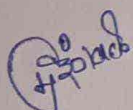


Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Botany
Course Report – 2019- 20

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 4th 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.

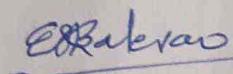
The time table was displaced on the departmental notice board. Total 25 students were enrolled for the course. Regular lectures and practicals were conducted according to the time table. As a part of our syllabus visit to Medicinal and Aromatic Plants was arranged to Surur on 14/02/2020 by Department 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



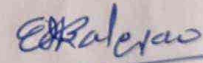
Dr. E. B. Bhalerao

Head Dept of Botany

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 enrol their names in the department of Botany towards Mrs. Pol madam. After successful completion of course, passed students will get University certificate.



Dr. E. B. Bhalerao

Head

Department of Botany

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

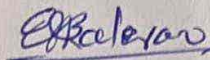
To,
The Principal
Kisan Veer Mahavidyalaya, Wai

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

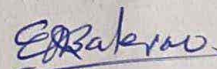
Department of Botany

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 1 Clock 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.



Head Department of Botany

Dr. E. B. Bhalerao



Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai, Dist: Satara (M.S.)

(Affiliated to Shivaji University, Kolhapur)
NAAC Grade : B+ (CGPA-2.66)



Department of Botany

CERTIFICATE COURSE IN MEDICINAL AND AROMATIC PLANTS

IN COLLABORATION WITH

Department of Continuing Education and Extension Work Shivaji University, Kolhapur

Eligibility : 10th (pass) Any Discipline

Medium of Instruction : English

Intake Capacity:

Min- 10 Max- 25

Duration : 6 Months

Fees: Rs. 1250/-

Syllabus:

Duration of course- 120 hrs
Theory - 100 marks (60Hrs)
Practical- 100 Marks 60 Hrs
Training - 20 Marks Min. 5 days

6 Month- Course Work

Theory - Paper I & II -100 Marks
Practical - 50 Marks
Internal Experience - 20 Marks
Project Report -10 Marks

Internal Evaluation

Home Assignment - 5 Marks
Periodical Test - 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 medicinal and aromatic plants.
2. To conserve rare medicinal species
3. To discuss problems in production and marketing .
4. To know the use of medicinal and aromatic plants in medicine, nutraceuticals, cosmetics, perfumery industry and Indian system of medicine.
5. To Study Medicinal uses of plants
6. To Study various conservation methods
7. Identification of Medicinal Plant

Course outcome

Knowledge skill:

- Develop an understanding on constraints and problems in production and marketing of medicinal and aromatic plants.

Intellectual skills

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

Professional & practical skills

- To establish value addition ventures, botanical extracts, 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. R.R. Vaidya - 9370187486

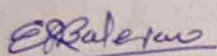
Dr. M.V. Ingawale - 9922393896

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

Short term course- Aromatics and Medicinal Plants

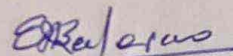
Sr no.	Month	Thursday(Lecture) 1.30p.m – 2.30p.m	Friday (Lecture) 1.30p.m –2.30p.m	Saturday(Practical) 1.30p.m -3.30p.m
1	September	EBB	MVI	RRV
2	October	MVI	EEB	AAM
3	November	RRV	ADJ	PBS
4	December	ADJ	RRV	MVI
5	January	PBS	AAM	EEB
6	February	AAM	PBS	ADJ

Note - Attendance of student is compulsory



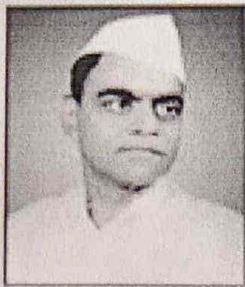
HEAD

DEPARTMENT OF BOTANY



PRINCIPAL

KISAN VEER MAHAVIDYALAYA, WAI.



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

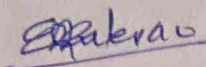
Dr. E. B. Bhalerao

Head Department of Botany

Mob. No. 9545585927

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



Head

Department of Botany

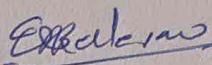


Principal

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

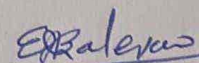
List of the Students 2019-20

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 SHIVAIJ	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 th	140/-
24	ZUNDHARE MEHEJBEEN DASHTAGEER	12 th	140/-
25	KARANDE SONALI RAVINDRA	12 th	140/-



Head

Department of Botany



Principal

Kisan Veer Mahavidyalaya, Wai

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

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.

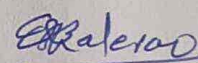
These are the following medicinal plants:-

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 precatorius</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*

- Gavatichaha
- 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.



Dr. E.B. Bhalerao.

Head, Dept of Botany,

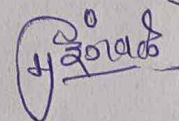
K. V. M. Wai

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



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	P	A
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

R. R. Vaidya
 (Dr. R. R. Vaidya)

Shivaji University, Kolhapur

Department of Lifelong Learning and Extension



Estd : 1962
NAAC 'A' Grade

Certificate

This is to certify that Shri / Smt. *Chaudhari Dnyaneshwar*
Navnath

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 Vees Mahavidyalaya, Wai*

[Signature]
I/C. Director

17 APR 2021