

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 2020-2021

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. S.R.Thopate (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 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.
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Department of Botany

Short-Term Course-2020-2021

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Information about Total admission and Date of Examination

Sr. No.	Total number of admission			Total number of conducted lecture offline	Date of examination
	Total boys	Total girl	Total		
1.	09	10	19	15 Theory + 13 practical=28	30/03/2021



[Signature]
Head
Department of Botany
Department of the Botany
S.S.G.M. College, Kopargaon

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Commerce College, Kopargaon, District Ahmednagar, 423601

Department of Botany

Short Term Course on Fruit Processing 2020-2021

List of Admitted Students

Sr. No.	Roll. No..	Name
1.	8251	AherRutujaDattatray
2.	8252	BhokareKomalBabasaheb
3.	8253	BhujadeDeepaliSantosh
4.	8254	Bhuse Nikhil Bhanudas
5.	8255	DeokarRohitBalasaheb
6.	8256	DeokarSweetyAmbadas
7.	8257	GunjalBhartiBalasaheb
8.	8258	KanganeSupriya Sanjay
9.	8259	Kate AniketSampat
10.	8260	LamkhadeKunalSahebrao
11.	8261	Mali Mahesh Subhash
12.	8262	RokadeRajashriGanpat
13.	8263	Salunkhe Ajay Sunil
14.	8264	ShindeAdeshShantaram
15.	8265	ShindeAvinashRamnath
16.	8266	ShindeHrutujaRajendra
17.	8267	Shirsath Nikita Balasaheb
18.	8268	VigheSandipKeshav
19.	8269	JadhavBhagyashreePrabhakar


Co-ordinator


Head

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



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**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopargaon.**
Department of Botany

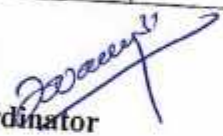
Short-Term Course-2020-2021

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Time – Table

Sr. No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	7.55-8.40	Practical	Practical				
2	8.40-9.25	Practical	Practical				
3	9.25-10.10	Practical	Practical	Theory	Theory	Theory	Theory
4	10.10-10.55	Practical	Practical	Theory	Theory	Theory	Theory


Co-Ordinator




Head
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Department of the Botany
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**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
Commerce College, Kopergaon.**

Department of Botany
Short-Term Course-2020-2021

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Date- 17/01/2021

Syllabus distribution-

Whole syllabus of Fruit Processing Technology has been conducted by Co-Ordinated Dr. S.B. Davange.




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

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 M.Sc. Students that we at Botany Department will be conducting Short Term Course on Fruit processing technology, from December 2020 during Academic year 2020-2021. The application form should be submitted to Mr. Waman J. C. on before 10/12/2020.

Date: 01/12/2020

Place: Kopargaon


Coordinator




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

Rayat Shikshan Santha's
S. S. G. M. College, Kopargaon
Short Term Course on Fruit Processing 2020-2021

Class: T. Y. B. Sc.

Month: March 2021

Sr. No.	Name Of Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1.	Aher Rutuja Dattatray	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P								
2.	Bhokare Komal Babasaheb	P	P	P		P	P				A	P		P	A		P	P			P	P		P	P		P	P		P	P	P
3.	Bhujade Deepali Santosh	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
4.	Bhuse Nikhil Bhanudas	P	P	P		A	P		P	P	P		P	A		P	P			P	P		P	P		P	P		P	P	P	
5.	Deokar Rohit Balasaheb	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
6.	Deokar Sweety Ambadas	P	P	P		A	P		P	A	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
7.	Gunjal Bharti Balasaheb	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
8.	Kangane Supriya Sanjay	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
9.	Kate Aniket Sampat	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
10.	Lamkhade Kunal Sahebrao	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
11.	Mali Mahesh Subhash	P	P	P		P	P		P	P	A		P	P		P	P			P	P		P	P		P	P		P	P	P	
12.	Rokade Rajashri Ganpat	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
13.	Salunkhe Ajay Sunil	P	P	P		P	P		P	A	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
14.	Shinde Adesh Shantaram	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
15.	Shinde Avinash Ramnath	P	P	P		P	P		P	A	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
16.	Shinde Hrutuja Rajendra	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
17.	Shirsath Nikita Balasaheb	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
18.	Vighe Sandip Keshav	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	
19.	Jadhav Bhagyashree Prabhakar	P	P	P		P	P		P	P	P		P	P		P	P			P	P		P	P		P	P		P	P	P	




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

Rayat Shikshan Santha's
S. S. G. M. College, Kopargaon
Short Term Course on Fruit Processing 2020-2021

Class: T. Y. B. Sc.

