

Rayat Shikshan Sanstha's,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli).

Department of Botany

Value Added Course
In

Horticulture Technology
2021-22

Rayat Shikshan Sanstha's,
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar Burli).

Department of Botany

Notice

Date: 01/04/2022

All the students of B.Sc. II (Botany) are hereby informed that the theory and practical lectures of Value Added Course in Horticulture Technology as per time-table are going to start from 04/04/2022. It is compulsory to all who have enrolled for this course to attend the theory and practical lectures and put your attendance.



Head of Dept.
Department of Botany
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)



Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.

Rayat Shikshan Sanstha's,
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli).

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Value Added Course in

Horticulture Technology 2021-22

Time Table

Period Number	Time	Day	
		Monday	Tuesday
1.	10:10 to 11:00	VSS	SWW
2.	11:00 to 2:30	SWW	VSS

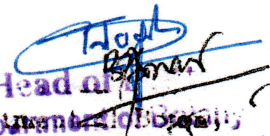

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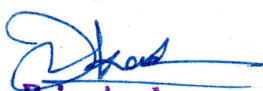

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VALUE ADDED COURSE IN
HORTICULTURE TECHNOLOGY
SYLLABUS

1. Introduction (2L)
 (i) Definition, (ii) Scope and importance (iii) Export potential
2. Branches of horticulture (2L)
 Definition and description of the following branches:-
 i) Pomoculture (ii) Olericulture (iii) Floriculture (iv) Ornamental and landscape gardening
 (v) Preservation of Fruits and Vegetables.
3. Propagation of Horticultural plants: (12L)
 i) Sexual (Seed) Propagation: Merits and demerits, Selection of seeds, Pre-germination treatment. Sowing of seeds. Transplanting of seedling.
 ii) Asexual (Vegetative) Propagation:
 a) Natural: Runner, Corm, Suckers, Bulb, Tubers, Bulbils, Stolon, Offset.
 b) Artificial Propagation: Merits and demerits
 Cutting: Definition, Advantages and disadvantages. Types: i) Stem cutting - Herbaceous, Semi-hard wood, hard-wood and soft- wood.
 ii) Root cutting iii) Leaf cutting iv) Leaf bud cutting
 Layering: Definition, Advantages, Factors affecting for root formation, Special treatment for root formation Types: i) Simple ii) Tip iii) Serpentine iv) Trench v) Mound
 vi) Air layering and Gooty
 Grafting: Definition, Advantages, Limitation stock, Scion incompatibility, Root stock - Scion relationship, Raising of root stocks, Selection scion.
 Types of Grafting: i) Whip ii) Tongue iii) Side iv) Approach v) Stone.
 Budding: Types: i) 'T' or shield budding, ii) Patch budding
4. Training and Pruning (3L)
 Definition, difference, Objectives, Advantages
 Methods of Training: 1) Central leader system 2) Open centre system 3) Modified leader
 Methods of pruning: 1) Heading back 2) Thinning out
5. Special horticultural practices: (2L)
 a) Ringing b) Girdling c) Notching d) Bending e) Root pruning and Exposure
6. Bahar treatment: (3L)
 Definition and Types: a) Ambia bahar b) Mrig bahar c) Hasta bahar
 Steps in Bahar treatment:-a) Withholding of water b) Cultivation of land c) Manuring
 d) Resumption of watering e) Choice of bahar
7. Commercial varieties and cultivation Practices of Grape, Tomato and Rose. (14L)
 With reference to climate, soil, planting, intercultural operations, manures and fertilizers, irrigation, pest and diseases and their control; Harvesting, yield and Marketing, uses and by products.
7. General Principles, methods of fruits and vegetables preservations. (2L)
 Introduction, principles of preservations, methods of preservations of fruits and vegetables, temporary preservation and permanent preservation, fermentation, canning and bottling.


 Head of Department
 S. C. College, Ramanandnagar
 Ramanandnagar (Burli)




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Department of Botany

Value Added Course in Horticulture Technology : 2021-22

Programme Outcomes

After successful completion of this course, students will able to,

1. Demonstrate a working knowledge and appreciation of the diversity of plants, their culture and utilization.
2. Apply horticultural principles to the successful growth and production of horticultural plants.
3. Demonstrate the knowledge, skills and attributes to be successful contributing members of the horticulture profession.
4. Quantify economic importance of plants in managed ecosystems and the impact of horticultural crops in food systems.


