

**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



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

स्यत शिक्षण संस्थेचे,

कला , विज्ञान व वाणिज्य महाविद्यालय मोखाडा. जि-पालघर.

ता. मोखाडा, जि.पालघर.

प्राचार्य,डॉ. जे जी जाधव.

(M.A,M.Phil,Ph.D)

दि.०९/१०/२०१८

सूचना

(Short Term Course-"Fruit and Vegetable Processing")

महाविद्यालयातील विज्ञान विभागाच्या विभागप्रमुख व शिक्षकांची कळविण्यात येते की BVG India कंपनीकडील "Fruit and Vegetable Processing" हा Short term Course आपल्या महाविद्यालयात चालू करण्यात आला आहे तरी या कोर्से साठी आपण आपल्या विभागातील प्रत्येकी १० विद्यार्थींची नावे व ३०० रु फी प्रमाणे यादी गुरुवार दि ११/१०/२०१८ रोजी प्रा. गोजारे एस. एम याचेकडे द्यावीत. याची सर्व विभागप्रमुख व शिक्षकांची नोंद घ्यावी.



प्राचार्य
कला, विज्ञान व वाणिज्य महाविद्यालय
मोखाडा, जि. पालघर

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Mokhada, Dist. Palghar

Short Term Course-Fruit & Vegetable Processing

Time Table

Sr No	Time/ Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10:00 am to 11:00 am	Prof. Gojare S M	Prof. Mamalya A B	Prof. Gandule A S	Prof. Gadhave V V/ Prof. Warghade J B	Prof. Sonawane P T	Prof. Saidanshiv E S



[Signature]
HEAD
 Department of Botany,
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Syllabus



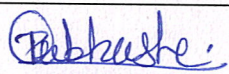

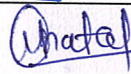
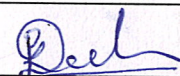
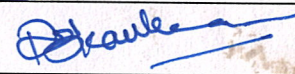
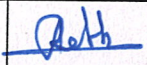
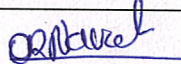
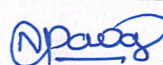
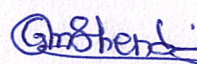


Fruits & Vegetable Processing Course


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.
- ✓ 2. Need, Status & scope of Fruits & vegetable industry in India-
- ✓ 3. Fruit Specific processing & preservation technology-
- ✓ 4. Vegetable specific processing technology-
- ✓ 5. Milk & Milk Product Processing
6. Quality Control / Quality assurance & International trade-
- ✓ 7. Processing Machineries
- ✓ 8. Packaging materials & Machinery-
- ✓ 9. Waste management-
- ✓ 10. Fruits Cutting / Decoration and Presentation
11. Food Process management
- ✓ 12. Market Survey, Market research & Market Strategies
- ✓ 13. Project report preparation / Business plan preparation
14. Rules & Regulation, Food laws (FSSAI 2006)-
- ✓ 15. Bank role , Procedure , Documentation

Rayat Shikshan Sanstha's
Arts Science and Commerce College Mokhada
Tal-Mokhada, Dist. Palghar
2018-19
Department of Botany
A Short Term Course
Fruit & Vegetable Processing


1.Date-

2. Unit

S. N.	Name of the Student	Signature
1	/Dubhashe Pratiksha Namdev	
2	/Gare Rani Ramdas	
3	/Ghatal Manali Parashuram	
4	Kadu Dhananjay Parshuram	
5	Kaule Dnyaneshwar Bhau	
6	/Kothe Aishwarya Krishna	
7	/Navale Vaishali Rajaram	
8	/Pawar Nalini Bhanudas	
9	/Shende Gauri Madhukar	
10	/Ughade Harshada Santu	
11	/Wagh Pranali Nandkumar	


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Principal
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Arts Science and Commerce College Mokhada

Tal-Mokhada, Dist. Palghar

2018-19

Department of Botany

A Short Term Course

Fruit & Vegetable Processing**Student Attendance**

S. N.	Name of the Student	Date											
1	/Dubhashe Pratiksha Namdev	19/3/19	20/3/19	22/3/19	23/3/19	25/3/19	26/3/19	27/3/19	28/3/19	29/3/19	30/3/19	1/04/19	02/4/19
2	/Gare Rani Ramdas												
3	/Ghatal Manali Parashuram												
4	Kadu Dhananjay Parshuram												
5	Kaule Dnyaneshwar Bhau												
6	/Kothe Aishwarya Krishna												
7	/Navale Vaishali Rajaram												
8	/Pawar Nalini Bhanudas												
9	/Shende Gauri Madhukar												
10	/Ughade Harshada Santu												
11	/Wagh Pranali Nandkumar												