Sr. No.	Name Of Students	Month: February 2021																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
1.	Aher Rutuja Dattatray	P	P	P	A	P	P		A	P	P	P	P	A		P	P	A	P	P	P		P	P	P	P	P							
2.	Bhokare Komal Babasaheb	P	P	A	P	P		P	P	P	A	P	P		P	P	A	P	P	P		P	P	P	P	P								
3.	Bhujade Deepali Santosh	P	P	P	A	P	P		P	P	P	P	A	P		P	A	P	P	P	A		P	P	A	P	P	P						
4.	Bhuse Nikhil Bhanudas	P	P	P	P	P		P	P	P	P	A	P		P	A	P	P	P	A		P	P	P	A	P	P							
5.	Deokar Rohit Balasaheb	A	P	P	A	P	P		P	A	P	P	P	A		P	A	P	P	P	P		P	P	P	P	A	P						
6.	Deokar Sweety Ambadas	P	P	P	A	P	P		P	P	P	A	P	P		P	A	P	P	P	P		P	P	P	A	P	P						
7.	Gunjal Bharti Balasaheb	P	P	P	P	P		P	P	P	P	P	P		P	P	A	P	P	P		P	P	P	A	P	P							
8.	Kangane Supriya Sanjay	P	P	P	P	P	A		P	P	A	P	P	A		P	P	P	P	P	A		P	P	P	P	P							
9.	Kate Aniket Sampat	P	P	P	A	P	P		P	P	P	P	P	A		P	P	P	P	P	A		P	P	P	P	P							
10.	Lamkhade Kunal Sahebrao	P	P	P	P	A	P		P	A	P	P	P	A		P	P	A	P	P	P		P	A	P	P	P							
11.	Mali Mahesh Subhash	A	P	P	P	P	A		P	P	P	P	P	P		P	P	A	P	P	P		P	P	P	P	P							
12.	Rokade Rajashri Ganpat	P	P	P	P	A	P		P	P	P	P	A	P		P	P	P	P	P	A		P	P	P	A	P	P						
13.	Salunkhe Ajay Sunil	P	P	P	P	A	P		P	P	P	P	P	P		P	P	P	P	P	P		P	P	P	P	P							
14.	Shinde Adesh Shantaram	P	P	P	A	P	P		A	P	P	A	P	P		P	P	P	P	A	P		A	P	P	A	P	P						
15.	Shinde Avinash Ramnath	A	P	P	P	P	P		P	P	A	P	P	P		P	P	P	P	P	P		P	P	P	P	P							
16.	Shinde Hrutuja Rajendra	P	P	A	P	P	P		P	P	P	P	A	P		P	P	P	P	A	P		P	P	A	P	P							
17.	Shirsath Nikita Balasaheb	P	P	P	A	P	P		A	P	A	P	P	P		P	P	P	P	P	P		P	P	P	A	P	P						
18.	Vighe Sandip Keshav	P	P	P	P	P	P		P	P	P	P	A	P		P	P	P	A	P	P		A	P	P	P	P							
19.	Jadhav Bhagyashree Prabhakar	P	P	P	P	A	P		P	P	P	A	P	P		P	P	P	A	P	P		P	P	A	A	P	P						




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

Rayat Shikshan Santha's
S. S. G. M. College, Kopargaon
Short Term Course on Fruit Processing 2020-2021

Class: T. Y. B. Sc.

