

**Rayat Shikshan Sanstha's,
Arts, Science and Commerce College, Mokhada
Dist. Palghar 401 604**

Short Term Certificate Course: "Fruit and Vegetable Processing"

Date: 04/12/2018

Board of Studies-2018-19

Sr. No.	Designation	Name of Person
1)	Chairman	Dr. J. G. Jadhav (Principal)
2)	Member	Prof. S. E. Saindanshiv
3)	Member	Dr. Magdum B. M.
4)	Member	Prof. Gojare S. M.
5)	Member	Prof. Gandule A. S.

Minutes of Meeting

Board of studies meeting for the short-term Course "**Fruit and Vegetable Processing**" was held on 04/12/2018 at 3.00 pm in the principal cabin.

The Following pants are discussed in the meeting

- Syllabus formation of **Fruit and Vegetable Processing** certificate course
- Distribution of work
- To run the course without fee for encouragement of Students

S. Goja
Course Co-ordinator



D. W. J.
Principal
Arts, Science & Com. College
Mokhada, Dist. Palghar

Date: 13/11/2020

RayatShikshanSanstha's

Art, Science and Commerce College, Mokhada, Dist.: Palghar

Notice

All the students of FY/ SY/ TYBSc hereby informed that 'Fruit and vegetable processing' short term course has been commencing during the academic year 2020-2021. The aspirant whom would like to takeparticipates to this course contact to Prof. Saindanshiv S.E. and Prof. Pawar G.B. (Botany Dept.) and gives the name till 18/11/2020date.



Head,

Department of Botany

Principal

Arts, Science & Commerce, College
Mokhada, Dist. Palghar

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Mokhada
Tal. Mokhada Dist. Palghar
Short Term Course (2020-2021)





Class: T.Y. B.Sc.

Sub: Fruit and Vegetable Processing

Time Table

Sr. No	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1.	10.00 to 11.00 M	SES	GBP	SES	GBP		
2.	2 to 4 pm					Practical/Field work SES	Practical/Field work GBP


HEAD
Department of Botany,
Arts, Science & Com. College
Mokhada, Dist. Palghar


Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar



2020-21

Rayat Shikshan Sanstha's

Arts Science and Commerce College Mokhada

Tal-Mokhada, Dist. Palghar

2019-20

Department of Botany

A Short Term Course

Fruit & Vegetable Processing

Syllabus

Unit. 1 – Entrepreneurship Development

1. Concept of Entrepreneurship
2. Difference between entrepreneur & manager
3. Qualities of entrepreneur
4. Skills of entrepreneur
5. Reason for failure of entrepreneurship.

Unit.2 – Need, status & Scope of Fruit & Vegetable industry in India

Unit.3 – Fruit Specifics processing technology

Unit.4 – Milk & Milk product Processing

Unit.5 – Quality Control/ Quality assurance & international trade

Unit.6 – Processing Machinery

Unit.7 – Waste management

Unit.8 – Fruit Cutting / Decoration & Presentation

Unit.9 – Food Process Management

Unit.10 – Market Survey, Market research & Market Strategies

Unit.11- Project report preparation plan / Business plan preparation

Unit.12-Rule & Regulation, Food Law (FSSAI 2006)

Unit.13- Bank role, procedure, Documentation

RayatShikshanSanstha's

Art, Science and Commerce College, Mokhada, Dist.: Palghar

Short term course: Fruit and vegetable processing

Students List 2020-2021



Sr.No.	Roll No	Name of the students
1	1836	ABHYANKAR TUSHAR SHRIKANT
2	1837	DIGHA PRAVIN KASHINATH
3	1838	FUPANE JAGDISH SURESH
4	1839	GAWARI PRASAD JANARDHAN
5	1840	HALKUNDE BHASKAR DATTU
6	1841	JADHAV GANESH KALU
7	1842	KHUTADE NILESH BABAN
8	1843	KORDE HEMANT BHAU
9	1844	NAVALE KALPANA HARI
10	1845	NIMBARE AJAY BALIRAM
11	1846	SALKAR YUVRAJ CHANDRAKANT
12	1847	SHINDE NANDA RAMDAS
13	1848	TARAL DIPAK SAKHARAM
14	1849	THOMARE PADMAKAR SADANAND
15	1850	WAJE VINOD SUKRYA
16	1851	WARGHADE RAMESH BHAGIRATH

