

Rayat Shikshan Santha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon, District Ahmednagar, 423601
Department of Botany

Short Term Course on Fruit Processing Technology
Board of Studies 2021-2022

Committee for framing syllabus for a Short term Certificate Course on "Fruit Processing Technology" to be conducted by Department of Botany was as follows:

1. Prin. Dr. R.R.Sanap (Chairman)
2. Dr.A.K.Mohite (Head and Member)
3. Mr. B.D. Verpe (Member)
4. Dr. N.V. Malpure (Member)
5. Dr. D.R. Wakchaure (Member, Ashwamedh Agrotech Ltd.)
6. Dr. M.V.Pachore (Alumni)




Head
Department of Botany
S.S.G.M.College,Kopargaon

Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.**

Department of Botany
**Outcome of the Short term Course
Fruit Processing Technology-2021-2022**

The importance of this course, to fulfill the need of well-trained technician to Food Processing Industries and to promote self-employment for establishment of food processing industries.

To provide training to housewives, fruit and vegetable producers and to others to make them aware about the utilization of local products and to make changes in their food trend.

To maintain the quality and nutrition of processed food for the safe utilization of consumer.




Head
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Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopargaon, Dist- Ahmednagar- 423601, (M.S) India**
Short Term Course: Fruit Processing Technology

Department of Botany

Notice

This is to inform all the T. Y. B. Sc. Students that we at Botany Department will be conducting Short Term Course on Fruit Processing Technology from November 2021 during Academic year 2021-2022. The application form should be submitted to Mr. Waman J. C. on before 29/10/2021.

Date: 28/10/2021

Place: Kopargaon


Coordinate




Head
Department of Botany
S.S.G.M. College, Kopargaon
Department of Botany

Rayat Shikshan Sanstha's

**Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopargaon, District -Ahmednagar, 423601.**

Department of Botany

Short Term Course on Fruit Processing

Syllabus

Aims and Objectives of the Syllabus:

1. Students are expected to understand the principle of fruit processing technology.
2. They are expected to understand quality and availability of fruits in the market.
3. The practical's are implemented to understand the concepts and types of preservation methods. It would help in the development of practical skills of the students.
4. To inspire students to take fruit processing technology as a small-scale industry.
5. To understand the benefits and economics of fruit processing industry.
6. To develop interdisciplinary approach of the subject.

Section: I

Theory: 12 L

1. Introduction: Importance of Fruits and Vegetables & its marketing aspects. 1L
2. Technology: Nature of the fruits and vegetables in respect of their preservation. Different terms used in processing. Principle and techniques involved for different fruit and vegetable preservation. 2L
3. Canning operations on fruits and vegetables. Process flow diagram for canning. Canning machineries. Pre-treatment's before canning operations. 2L
4. Fruits and vegetable drying/dehydration: General methods of fruits & vegetable drying/dehydration, sun drying, mechanical drying. Types of dryers, characteristics of dried fruits and vegetables. 2L
5. Principle of making jam and jellies as per availability of the fruits. □Process flow diagram for jam and jellies. Principle and methods of production. 2L
6. Methods of preparation of ketchup, sauce, burphy, candies, juices. 2L
7. Marketing: Market survey procedures. Marketing strategies. Methods of marketing feedback. Cost analysis & attractive packaging. □Advertising procedure. 1L

Section: II

Practical: (1 Practical X 4 L) - 36 L

1. Procure seasonal fruits and vegetable from market.
2. Drying operations of fruits and vegetables using different dryers.
3. Preparation of Jam.
4. Preparation of Jellies.
5. Preparation of Juices.
6. Preparation of Squashes.
7. Preparation on Barfi.
8. Preparation of Candies.
9. Packing, labeling and sealing of prepared fruit products.