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Rayat Shikshan Sanstha's
Arts Science and Commerce College Mokhada
 Tal-Mokhada, Dist. Palghar
 2018-19

Department of Botany
 A Short Term Course
Fruit & Vegetable Processing
Student Attendance

S. N.	Name of the Student	Date											
		16/11/19	17/11/19	18/11/19	19/11/19	21/11/19	22/11/19	23/11/19	24/11/19	25/11/19	27/11/19	29/11/19	30/11/19
1	/Dubhashe Pratiksha Namdev	Pratiksha	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe	Dubhashe
2	/Gare Rani Ramdas	Rani	Gare	Gare	Gare	Gare	Gare	Gare	Gare	Gare	Gare	Gare	Gare
3	/Ghatal Manali Parashuram	Manali	Ghatal	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali
4	Kadu Dhananjay Parshuram	Dhananjay	Kadu	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay
5	Kaule Dnyaneshwar Bhau												
6	/Kothe Aishwarya Krishna	Aishwarya	Kothe	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
7	/Navale Vaishali Rajaram	Vaishali	Navale	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali
8	/Pawar Nalini Bhanudas	Nalini	Pawar	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini
9	/Shende Gauri Madhukar	Gauri	Shende	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri
10	/Ughade Harshada Santu	Harshada	Ughade	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
11	/Wagh Pranali Nandkumar	Pranali	Wagh	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali



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Arts Science and Commerce College Mokhada
 Tal-Mokhada, Dist. Palghar
 2018-19

Department of Botany

A Short Term Course

Fruit & Vegetable Processing

Student Attendance

S. N.	Name of the Student	Date												
		01/2/19	02/2/19	03/2/19	04/2/19	05/2/19	06/2/19	07/2/19	08/2/19	09/2/19	11/2/19	12/2/19	13/2/19	14/2/19
1	/Dubhashe Pratiksha Namdev	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
2	/Gare Rani Ramdas	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani	Rani
3	/Ghatal Manali Parashuram	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali
4	Kadu Dhananjay Parshuram	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay	Dhananjay
5	Kaule Dnyaneshwar Bhu													
6	/Kothe Aishwarya Krishna	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
7	/Navale Vaishali Rajaram	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali	Vaishali
8	/Pawar Nalini Bhanudas	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini
9	/Shende Gauri Madhukar	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri	Gauri
10	/Ughade Harshada Santu	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
11	/Wagh Pranali Nandkumar	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali

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Arts Science and Commerce College Mokhada

Tal-Mokhada, Dist. Palghar

2018-19

Department of Botany*A Short Term Course***Fruit & Vegetable Processing****Student Attendance**

S. N.	Name of the Student	Date											
1	/Dubhashe Pratiksha Namdev	15/12/19	16/12/19	18/12/19	20/12/19	21/12/19	22/12/19	23/12/19	25/12/19	26/12/19	27/12/19	28/12/19	31/12/19
2	/Gare Rani Ramdas	15/12/19	16/12/19	18/12/19	20/12/19	21/12/19	22/12/19	23/12/19	25/12/19	26/12/19	27/12/19	28/12/19	31/12/19
3	/Ghatal Manali Parashuram	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Kadu Dhananjay Parshuram	Dech	Dech	Dech	Dech	Dech	Dech	Dech	Dech	Dech	Dech	Dech	Dech
5	Kaule Dnyaneshwar Bhau												
6	/Kothe Aishwarya Krishna	Att.	Att.	Att.	Att.	Att.	Att.	Att.	Att.	Att.	Att.	Att.	Att.
7	/Navale Vaishali Rajaram	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
8	/Pawar Nalini Bhanudas	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	/Shende Gauri Madhukar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	/Ughade Harshada Santu	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	/Wagh Pranali Nandkumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present


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Arts Science and Commerce College Mokhada
 Tal-Mokhada, Dist. Palghar
 2018-19

Department of Botany
 A Short Term Course
Fruit & Vegetable Processing
Student Attendance

S. N.	Name of the Student	Date											
		5/3/19	6/3/19	7/3/19	8/3/19	9/3/19	11/3/19	12/3/19	13/3/19	14/3/19	15/3/19	16/3/19	18/3/19
1	/Dubhashe Pratiksha Namdev	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	/Gare Rani Ramdas	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	/Ghatal Manali Parashuram	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Kadu Dhananjay Parshuram	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Kaule Dnyaneshwar Bhau												
6	/Kothe Aishwarya Krishna	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	/Navale Vaishali Rajaram	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	/Pawar Nalini Bhanudas	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	/Shende Gauri Madhukar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	/Ughade Harshada Santu	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	/Wagh Pranali Nandkumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present



[Signature]
Principal
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Rayat Shikshan Sanstha's

Arts, Science & Commerce College, Mokhada, Dist. Palghar
Fruit & Vegetable Processing(Short term Course) Examination May-2019

Date:10/05/2019

Total Marks:- :100

Time:- 3: 00 Hours

- N .B. : (1) All Question are Compulsory.
(2) All Questions carry equal marks.
(3) Draw neat labeled **diagram** wherever necessary.