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HEAD

Department of Botany,
Arts, Science & Com. College
Mokhada, Dist. Palghar

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Principal

Arts, Science & Commerce College
Mokhada, Dist. Palghar



Attendance of students 2020-21 January

Sr. No.	Name of student	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	ABHYANKAR TUSHAR SHRIKANT	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	DIGHA PRAVIN KASHINATH	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	FUPANE JAGDISH SURESH	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	P									
4	GAWARI PRASAD JANARDHAN	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	P	P								
5	HALKUNDE BHASKAR DATTU	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	P	P	P							
6	JADHAV GANESH KALU	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	P	P	P	P						
7	KHUTADE NILESH BABAN	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	P	P	P	P	P					
8	KORDE HEMANT BHAU	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	P	P	P	P	P	P				
9	NAVALE KALPANA HARI	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	P	P	P	P	P	P				
10	NIMBARE AJAY BALIRAM	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	P	P	P	P	P	P	P			
11	SALKAR YUVRAJ CHANDRAKANT	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	P	P	P	P	P	P	P			
12	SHINDE NANDA RAMDAS	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	P	P	P	P	P	P	P	P		
13	TARAL DIPAK SAKHARAM	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	P	P	P	P	P	P	P	P	P	
14	THOMARE PADMAKAR SADANAND	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	P	P	P	P	P	P	P	P	P	
15	WAJE VINOD SUKRYA	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	P	P	P	P	P	P	P	P	P	
16	WARGHADE RAMESH BHAGIRATH	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	P	P	P	P	P	P	P	P	P	P

[Signature]
Principal

Arts, Science & Commerce, College
Mokhada, Dist. Palghar

[Signature]
HEAD

Department of Botany,
Arts, Science & Com. College
Mokhada, Dist. Palghar



Attendance of students 2020-21 December

SR. No.	Name of student	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	ABHYANKAR TUSHAR SHRIKANT	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	DIGHA PRAVIN KASHINATH	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	FUPANE JAGDISH SURESH	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		
4	GAWARI PRASAD JANARDHAN	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	P	
5	HALKUNDE BHASKAR DATTU	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	P	
6	JADHAV GANESH KALU	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	P	
7	KHUTADE NILESH BABAN	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	P	
8	KORDE HEMANT BHAU	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	P	
9	NAVALE KALPANA HARI	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	P	
10	NIMBARE AJAY BALIRAM	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	P	
11	SALKAR YUVRAJ CHANDRAKANT	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	P	P
12	SHINDE NANDA RAMDAS	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	P	P
13	TARAL DIPAK SAKHARAM	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	P	P
14	THOMARE PADMAKAR SADANAND	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	P	P
15	WAJE VINOD SUKRYA	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	P	P
16	WARGHADE RAMESH BHAGIRATH	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	P	P

[Signature]

HEAD
Department of Botany,
Arts, Science & Com. College,
Mokhada, Dist. Palghar

[Signature]
Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar



Attendance of students 2020-21 February

SR. No.	Name of student	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
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15	WAJE VINOD SUKRYA	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	WARGHADE RAMESH BHAGIRATH	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

 HEAD

Department of Botany,
Arts, Science & Com. College
Mokhada, Dist. Palghar

 Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar



Question bank

1 Fruit are perishable due to their high content of -----

- a. water and sugar
- b. water
- c. sugar
- d. water, sugar and fats

2 Fruit preservation method uses ----- chemical for preservation of fruits

- a. Benzoic acid
- b. Sulphuric acid
- c. Nitric oxide
- d. Hydrochloric acid

3. ----- method of fruit preservation is very popular method

- a. addition of sugar and heating
- b. UV radiation
- c. freezing
- d. addition of chemicals

4. All the fruit and vegetable have ----- temperature below which undesirable and irreversible reactions or 'chill damage' takes place.

