

**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



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

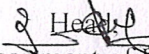
Rayat Shikshan Sanstha's
Art, Science and Commerce College, Mokhada
Dist. Palghar 401 604
Department of Botany

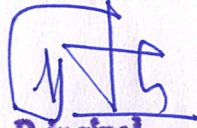
Date: 16/11/2021

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 2021-2022. The aspirant whom would like to take participates to this course contact to Prof. Saindانشiv S.E. and Prof. Dr. Chandore A. N. (Botany Dept.) and gives the name till 18/11/2021.




Department of Botany
HEAD
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Mokhada, Dist. Palghar


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Department of Botany

Short Term Course (2021-22)

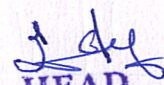
Class: S.Y. B.Sc.

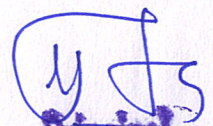
Sub: Fruit and Vegetable Processing

Time Table

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




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2021-22

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


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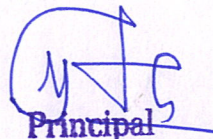
Short term course: Fruit and vegetable processing

Students List 2021-22



Sr. No.	Roll No.	Student Name
1	8001/21	Aarde Puja Manohar
2	8002/21	Baraf Sarita Kashiram
3	8003/21	Budhar Manoj Kamalakar
4	8004/21	Gavali Harshala Suresh
5	8005/21	Jabar Tushar Somnath
6	8006/21	Jadhav Sunayana Badelal
7	8007/21	Maule Sandesh Rajaram
8	8008/21	Navale Apeksha Keshav
9	8009/21	Padher Sachin Sonu
10	8010/21	Patil Dipali Ashok
11	8011/21	Patil Sakshi Sanjay
12	8012/21	Satpute Karan Manohar
13	8013/21	Wagh Yamini Hiraman
14	8014/21	Warghade Jyotika Bhagwan


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Fruit and Vegetable Processing

Attendance Sheet

Roll No.	Name of the student	22/11/21	23/11/21	24/11/21	25/11/21	26/11/21	27/11/21	29/11/21	30/11/21	11/12/21	21/12/21
8001/21	Aarde Puja Manohar	Puja	Puja	Puja	-	Puja	Puja	Puja	Puja	-	Puja
8002/21	Baraf Sarita Kashiram	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)
8003/21	Budhar Manoj Kamalakar	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)	(Ab)
8004/21	Gavali Harshala Suresh	Pavali	Pavali	Pavali	Pavali	Pavali	Pavali	Pavali	Pavali	Pavali	Pavali
8005/21	Jabar Tushar Somnath	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba	Pesaba
8006/21	Jadhav Sunayana Badelal	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana
8007/21	Maule Sandesh Rajaram	MUR	MUR	MUR	MUR	MUR	MUR	MUR	MUR	MUR	MUR
8008/21	Navale Apeksha Keshav	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale
8009/21	Padher Sachin Sonu	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
8010/21	Patil Dipali Ashok	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8011/21	Patil Sakshi Sanjay	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8012/21	Satpute Karan Manohar	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8013/21	Wagh Yamini Hiranman	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh
8014/21	Warghade Jyotika Bhagwan	Jw	Bur	Bur	-	-	Bur	Bur	Bur	Bur	Bur

Principal

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Fruit and Vegetable Processing

Attendance Sheet

Roll No.	Name of the student	3/12/21	4/12/21	6/12/21	7/12/21	8/12/21	9/12/21	10/12/21	11/12/21	12/12/21	16/12/21
8001/21	Aarde Puja Manohar	Puja	Puja	Puja	—	Puja	Puja	Puja	—	Puja	Puja
8002/21	Baraf Sarita Kashiram	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita	Sarita
8003/21	Budhar Manoj Kamalakar	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
8004/21	Gavali Harshala Suresh	Gavali	Gavali	Gavali	Gavali	—	Gavali	Gavali	Gavali	Gavali	Gavali
8005/21	Jabar Tushar Somnath	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar
8006/21	Jadhav Sunayana Badelal	Sunayana	Sunayana	—	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana
8007/21	Maule Sandesh Rajaram	MR	MR	MR	MR	—	MR	MR	MR	—	MR
8008/21	Navale Apeksha Keshav	A Navale	A Navale	A Navale	A Navale	A Navale	—	A Navale	—	—	A Navale
8009/21	Padher Sachin Sonu	SP	SP	SP	SP	—	SP	SP	—	SP	SP
8010/21	Patil Dipali Ashok	Dipali	Dipali	Dipali	Dipali	Dipali	Dipali	Dipali	Dipali	—	Dipali
8011/21	Patil Sakshi Sanjay	Patil	Patil	Patil	Patil	—	Patil	Patil	—	Patil	Patil
8012/21	Satpute Karan Manohar	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan
8013/21	Wagh Yamini Hiranman	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	—	Wagh
8014/21	Warghade Jyotika Bhagwan	Jyoti	Jyoti	—	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti

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Fruit and Vegetable Processing

Attendance Sheet

Roll No.	Name of the student	20/12/21	21/12/21	24/10/21	1/1/22	3/1/22	4/1/22	5/1/22	6/1/22	10/1/22	11/1/22
8001/21	Aarde Puja Manohar	Puja	-	Puja	-	-	Puja	Puja	Puja	Puja	Puja
8002/21	Baraf Sarita Kashiram	Sarita	Sarita	Sarita	-	-	Sarita	Sarita	Sarita	-	-
8003/21	Budhar Manoj Kamalakar	MB	MB	MB	MB	MB	MB	MB	MB	MB	MB
8004/21	Gavali Harshala Suresh	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali
8005/21	Jabar Tushar Somnath	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar	Jabar
8006/21	Jadhav Sunayana Badelal	Sunayana	-	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana
8007/21	Maule Sandesh Rajaram	MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR
8008/21	Navale Apeksha Keshav	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale	Aknavale
8009/21	Padher Sachin Sonu	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
8010/21	Patil Dipali Ashok	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8011/21	Patil Sakshi Sanjay	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8012/21	Satpute Karan Manohar	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan	Karan
8013/21	Wagh Yamini Hiranman	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh
8014/21	Warghade Jyotika Bhagwan	BW	-	-	-	BW	BW	BW	BW	BW	BW

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Fruit and Vegetable Processing

Attendance Sheet

Roll No.	Name of the student	12/1/22	13/1/22	14/1/22	15/1/22	16/1/22	17/1/22	18/1/22	19/1/22	20/1/22	21/1/22	22/1/22	23/1/22
8001/21	Aarde Puja Manohar	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja	Puja
8002/21	Baraf Sarita Kashiram												
8003/21	Budhar Manoj Kamalakar												
8004/21	Gavali Harshala Suresh	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali	Gavali
8005/21	Jabar Tushar Somnath	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8006/21	Jadhav Sunayana Badelal	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana	Sunayana
8007/21	Maule Sandesh Rajaram												
8008/21	Navale Apeksha Keshav	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale	Navale
8009/21	Padher Sachin Sonu	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
8010/21	Patil Dipali Ashok	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8011/21	Patil Sakshi Sanjay	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8012/21	Satpute Karan Manohar	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
8013/21	Wagh Yamini Hiranman	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh	Wagh
8014/21	Warghade Jyotika Bhagwan	Bu	Bu	Bu	Bu	Bu	Bu	Bu	Bu	Bu	Bu	Bu	Bu


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Rayat Shikshan Sanstha's

Arts, Science and Commerce College, Mokhada Dist. Palghar

Department of Botany

Short Term Course- USB001 Fruit and Vegetable Processing

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. Nitric oxide
- c. Sulphuric acid
- 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. 60 to 70
- c. 70 to 80
- d. 40 to 60

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

- a. Compatability
- 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
- c. endocarp



19. Quality parameter for vegetables and fruits are-----.
- a. **appearance & texture**
 - b. flavor & nutritive value
 - c. both a & b
 - d. all of these
20. The controlled atmosphere storage maintains -----.
- a. **higher CO₂ & lesser O₂**
 - b. lesser O₂ & CO₂
 - c. higher O₂ & CO₂
 - d. none of these
21. 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
22. ----- 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. **squash**
25. Preservation by ----- is very old method.
- a. **Fermentation**
 - b. heating
 - c. cooling
 - d. none



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Department of Botany



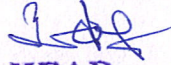
Date: 04/03/2022


Short term course
Fruit and vegetable processing
Students Marks List 2021-2022

Sr.No.	Roll No.	Name of the students	Practical 50	Theory 50	Total 100
1	8001	Aarde Puja Manohar	45	46	91
2	8002	Baraf Sarita Kashiram	--	--	--
3	8003	Budhar Manoj Kamalakar	--	--	--
4	8004	Gawali Harshala Suresh	48	48	96
5	8005	Jabar Tushar Somnath	38	42	80
6	8006	Jadhav Sunayana Badelal	42	46	88
7	8007	Maule Sandesh Rajaram	38	40	78
8	8008	Navale Apeksha Keshav	46	42	88
9	8009	Padher Sachin Sonu	38	36	74
10	8010	Patil Dipali Ashok	36	38	74
11	8011	Patil Sakshi Sanjay	44	46	90
12	8012	Satpute Karan Manohar	42	44	86
13	8013	Wagh Yamini Hiranman	46	46	92
14	8014	Warghade Jyotika Bhagwan	--	--	--