Savitribai Phule Pune University Pune
Rayat Shikshan Santha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopargaon, Dist- Ahmednagar- 423601, (M.S) India

Department of Botany 2021-2022
Application form of short term course
Name of the Course-Fruit Processing Technology
Class- T.Y.B.Sc- Botany

Sr. No.	Name of the Students	Sign
1.	Ambadkar Jayashri Balasaheb	Jayashri
2.	Bhagwat Shubham Arjun	Bhagwat Shubham
3.	Bhivsen Shilpa Kailas	Shilpa
4.	Bhoir Aarti Sanjay	Bhoir
5.	Gavhale Shubham Nandu	Gavhale Shubham
6.	Ghanghav Nikita Rajendra	Nikita
7.	Ghoderao Saurabh Balasaheb	Saurabh
8.	Jadhav Gayatri Bapu	Gayatri
9.	Jadhav Renuka Kailas	Renuka
10.	Kadam Komal Balasaheb	Komal
11.	Pagare Priya Dattatray	Priya
12.	Pawar Achal Bhausaheb	Achal
13.	Roham Sagar Dnyandeo	Roham
14.	Satote Aarti Raghunath	Aarti
15.	Shinde Aishwarya Dilip	Aishwarya
16.	Wagh Divya Kishor	Divya

Co-ordinator
Dawals

Head
Department of Botany
B.S.G.M.College,Kopargaon

Rayat Shikshan Santha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.
Department of Botany
APPLICATION FORM
Short Term Course 2021-2022



Photo

Name of the Course: Fruit Processing Technology

1. Full name in English (Block letters): SHINDE AISHWARYA DELIP
(Surname First)

2. Full Name in Devnagari: शिंदे ऐश्वर्या दिलीप

3. Date of birth: 1/11/1999

4. Sex: Female

5. Name of the College: S.S.G.M. College Kopargaon.

6. Adress: A/P. Derde koshale Tal - Kopargaon
Dist - Ahmednagar.

7. Email: ashushinde.ssc@gmail.com

8. Mobile No: 9423843977

9. Faculty: (Science) B.Sc. Botany


10. Aim: In order to aquired fruit processing Technology

11. Other:

Date 29/10/2021


Signature of the student


Co-Ordinator


Principal
S. S. G. M. College, Kopargaon

Rayat Shikshan Santha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.

Department of Botany
APPLICATION FORM
Short Term Course 2021-2022



Photo

Name of the Course: Fruit Processing Technology

1. Full name in English (Block letters): JADHAV GAYATRI BAPURAO
(Surname First)

2. Full Name in Devnagari: जाधव गायत्री बापुराव

3. Date of birth: 26/01/2001

4. Sex: female

5. Name of the College: S.S.G.M. college, Kopargaon.

6. Adress: Saiprahhanagar, Kopargaon.

Tal - Kopargaon, Dist - Ahmednagar.

7. Email: gayatrijadhav015@gmail.com

8. Mobile No: 7768232203

9. Faculty: (Science) B.Sc Botany

10. Aim: In order to aquired fruit processing Technology

11. Other: -

Date 29/10/2021

Gajadhav
Signature of the student

Dassuys
Co-Ordinature

[Signature]
Principal
S. S. G. M. College, Kopargaon

Rayat Shikshan Santha's

**Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopergaon, Dist- Ahmednagar- 423601, (M.S) India**

Short Term Course: Fruit Processing Technology

Department of Botany

Time Table 2021-22

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	8:40-9:25	Practical	Practical				
2.	9:25-10:10	Practical	Practical				
3.	10:10-10:55	Practical	Practical	Theory	Theory	Theory	Theory
4.	4:00-5:00	Practical	Practical	Theory	Theory	Theory	Theory




Head
Department of Botany
S.S.G.M.College,Kopergaon

Rayat Shikshan Sanstha's
S. S. G. M. College, Kopargaon
Short Term Course 2021 - 22
Fruit processing Technology