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Department of Botany

**Value Added Course in
Horticulture Technology : 2021-22**

List of Students

Sr. No.	Name of Student
1.	AIWALE ARATI SATISH
2.	ARBUNE RUTUJA VINAYAK
3.	CHAVAN AISHWARYA SHRIKANT
4.	CHAVAN ARATI SANTOSH
5.	JADHAV NETRA SANGRAM
6.	JADHAV PRATIKSHA CHANDRAKANT
7.	JADHAV VAISHNAVI VASANT
8.	MANE VAISHNAVI PRAVIN
9.	MOHITE SAKSHI MAHADEV
10.	NALAWADE SANIKA VIJAY
11.	MASKE SHUBHAM JAGANNATH
12.	MOHITE AJAY ASHOK
13.	NIKAM TUSHAR RAJENDRA
14.	PATIL ABHISHEK ANIL
15.	YEWARE ANIKET DATTATRAY
Total=15	Male= 05 Female=10


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Value Added Course in
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Attendance

Sr. No.	Name of Student	6/10/21	9/10/21	12/10/21	15/10/21	18/10/21	22/10/21	25/10/21	28/10/21	31/10/21	3/11/21	6/11/21	9/11/21	12/11/21	15/11/21	18/11/21	22/11/21	25/11/21	28/11/21	30/11/21
1.	AIWALE ARATI SATISH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2.	ARBUNE RUTUJA VINAYAK	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3.	CHAVAN AISHWARYA SHRIKANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4.	CHAVAN ARATI SANTOSH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5.	JADHAV NETRA SANGRAM	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6.	JADHAV PRATIKSHA CHANDRAKANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7.	JADHAV VAISHNAVI VASANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8.	MANE VAISHNAVI PRAVIN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9.	MOHITE SAKSHI MAHADEV	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10.	NALAWADE SANIKA VIJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
11.	MASKE SHUBHAM JAGANNATH	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12.	MOHITE AJAY ASHOK	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
13.	NIKAM TUSHAR RAJENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14.	PATIL ABHISHEK ANIL	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15.	YEWARE ANIKET DATTATRAY	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB

Head

Department of Botany



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Horticulture Technology : 2021-22**

Marklist

Sr. No.	Name of Student	Marks (Out of 50)
1.	AIWALE ARATI SATISH	40
2.	ARBUNE RUTUJA VINAYAK	44
3.	CHAVAN AISHWARYA SHRIKANT	46
4.	CHAVAN ARATI SANTOSH	38
5.	JADHAV NETRA SANGRAM	40
6.	JADHAV PRATIKSHA CHANDRAKANT	44
7.	JADHAV VAISHNAVI VASANT	40
8.	MANE VAISHNAVI PRAVIN	40
9.	MOHITE SAKSHI MAHADEV	42
10.	NALAWADE SANIKA VIJAY	40
11.	MASKE SHUBHAM JAGANNATH	38
12.	MOHITE AJAY ASHOK	34
13.	NIKAM TUSHAR RAJENDRA	42
14.	PATIL ABHISHEK ANIL	40
15.	YEWARE ANIKET DATTATRAY	38


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Rayat Shikshan Sanstha's.

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burla),
Tal- Palus, Dist- Sangli, 416308



Affiliated to Shivaji University, Kolhapur

CERTIFICATE

This is to certify that Mr./Miss. _____ of B.Sc.
II, Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burla), has
successfully completed Value Added Course in 'Horticulture Technology' run
by Department of Botany (from 04/04/2022 to 14/06/2022) for the academic
year 2021-22.

Course Coordinator



Principal

Rayat Shikshan Sanstha's,
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli).

Department of Botany

Value Added Course in **HORTICULTURE TECHNOLOGY**

Annual Report 2021-22

DATE: 15/05/2022

Department of Botany is consistently engaged in running Value Added Course in Horticulture Technology. For the said course there were total 15 students from B.Sc. Part II have enrolled. To acquire practical knowledge of this course, enrolled students visited the Krishna Nursery at Palus. With the help of knowledge acquired from this course, students will be able to plant their own small scale industry.



Students imbibing the Horticulture Techniques from Nursery Owner.



Students at Faculty at Krishna Nursery.


(Miss. S.W. Wagh)
Course Co-ordinator




Principal,
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