- Q.1. Answer any two from the following** 16 Marks
- a) Describe in detail about Scope & importance of Fruit & Vegetable
b) Define Osmotic dehydration .Describe detail about Process of Osmotic dehydration in Fruit & Vegetable
c) Describe in detail about Preparation & Preservation of Jam
- Q.2. Answer any two from the following** 16Mark
- a) Define Pasteurization. Describe in detail about Method of Milk Pasteurization
b) Describe in detail about preparation of Cheese
c) Describe in detail about Process Cream Separation from Milk
- Q.3. Answer any two from the following** 16 Marks
- a) Describe in detail about good manufacturing practices
b) Describe in detail about export quality control & inspection system for food
c) Describe in detail about preprocessing steps –Converting raw foods to ingredients
- Q.4. Answer any two from the following** 16 Marks
- a) Define processing machinery. Describe in detail about airlocks, Blancher, boiling pans, bottle coolers, corers
b) Define processing machinery. Describe in detail about Filter, fruit crushers, heat sealers, hydrometer, jam thermometer
c) Define processing machinery. Describe in detail about PH meter, peelers, pressure cokers, protective gloves
- Q.5. Answer any two from the following** 16 Marks
- a) Define fruit waste management. Describe any two methods of fruit waste management
b) Define biodiesel .Describe the process of biodiesels
c) Define biosorption. Describe the process of biosorption
- Q.6. Write short notes on (any four)** 20 Marks
- a) Trimming & peeling
b) Market Survey
c) Detentions & rejection in food export
d) Rule & regulation for Fruit & Vegetable processing
e) Fruit & Vegetable carving Class
f) Bank Role in Fruit & Vegetable processing

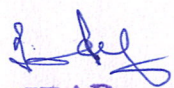
Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada,
Tal. Mokhada Dist. Palghar
Department of Botany
Short Term Course Examination (2018-19)


Fruit and Vegetable processing

Result

Sr.No.	Roll No.	Name of the students	Marks Practical out of 50	Marks theory out of 50	Total marks
1	9801	DUBHASHE PRATIKSHA NAMDEV	42	40	82
2	9802	GARE RANI RAMDAS	40	41	81
3	9803	GHATAL MANALI PARASHURAM	44	45	89
4	9804	KADU DHANANJAY PARASHURAM	40	38	78
5	9805	KAULE DNYANESHWAR BHAU	AB	AB	AB
6	9806	KOTHE AISHWARYA KRISHNA	38	41	79
7	9807	NAVALE VAISHALI RAMDAS	41	40	81
8	9808	PAWAR NALINI BHANUDAS	AB	AB	AB
9	9809	SHENDE GAURI MADHUKAR	41	41	82
10	9810	UGHADE HARSHADA SANTA	41	38	79
11	9811	WAGH PRANALI NANDKUMAR	40	41	81




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Rayat Shikshan Sanstha's

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

Short term course: Fruit and vegetable processing 2018-19

The short term course entitled Fruit and Vegetable Processing was conducted by the department of Botany to develop the skills of processing of fruits and vegetables in the students. Total 11 students of T.Y.B.Sc. Botany was enrolled to this course. During this course various techniques of processing of fruits and vegetable were taught to the students via theory and practical. Participated students' performance was assessed by examination during this course. Nine students have passed in the examination and successfully completed the course.



[Handwritten Signature]

HEAD

**Department of Botany,
Arts, Science & Com College
Mokhada, Dist**

[Handwritten Signature]

Principal

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



Founder : Karmaveer
Bhaurao Patil

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 Miss. **DUBHASHE PRATIKSHA NAMDEV** of class **T.Y.B.Sc. (Botany)** has successfully completed short term course entitled **"Fruit and vegetable processing"** in academic year 2018-19 conducted by Department of Botany, Arts, Science and Commerce College, Mokhada.

Prof. S. M. Gojare
Coordinator &
Head, Dept. of Botany

Dr. J. G. Jadhav
Principal