Attendance

T. Y. B. Sc. Botany

Month-January- 2022

Sr. No.	Name of the Students	3/1/22	5/1/22	11/1/22	13/1/22	17/1/22	20/1/22	21/1/22	24/1/22	27/1/22	28/1/22	31/1/22
1.	Ambadkar Jayashri Balasaheb	P	P	P	P	P	P	P	P	P	P	P
2.	Bhagwat Shubham Arjun	P	A	P	P	P	P	P	P	P	A	P
3.	Bhivsen Shilpa Kailas	P	P	P	P	P	P	P	P	P	A	A
4.	Bhoir Aarti Sanjay	P	P	P	P	P	P	P	P	P	P	P
5.	Gavhale Shubham Nandu	P	P	P	A	P	P	P	P	P	P	P
6.	Ghanghav Nikita Rajendra	P	P	P	P	P	P	P	A	P	P	P
7.	Ghoderao Saurabh Balasaheb	P	P	P	P	P	P	P	P	P	A	P
8.	Jadhav Gayatri Babu	P	P	P	P	P	P	P	P	A	P	P
9.	Jadhav Renuka Kailas	P	P	A	P	P	P	P	P	P	A	P
10.	Kadam Komal Balasaheb	P	P	P	P	P	P	P	P	P	P	A
11.	Pagare Priya Dattatray	P	P	P	P	P	P	P	P	P	P	P
12.	Pawar Achal Bhausaheb	P	P	P	P	P	P	P	P	P	P	P
13.	Roham Sagar Dnyandeo	A	P	P	P	A	P	P	P	P	P	P
14.	Satote Aarti Raghunath	P	P	P	P	P	P	P	P	P	P	P
15.	Shinde Aishwarya Dilip	P	P	P	P	P	P	P	P	P	P	P
16.	Wagh Divya Kishor	P	P	P	P	P	P	P	P	P	P	P

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(Signature)
Head

Department of Botany
S.S.G.M. College, Kopargaon

Rayat Shikshan Sanstha's
S. S. G. M. College, Kopargaon
Short Term Course 2021 - 22
Fruit processing Technology
T. Y. B. Sc. Botany

Attendance

Month-November-2021

Sr. No.	Name of the Students	1/11/21	3/11/21	5/11/21	8/11/21	9/11/21	12/11/21	15/11/21	17/11/21	18/11/21	22/11/21
1.	Ambadkar Jayashri Balasaheb	P	P	P	P	P	P	P	P	P	P
2.	Bhagwat Shubham Arjun	P	P	P	P	P	P	P	P	P	P
3.	Bhivsen Shilpa Kailas	P	P	P	P	P	P	P	P	P	P
4.	Bhoir Aarti Sanjay	P	A	P	P	A	P	P	P	A	P
5.	Gavhale Shubham Nandu	P	P	P	P	P	P	P	P	P	P
6.	Ghanghav Nikita Rajendra	P	P	P	P	P	P	P	P	P	P
7.	Ghoderao Saurabh Balasaheb	P	P	A	P	P	P	P	P	P	P
8.	Jadhav Gayatri Bapu	P	P	P	P	P	P	P	P	P	P
9.	Jadhav Renuka Kailas	P	P	P	P	P	P	P	P	P	P
10.	Kadam Komal Balasaheb	P	P	P	P	P	A	P	P	P	P
11.	Pagare Priya Dattatray	P	P	P	P	P	P	P	P	P	P
12.	Pawar Achal Bhausahab	A	P	P	P	P	P	P	P	P	P
13.	Roham Sagar Dnyandeo	P	P	P	P	P	P	P	P	P	P
14.	Satote Aarti Raghunath	P	P	P	A	P	P	P	P	P	P
15.	Shinde Aishwarya Dilip	P	P	P	P	P	P	P	P	P	P
16.	Wagh Divya Kishor	P	P	P	P	P	P	P	P	P	P

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 Head
 Department of Botany
 S.S.G.M. College, Kopargaon

Rayat Shikshan Sanstha's
S. S. G. M. College, Kopargaon
Short Term Course 2021 - 22
Fruit processing Technology