Month: January 2021

Sr. No.	Name Of Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1.	Aher Rutuja Dattatray	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2.	Bhokare Komal Babasaheb	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	Bhujade Deepali Santosh	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
4.	Bhuse Nikhil Bhanudas	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5.	Deokar Rohit Balasaheb	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	Deokar Sweety Ambadas	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7.	Gunjal Bharti Balasaheb	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
8.	Kangane Supriya Sanjay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	Kate Aniket Sampat	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	Lamkhade Kunal Sahebrao	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11.	Mali Mahesh Subhash	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
12.	Rokade Rajashri Ganpat	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13.	Salunkhe Ajay Sunil	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P
14.	Shinde Adesh Shantaram	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15.	Shinde Avinash Ramnath	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16.	Shinde Hrutuja Rajendra	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
17.	Shirsath Nikita Balasaheb	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18.	Vighe Sandip Keshav	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
19.	Jadhav Bhagyashree Prabhakar	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P




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

Department of Botany

Short Term Course: Fruit Processing Technology
2020-21

Feedback form

Class: T. Y. B. Sc.

Date: 15-03-2021

Name of the student: *Ahex Rutuja Dattatray*

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?

Training period should be reduce

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

over all course is very interesting

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

fruit cadly should be added

Ahex

Sign of the Student

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

**Short Term Course: Fruit Processing Technology
2020-21**

Feedback form

Class: T. Y. B. Sc.

Date: 15-03-2021

Name of the student: Miss. Bhokare Komal Babasaheb

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?

- Training period should be reduced.

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

- overall course is very nice

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

- fruit soft drink should be added.

Komal B.

Sign of the Student

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

Department of Botany

Short-Term Course-2020-2021

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Date- 11/03/2021

Final Mark- list

Sr. No.	Roll. No.	Name	Marks out of 40	Grade
1.	8251	Aher Rutuja Dattatray	35	O
2.	8252	Bhokare Komal Babasaheb	30	A
3.	8253	Bhujade Deepali Santosh	32	A
4.	8254	Bhuse Nikhil Bhanudas	31	A
5.	8255	Deokar Rohit Balasaheb	30	A
6.	8256	Deokar Sweety Ambadas	35	O
7.	8257	Gunjal Bharti Balasaheb	32	A
8.	8258	Kangane Supriya Sanjay	33	A
9.	8259	Kate Aniket Sampat	32	A
10.	8260	Lamkhade Kunal Sahebrao	33	A
11.	8261	Mali Mahesh Subhash	38	O
12.	8262	Rokade Rajashri Ganpat	37	O
13.	8263	Salunkhe Ajay Sunil	35	O
14.	8264	Shinde Adesh Shantaram	32	A
15.	8265	Shinde Avinash Ramnath	33	A
16.	8266	Shinde Hrutuja Rajendra	36	O
17.	8267	Shirsath Nikita Balasaheb	36	O
18.	8268	Vighe Sandip Keshav	36	O
19.	8269	Jadhav Bhagyashree Prabhakar	35	O

Dooreys
Co-ordinator



[Signature]
Head
Department of the Botany
Department of Botany
S.S.G.M.College,Kopargaon

Rayat Shikshan Santha's
**Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani
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Department of Botany

Short-Term Course-2020-2021

Subject-Fruit Processing Technology

Class-T. Y. BSc. (Botany)

Date- 30/03/2021

Marks-40

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

12 Marks

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

Q.2- Answer the following in briefly.

08 Marks

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

Q.3- Write short note on.

20 Marks

1. Types of dryers
2. Procedure of amala candy
3. Mechanical drying



"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.)

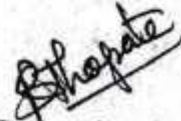
Short Term Course


CERTIFICATE OF COMPLETION

This is to Certify that Shri/Kum. Bhokare Komal Babasaheb
of Class T.Y. BSc. has Completed Short Term Course in Fruit processing
Technology conducted by the department of Botany
during the academic year 2020 /2021 .


Course Co-ordinator


Co-ordinator


Principal


Principal
S.S.G.M. College
Kopargaon