- a. critical
- b. optimum
- c. maximum
- d. minimum

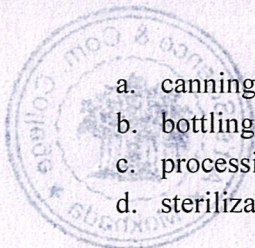
5. The most of fruits and vegetables requires high but not saturated relative humidity of----- %

- a. 85 to 95
- b. 70 to 80
- c. 60 to 70
- d. 40 to 60

6. ----- is mainly concern with storage of different produce in the storage room.

- a. Compatibility
- b. Incompatibility
- c. both a and b
- d. none

7. ----- is method of food or fruit preservation in which the food or fruit is processed and sealed in an airtight container.



- a. canning
- b. bottling
- c. processing
- d. sterilization

8. fruit pulp is obtained from ----- part of fruit

- a. epicarp
- b. mesocarp
- c. endocarp
- d. whole fruit

9. Pulp is frozen to a temperature of-----⁰c

- a. -20
- b. -25
- c. -30
- d. -35

10. ---- is the examples of processed fruit with at least 25% fruit juice or pulp, and 40 to 50% total soluble solids, 1% acid and preservative.

- a. fruit pulp
- a. b.. squash
- b. chips
- c. juice

11. ----- is preserve made from whole fruit boiled to a pulp with sugar.

- a. jam
- b. jelly
- a. c.. ketchup
- b. squash

12. ----- is sweet spread of fruit juice boiled with sugar and sometimes pectin, then cooled to a soft, sticky consistency.

- a. jam
- b. jelly
- a. ketchup
- b. squash

13. A thick savoury sauce (flavouring liquid) usually made from tomatoes known as ----

- a. jam
- b. jelly
- a. ketchup
- b. squash



14. A lumpy mixture of chopped vegetable or fruit preserved in vinegar or brine (salted water) to give sharp or spicy flavour and eaten with other food -----

- a. pickle
- b. jelly
- c. ketchup
- a. squash

15. In the -----preparation method, fruits of naturally high pectin.

- a. pickle
- b. jelly
- c. ketchup
- d. squash

16.----- grading is carried out as A, B, C, and D.

- a. Potato
- b. Tomato
- c. Brinjal
- d. Chillies

17. The vegetables and fruits are washed after harvesting useful in-----.

- a. a soil,
- b. b dust
- c. c dirt & microorganisms
- d. d all of these

18. Precooling of harvested produce is done for-----.

- a. a cooling produce
- b. b to prevents decay
- c. c to prevents ripening
- d. d all of these

19. Quality parameter for vegetables and fruits are-----.

- a. appearance & texture
- b. flavor & nutritive value
- c. both a & b
- d. all of these

17. The controlled atmosphere storage maintains -----.

- a. a higher CO₂ & lesser O₂,
- b. b lesser O₂ & CO₂

c. c higher O₂ & CO₂

d. d none of these

18. To prevent contamination at the time of filling the ketchup in container the temperature is maintained at --- °c.

a. 88

b. 90

c. 92

d. 94

19. ----- should contain not less than 68.5 % soluble solids as determined or calibrated by refractometer.

a. Jam

b. jelly

c. ketchup

d. squash

23. The preservative used such as potassium metabisulphite (KMS), sodium benzoate for ----
- preparation.

a. jam

b. jelly

c. ketchup

d. squash

24. The slices of fruit can be dried and processed to form -----.

a. jam

b. jelly

c. ketchup

d. chips

25. Preservation by ----- is very old method.

a. fermentation

b. heating

c. cooling

d. none

RayatShikshanSanstha's
Arts,Science and Commerce College, Mokhada,
Tal. MokhadaDist.Palghar


Department of Botany
Short Term Course Examination (2020-2021)




