18	10	18	93	
7	57	GAIKWAD ANKITA BHANUDAS	47	19	10	17	93	
8	58	GAIKWAD VIKAS RAMDAS	46	17	10	18	91	
9	59	HAJARE MINAL DATTATRAY	47	18	10	17	92	
10	60	INAMDAR ALFIYA ANSAR	42	16	10	16	86	
11	61	JADHAV OMKAR DINESH	45	18	10	17	90	
12	62	KARDE SONALI RAVINDRA	46	19	10	18	93	
13	63	KHARAT ABHIJIT RAJENDRA	45	17	10	18	90	
14	64	LOLE ASHWINI ANIL	46	19	10	17	92	
15	65	MORE SURAJ SANJAY	44	18	10	18	90	
16	66	MUJAWAR NAIM SALIM	44	19	10	18	91	
17	67	NALAVDE NITIN SURESH	45	18	10	17	90	
18	68	PISAL SNEHAL KESHAV	46	17	10	17	90	
19	69	POPHALE SONALI RAMCHANDRA	47	19	10	19	95	
20	70	SALUNKHE SAYALI AVINASH	Absent					
21	71	SANAS NISHIGANDHA SHIVAJI	48	19	10	19	96	
22	72	SHINDE SNEHEL RAMDAS	35	12	10	18	75	
23	73	SHINDE VISHAKHA DHANAJI	47	19	10	18	94	
24	74	YEWALE UMA CHANDRAKANT	48	19	10	19	96	
25	75	ZUDHARE MEHEJBEEN DASHAGEER	46	19	10	18	93	

Examiners : - 1) Dr. E. B. Bhalerao  
 2) Dr. M. V. Ingawale



*E. Bhalerao*  
**HEAD**  
**DEPARTMENT OF BOTANY**  
**Kisan Veer Mahavidyalaya, Wai**

SHIVAJI UNIVERSITY, KOLHAPUR

Medicinal & Aromatic Plants (short -term course) Practical Examination

March 2020

Centre: Kisan Veer Mahavidyalaya, Wai (Dist. Satara)

Subject: Medicinal & Aromatic Plants (short -term course)

REPORT OF ATTENDANCE OF CANDIDATES AT THE PRACTICAL EXAMINATIONS

Examiners Names and College

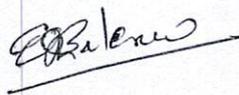
1. Dr. Bhalerao E. B. (Kisan Veer Mahavidyalaya, Wai)

2. Dr. Ingawale M. V. (Kisan Veer Mahavidyalaya, Wai)

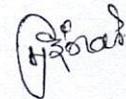
Batch No. Date and Time of the Practical Examination	Total No. of candidates called for examination	Total No. of candidates present at the examination on the dates allotted to them	Seat Nos. of candidates examined out of turn	Seat Nos. of candidates who were absent
Batch - I 10/03/2020 11.00 am onwards	25	23	Nil	55, 70

Examiner's Signature

1) Dr. Bhalerao E. B.



2) Dr. Ingawale M. V.



**SHIVAJI UNIVERSITY, KOLHAPUR**  
**Medicinal & Aromatic Plants Practical Examination**  
**March - 2020.**  
**Kisan Veer Mahavidyalaya, Wai**  
**Date : 10/03/2020**

Sr. No	Exam. No.	Student Name	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Total	
			10	6	6	8	10	10	50	
1	51	BABAR ANIKET VIJAY	10	5	5	8	9	10	47	
2	52	BABAR RUCHITA RAJENDRA	8	5	5	6	9	10	43	
3	53	BHOSALE ASAVARI VIJAY	9	5	5	7	10	10	46	
4	54	CHAUDHARI DNYANESHWAR NAVNATH	10	6	5	5	10	10	46	
5	55	DHUMAL GITAL VITHAL	Absent							
6	56	GADHAVE PRAJAKTA BALU	10	5	5	8	9	10	47	
7	57	GAIKWAD ANKITA BHANUDAS	10	6	5	7	9	10	47	
8	58	GAIKWAD VIKAS RAMDAS	10	5	5	8	8	10	46	
9	59	HAJARE MINAL DATTATRAY	10	5	5	8	9	10	47	
10	60	INAMDAR ALFIYA ANSAR	8	4	6	6	8	10	42	
11	61	JADHAV OMKAR DINESH	9	5	5	7	9	10	45	
12	62	KARNDE SONALI RAVINDRA	9	5	5	7	10	10	46	
13	63	KHARAT ABHIJIT RAJENDRA	10	5	5	7	10	10	45	
14	64	LOLE ASHWINI ANIL	10	5	5	7	9	10	46	
15	65	MORE SURAJ SANJAY	9	5	5	6	9	10	44	
16	66	MUJAWAR NAIM SALIM	9	5	5	6	9	10	44	
17	67	NALAVDE NITIN SURESH	5	5	5	5	10	10	45	
18	68	PISAL SNEHAL KESHAV	8	5	5	8	10	10	46	
19	69	POPHALE SONALI RAMCHANDRA	10	6	5	6	10	10	47	
20	70	SALUNKHE SAYALI AVINASH	Absent							
21	71	SANAS NISHIGANDHA SHIVAJI	10	6	5	8	9	10	48	
22	72	SHINDE SNEHEL RAMDAS	5	5	5	5	5	10	35	
23	73	SHINDE VISHAKHA DHANAJI	10	6	6	7	8	10	47	
24	74	YEWALE UMA CHANDRAKANT	10	6	5	8	10	10	48	
25	75	ZUDHARE MEHEJBEEN DASHAGEER	8	5	5	8	10	10	46	