Course Coordinator



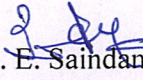

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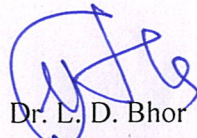


Report of Short-Term Course

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	22/11/2021
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	14
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
Department of Botany,
Arts, Science & Com. College
Mokhada, Dist. Palghar




Dr. L. D. Bhor
Principal
PRINCIPAL
Arts Science and Commerce College
Mokhada, Dist. Palghar



502

Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabhodhini

CERTIFICATE

This is to certify that Shri / Smt **Wagh Yamini Hiraman**

..... (Class **S.Y.B.Sc.**) of

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

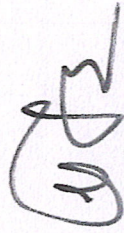
Mokhada Dist. Palghar has successfully completed

a short term course in **Fruit and Vegetable Processing**

Academic year **2021** **2022** (From **01/10/2021** To **28/02/2022**) and

secured **A** Grade.





PRINCIPAL
Arts Science and Commerce College
Mokhada, Dist. Palghar



Executive Director
Karmaveer Vidya Prabhodhini



Chairman
Karmaveer Vidya Prabhodhi



**Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini**

CERTIFICATE

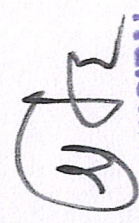
This is to certify that Shri / Smt Moule Sandesh Rajaram
..... (Class S.Y. B.Sc.) of

(College) Arts, Science and Commerce College, Mokhada

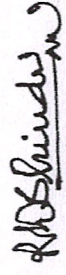
Dist. Palghar has successfully completed
a short term course in fruit and Vegetable Processing

Academic year 2021 2022 (From 01/10/2021 To 28/02/2022) and

secured A Grade.



PRINCIPAL
Arts Science and Commerce College
Mokhada, Dist. Palghar



Executive Director
Karmaveer Vidya Prabodhini





Chairman
Karmaveer Vidya Prabodhi



495

Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini

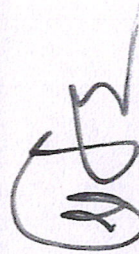
CERTIFICATE

This is to certify that Shri / Smt **Jadhav Sunayana Badelal**
..... (Class **S.Y.B.Sc.**) of

(College) **Arts, Science and Commerce College, Mokhada**

Dist. Palghar has successfully completed
a short term course in **fruit and Vegetable Processing**

Academic year **2021** **2022** (From **01/10/2021** To **28/02/2022**) and
secured **A** Grade.


PRINCIPAL

Arts Science and Commerce College
Mokhada, Dist. Palghar



Executive Director
Karmaveer Vidyaprabodhini





Chairman
Karmaveer Vidyaprabodhi



494

Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini

CERTIFICATE

This is to certify that Shri / Smt **Jabar Tushar Somnath**
..... (Class **S.Y.B.Sc.**) of

(College) **Arts, Science and Commerce College, Mokhada**


..... **Dist. Palghar**

..... has successfully completed

a short term course in **Fruit and Vegetable Processing**

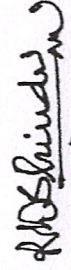
Academic year **2021** **2022** (From **01/10/2021** To **28/02/2022**) and

secured **A** Grade.


PRINCIPAL

Arts
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Executive Director

Karmaveer Vidyaprabodhini



Chairman

Karmaveer Vidyaprabodhi

Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini

CERTIFICATE

This is to certify that Shri / Smt. Gavali Harshala Suresh
 (Class S.Y. B.Sc.) of

(College) Arts, Science and Commerce College, Mokhada

Dist. Palghar has successfully completed

a short term course in Fruit and Vegetable Processing

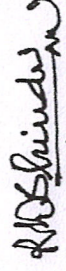
Academic year 2021 - 2022 (From 01/10/2021 To 28/02/2022) and

secured A Grade.


PRINCIPAL

Arts Science and Commerce College
 Mokhada, Dist. Palghar





Executive Director
 Karmaveer Vidyaprabodhini



Chairman
 Karmaveer Vidyaprabodhini