Fruit and Vegetable processing

Result

Sr. No.	Roll No.	Name of the students	Marks oral out of 50	Marks theory out of 50	Total marks
1	1836	ABHYANKAR TUSHAR SHRIKANT	44	48	92
2	1837	DIGHA PRAVIN KASHINATH	40	42	82
3	1838	FUPANE JAGDISH SURESH	38	38	76
4	1839	GAWARI PRASAD JANARDHAN	40	48	88
5	1840	HALKUNDE BHASKAR DATTU	42	36	78
6	1841	JADHAV GANESH KALU	40	46	86
7	1842	KHUTADE NILESH BABAN	41	46	87
8	1843	KORDE HEMANT BHAU	44	42	86
9	1844	NAVALE KALPANA HARI	42	46	88
10	1845	NIMBARE AJAY BALIRAM	41	46	87
11	1846	SALKAR YUVRAJ CHANDRAKANT	41	44	85
12	1847	SHINDE NANDA RAMDAS	40	48	88
13	1848	TARAL DIPAK SAKHARAM	42	44	86
14	1849	THOMARE PADMAKAR SADANAND	43	44	87
15	1850	WAJE VINOD SUKRYA	40	48	88
16	1851	WARGHADE RAMESH BHAGIRATH	44	44	88


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Rayat Shikshan Sanstha's,
Arts, Science & Commerce College, Mokhada, Dist: Palghar
Email: asccmokhada@gmail.com
Website: www.asccmokhada.co.in
Affiliated to University of Mumbai, Mumbai




Report of Short-Term Course

Name of the Department/ Committee	Botany
Name of the Coordinator	Prof. S. E. Saindanshiv
Title of the Event/ Programme	A Short-term course on "Fruit and Vegetable processing"
Date /Period of Event/ Programme	07/12/2020
Objective of the event/Programme	To know techniques of fruit and vegetable processing.
Sponsored Agency /Institute	A.S.C. College Mokhada Dist. Palghar.
Total No. of the Participant	16
Total No. of the Teacher Participant	02
Name of the Expert /Invitee/Lecturer (With Designation, Contact, Address & email etc.)	Prof. S. E. Saindanshiv Associate Professor ASC College Mokhada Dist. Palghar Mob. No. 9423755253 Subhash22081966@gmail.com
Venue of the Event/ Programme	A.S.C. College Mokhada Dist. Palghar.
Programme Outcome	Students understand the technique of Fruit and Vegetable processing.


Prof. S. E. Saindanshiv
Course Coordinator

HEAD
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Dr. J. G. Jadhav
Principal

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Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada,
Tal. Mokhada, Dist. Palghar - 401 604

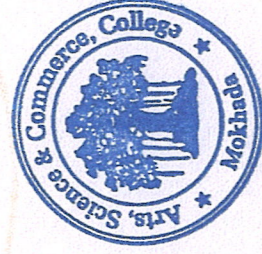
A short-term course on

"FRUIT AND VEGETABLE PROCESSING"

CERTIFICATE

This is to certify that Mr./ Mrs./ Miss. Abhyankar Tushar Shrikant. of class
T.Y.B.Sc. (Botany) has successfully completed short term course entitled "Fruit and vegetable
processing" in academic year 2020-21 conducted by Department of Botany, Arts Science and
Commerce College, Mokhada.


Prof. S. E. Saindandshiv
Coordinator &
Head, Dept. of Botany




Dr. J. G. Jadhav
Principal
Arts, Science & Commerce, College
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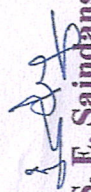
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CERTIFICATE

This is to certify that Mr./ Mrs./ Miss. Warghade Ramesh Bhagirath of class
T.Y.B.Sc. (Botany) has successfully completed short term course entitled "**Fruit and vegetable**
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CERTIFICATE

This is to certify that Mr./ Mrs./ Miss. Klaje Vinod Sukreja of class
T.Y.B.Sc. (Botany) has successfully completed short term course entitled "**Fruit and vegetable
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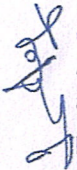
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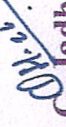
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CERTIFICATE

This is to certify that Mr./ Mrs./ Miss. Thomare Padmakar Sadanand of class
T.Y.B.Sc. (Botany) has successfully completed short term course entitled "**Fruit and vegetable
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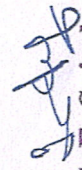
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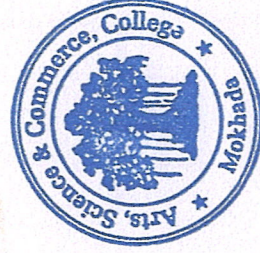
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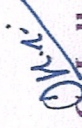
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CERTIFICATE

This is to certify that Mr./ Mrs./ Miss. Taral Dipak Sakharam of class
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