

**Rayat Shikshan Sanstha's**

**Arts, Science and Commerce College, Ramanandnagar (Burli)**

**Department of Botany**

**Value added Course**

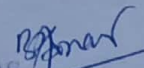
**On**


**Horticulture Technology**

**2019 – 2020**

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. (12L)
3. **Propagation of Horticultural plants:**  
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 (3L)
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 (2L)
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  
Department of Botany,  
S. C. College, Ramannadnagar

  
**Principal**  
Arts, Science & Commerce College,  
Ramannadnagar (Burli)

Rayat Shikshan Sanstha's  
**Arts, Science and Commerce College, Ramanandnagar (Burli).**  
**Department of Botany**  
**Course- Horticulture Technique 2019-20**  
**List of Students**

Sr. No.	Name of the Student
1.	BABAR AMRUTA ANKUSH
2.	BABAR ANIKET ANKUSH
3.	CHAVAN PRAJAKTA UDAY
4.	CHAVAN PRAJAKTA VITTHAL
5.	HOWAL OMKAR VIKAS
6.	JADHAV MONIKA ASHOK
7.	JADHAV POOJA ANANDA
8.	JADHAV PRIYANKA POPAT
9.	JADHAV SALONI BAJARANG
10.	JADHAV YOGITA SUBHASH
11.	KADAM SATYAJEET KUMAR
12.	KAMBLE PADMAJA CHANDRAKANT
13.	KUMBHAR PRATIKSHA LAXMAN
14.	MOHITE SHWETA DILIP
15.	MULE DHANASHRI RA VINDRA
16.	MULE YASHASHRI ANIL
17.	MULIK TEJASWINI PRAKASH
18.	PATIL KOMAL SUDHIR
19.	SAGARE NAINA JALINDAR
20.	SAWAT ANIKET HANMANT

Male :04

Female:16

Head  
Head.  
Department of Botany  
College Ramanandnagar

Principal  
Principal  
Arts, Science & Commerce College,  
Ramannadnagar (Burli)

Rayat Shikshan Sanstha's  
**Arts, Science and Commerce College, Ramanandnagar (Burli).**  
**Department of Botany**  
**Course- Horticulture Technology 2019-20**  
**Time Table**

Period Number	Time	Day	
		Monday	Tuesday
1	10.10 to 11.00	SJS	BAS
2	11.00 to 2.30	SJS	BAS

  
Head

Department of Botany,  
A. S. C. College Ramanandnagar

  
Principal

Arts, Science & Commerce College,  
Ramannadnagar (Burli)



Rayat Shikshan Sanstha's  
Arts, Science and Commerce College, Ramanandnagar (Burli).  
Department of Botany  
Course- Horticulture Technology 2019-20.

**Attendance**

Sr. No.	Name of the Student	2019 - 20								Attendance											
		24/12/19	30/12/19	06/01/20	13/01/20	20/01/20	27/01/20	03/02/20	10/02/20												
1.	BABAR AMRUTA ANKUSH	P	P	P	P	P	P	P	P												
2.	BABAR ANIKET ANKUSH	P	P	P	P	P	P	P	P												
3.	CHAVAN PRAJAKTA UDAY	P	P	P	P	P	P	P	P												
4.	CHAVAN PRAJAKTA VITTHAL	P	P	P	P	P	P	P	P												
5.	HOWAL OMKAR VIKAS	P	P	P	P	P	P	P	P												
6.	JADHAV MONIKA ASHOK	P	P	P	P	P	P	P	P												
7.	JADHAV POOJA ANANDA	P	P	P	P	P	P	P	P												
8.	JADHAV PRIYANKA POPAT	P	P	P	P	P	P	P	P												
9.	JADHAV SALONI BAJARANG	P	P	P	P	P	P	P	P												
10.	JADHAV YOGITA SUBHASH	P	P	P	P	P	P	P	P												
11.	KADAM SATYAJEET KUMAR	P	P	P	P	P	P	P	P												
12.	KAMBLE PADMAJA CHANDRAKANT	P	P	P	P	P	P	P	P												
13.	KUMBHAR PRATIKSHA LAXMAN	P	P	P	P	P	P	P	P												
14.	MOHITE SHWETA DILIP	P	P	P	P	P	P	P	P												
15.	MULE DHANASHRI RAVINDRA	P	P	P	P	P	P	P	P												
16.	MULE YASHASHRI ANIL	P	P	P	P	P	P	P	P												
17.	MULIK TEJASWINI PRAKASH	P	P	P	P	P	P	P	P												
18.	PATIL KOMAL SUDHIR	P	P	P	P	P	P	P	P												
19.	SAGARE NAINA JALINDAR	P	P	P	P	P	P	P	P												
20.	SAWAT ANIKET HANMANT	P	P	P	P	P	P	P	P												

Male :04

Female:16

Head

Principal

Department of Botany,  
C. College, Ramanandnagar

Arts, Science & Commerce College,  
Ramanandnagar (Burli)

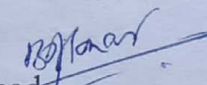
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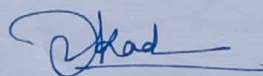
**Annual Report Value added Course**

**2019 – 2020**

Department of Botany is consistently engaged in two Value added Courses viz. Mushroom Cultivation, and Horticultural Technique. Our department is engaged in organization of Mushroom Cultivation, and Horticultural technique value added courses. For the said Course 20 students were the beneficiaries. With the help of knowledge acquired from these two courses students will be able to plant their own small scale industry.

  
Head,  
Head,

Department of Botany  
S. C. College, Ramanandnagar



**Principal**  
Arts, Science & Commerce College,  
Ramanandnagar (Burli)