Examiners : - 1) Dr. E. B. Bhalareo  
2) Dr. M. V. Ingawale

*E. B. Bhalareo*  
*M. V. Ingawale*



*E. B. Bhalareo*  
Principal  
Kisan Veer Mahavidyalaya, Wai  
Tal. Wai, Dist. Satara

Shivaji University, Kolhapur  
Department of Lifelong Learning and Extension



Estd : 1962  
NAAC 'A' Grade

*❧* Certificate *❧*

This is to certify that Shri / Smt. *Babae Aniket Vijay*

has attended the certificate course in *Introduction to Medicinal  
& Aromatic Plants*

under the Continuing Education Programme from *Sept. 2019* to *Feb. 2020*

and completed the course satisfactorily in *A+* grade. The course was conducted in

Collaboration with *Kisan Veeer Mahavidyalaya, Wai*



*AMN*  
I/C. Director

7 APR 2021

# LOCALITY-SURUR

As a part of our syllabus Visit to Medicinal and Aromatic Plants was arranged to Surur on 14/02/2020 by Department of Botany, Kisan Veer Mahavidyalaya, Wai.

These are the following medicinal plants:-

Name of Plant	Common name
1) <i>Abelmoschus moschatus</i>	kaskari bhendi
2) <i>Accacia catechu</i>	khair
3) <i>Auenchoa corombola</i>	Kamrakh
4) <i>Acacia rugata</i>	Shikekai
5) <i>Abrus precatorins</i>	Gunjwel
6) <i>Anacyclus pyrethrum</i>	Akarkara
7) <i>Bacopa monera</i>	Bramhi
8) <i>Bryophyllum</i>	Panaphuti
9) <i>Borauia dephysa</i>	Purnava
10) <i>Bicsa orelina</i>	Kunku
11) <i>Bassia latiaolia</i>	Mahua
12) <i>Commiphora wightii</i>	Gugul
13) <i>Cyclea peltate</i>	Patha
14) <i>Careya arborea</i>	Kumbha
15) <i>Celastrus paniculatus</i>	Malkangoni
16) <i>Cynadon dactylon</i>	Ganpati patri
17) <i>Cinnamomum camphora</i>	Tamalpatra
18) <i>Elaeocarpus ganitrus</i>	Sonmukhi
19) <i>Elephant criper</i>	Vidas
20) <i>Gardenia jasminoids</i>	Ananta
21) <i>Grewia tilifolia</i>	Dhaman
22) <i>Grewia asiatica</i>	Falsa
23) <i>Garcinia indica</i>	Kokam
24) <i>Oscimum sanctum</i>	Tulasi
25) <i>Vitex negunda</i>	Kali nirgudi
26) <i>Terminalia arjuna</i>	Arjun
27) <i>Rawolfia serpentine</i>	Sapagandha
28) <i>Premna integrifolia</i>	Agnimantha
29) <i>Baliospermum montnum</i>	Danti
30) <i>Gmelina arborea</i>	Shivan
31) <i>Sida rhombifolia</i>	Sahadevi
32) <i>Nyctanthus arbor</i>	Parijatak



- 33) *Cetronela*
- 34) *Lawsonia inermis*
- 35) *Hibiscus ruscasinensis*
- 36) *Emblica ribes*
- 37) *Maranta arunicacea*
- 38) *Mesua ferrca*
- 39) *Riper lubaba*
- 40) *Piper longum*
- 41) *Tecomella undulate*
- 42) *Impatiens glandulifolia*
- 43) *Menthe aruensis*
- 44) *Morus alba*
- 45) *Eucalyptus*
- 46) *Thespesia populaea*
- 47) *Mussaenda triondosa*
- 48) *Symplocasrace masus*
- 49) *Firmiana calorata*
- 50) *Pandanus amaryllifolius*
- 51) *Phylanthus urimeria*
- 52) *Tinospora cordifolia*
- 53) *Tylophora indica*
- 54) *Uachellia nilotica*

Gavaticaha  
 Mehandi  
 Jasvand  
 Vavding  
 Araruth  
 Nagkeshar  
 Kababchini  
 Pimpali  
 Rkta rohida  
 Bashing  
 Pudina  
 Tutu  
 Nilgiri  
 Bhend  
 Jangli musanda  
 Lodhra  
 Koshi  
 Anapurna  
 Bhuiavli  
 Gulvel  
 Damvel  
 Yedi babhul

We have also observed various types of Medicinal and Aromatic plants from locality of Surur. We are thankful to Dr. E.B. Bhalerao, Head, Dept of Botany and Asst. Prof. P. B. Shelar for their useful guidance regarding the different medicinal uses.



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