Attendance

T. Y. B. Sc. Botany

Month-Dcember- 2022

Sr. No.	Name of the Students	3/12/21	6/12/21	9/12/21	15/12/21	17/12/21	20/12/21	23/12/21	24/12/21	27/12/21		
1.	Ambadkar Jayashri Balasaheb	P	P	P	P	P	P	A	P	P		
2.	Bhagwat Shubham Arjun	P	P	P	P	P	P	P	P	P		
3.	Bhivsen Shilpa Kailas	P	P	A	P	A	P	A	P	P		
4.	Bhoir Aarti Sanjay	P	P	P	P	P	P	P	P	P		
5.	Gavhale Shubham Nandu	P	P	P	P	P	P	P	P	P		
6.	Ghanghav Nikita Rajendra	P	P	P	P	P	P	P	P	P		
7.	Ghoderao Saurabh Balasaheb	P	P	P	P	P	P	P	P	P		
8.	Jadhav Gayatri Bapu	A	P	A	P	P	P	P	P	P		
9.	Jadhav Renuka Kailas	P	P	P	P	P	P	P	P	P		
10.	Kadam Komal Balasaheb	P	P	P	P	P	P	P	P	P		
11.	Pagare Priya Dattatray	P	P	P	P	P	P	A	P	P		
12.	Pawar Achal Bhausahab	P	P	P	P	P	P	P	P	P		
13.	Roham Sagar Dnyandeo	A	P	P	P	P	P	P	P	P		
14.	Satote Aarti Raghunath	P	P	P	P	P	P	P	P	P		
15.	Shinde Aishwarya Dilip	P	P	P	P	P	P	P	P	P		
16.	Wagh Divya Kishor	A	P	P	P	P	P	P	P	P		

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(Signature)
Head

Department of Botany
S.S.G.M. College, Kopargaon

Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.**

Department of Botany

Short-Term Course-2021-2022

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Date- 21/02/2022

Marks-40

Q.1- Answer the following in two to three lines.

12 Marks

1. What is mean by dehydration of fruit?
2. Write down in briefly attractive packaging.
3. What is the preservation?
4. What is canning?

Q.2- Answer the following in briefly.

08 Marks

1. Write down the principle of production of jelly.
2. Write down the characteristic of dried fruits and vegetables

Q.3- Write short note on.

20 Marks

1. Procedure of Tomato ketchup.
2. Procedure of Peru burphy
3. Mechanical drying
4. Importance of fruits

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Commerce College, Kopargaon.**

Department of Botany

Short-Term Course-2021-2022

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Date- 23/02/2022

Final Mark- list

Sr. No.	Roll. No.	Name	Marks out of 40
1.	8251	Ambadkar Jayashri Balasaheb	37
2.	8252	Bhagwat Shubham Arjun	36
3.	8253	Bhivsen Shilpa Kailas	36
4.	8254	Bhoir Aarti Sanjay	34
5.	8255	Gavhale Shubham Nandu	35
6.	8256	Ghanghav Nikita Rajendra	36
7.	8257	Ghoderao Saurabh Balasaheb	37
8.	8258	Jadhav Gayatri Bapu	37
9.	8259	Jadhav Renuka Kailas	34
10.	8260	Kadam Komal Balasaheb	36
11.	8261	Pagare Priya Dattatray	38
12.	8262	Pawar Achal Bhausahab	38
13.	8263	Roham Sagar Dnyandeo	36
14.	8264	Satote Aarti Raghunath	35
15.	8265	Shinde Aishwarya Dilip	34
16.	8266	Wagh Divya Kishor	35

Dooreeys
Co-ordinator

AV
Head
Department of the Botany

Savitribai Phule Pune University Pune
Rayat Shikshan Santha's
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopargaon, Dist- Ahmednagar- 423601, (M.S) India

Department of Botany
Class- T.Y.B.Sc- Botany

Subject- Feedback form of short term course

2021-2022

Name of the Course-Fruit Processing Technology

Feed back Date: 25-02-2022

Name of the student Kadam Komal Balababeh

About the Course Information on the Respondent: (Tick (✓) Appropriately)

Questionary	Excellent A	Very Good B	Good C	Satisfactory D	Poor E
1. Pace of the Teaching/lecture	✓				
2. Were objectives of the course clear to you?		✓			
3. Comment of the Subject		✓			
4. The course contents compared with your expectations?	✓				
5. Level of preparation		✓			
6. Level of interaction	✓				
7. Others (please specify)					

1. What aspects of the training could be improved?

very nice training be reduced.

2. How do you hope to change your practice as a result of this Course?

overall course is very interesting.

3. What additional of this course would you like to have in the future?

fruit candy should can be added.

(Kadam)
Sign of the Student

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Commerce College, Kopargaon, Dist- Ahmednagar- 423601, (M.S) India

Department of Botany
Class- T.Y.B.Sc- Botany

Subject- Feedback form of short term course

2021-2022

Name of the Course-Fruit Processing Technology

Feed back Date: ~~25 febr~~ 25/02/2022

Name of the student Jadhav Gayatri Bapurao

About the Course Information on the Respondent: (Tick (✓) Appropriately)

Questionary	Excellent A	Very Good B	Good C	Satisfactory D	Poor E
1. Pace of the Teaching/lecture	✓				
2. Were objectives of the course clear to you?		✓			
3. Comment of the Subject		✓			
4. The course contents compared with your expectations?	✓				
5. Level of preparation		✓			
6. Level of interaction	✓				
7. Others (please specify)					

1. What aspects of the training could be improved?

very nice Training but time

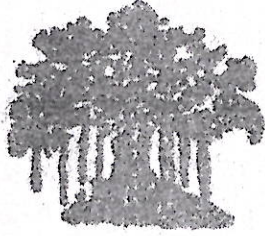
2. How do you hope to change your practice as a result of this Course?

Reduced Time

3. What additional of this course would you like to have in the future?

Tomato source
Fruit candy should can be
added.

Gyathav
Sign of the Student



"Education Through Self - Help is our Motto" Karmaveer

Rayat Shikshan Sanstha's

Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani Commerce College

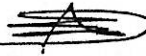


Kopargaon, Dist. Ahmednagar (M.S.)

Short Term Course


CERTIFICATE OF COMPLETION

This is to Certify that Shri/Kum. Bhoir Amabi Sanjay
of Class T.Y. BSc. has Completed Short Term Course in Fruit processing
Technology conducted by the department of Botany
during the academic year 2021 /2022 .


Course Co-ordinator


Co-ordinator


Principal


Principal
S.S.&M.College
Kopargaon

Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani
Commerce College, Kopargaon, Dist- Ahmednagar- 423601, (M.S) India**
Short Term Course: Fruit Processing Technology

Department of Botany

Report

The Botany Department has arranged a Short Term Course on Nursery Management and Succulent Plants Gardening for T. Y. B.Sc. students to get the immediate earning source after graduation. In this course 16 students were admitted. The duration of course is about three months. All the faculty members are appointed for completion of the syllabus. After completing all the work certificates are given to the students.

Date: 27/02/2022

Place: Kopargaon


Coordinate




Head
Department of Botany
S.S.G.M. College, Kopargaon

Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.**

Department of Botany

Outcome of the Short-term Course

Nursery Management and Succulent Plant Gardening-2021-2022

The importance of this course, to fulfill the need of well-trained technician to the Nurseries, and to promote self-employment for establishment of various types of nurseries.

Students learn the skill of different propagation methods

To provide training to students as a Nursery manager and to others to make them aware about the plant seeds or seedlings, nature of plants, and prune plants. Provide knowledge of planting and harvesting to fertilization and fertilization scheduling.

Provide knowledge of Manage the nursery operations, including coordination with team and others, material and equipment inventory, and ordering all supplies.



Head

Department of Botany