

Sonopant Dandekar Shikshan Mandali's Sonopant Dandekar Arts, V.S. Apte Commerce & M.H. Mehta Science College, Palghar

Department of Botany

Certificate Course

FOOD AND VEGETABLE PROCESSING

Year 2021 - 22

Sonopant Dandekar Shikshan Mandali's SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND M.H. MEHTA SCIENCE COLLEGE, Palghar.

Department of Botany

Date: 22th February, 2022

To,
The Principal
Dr. Kiran Save
Sonopant Dandekar Arts, V.S. Apte Commerce and
M.H. Mehta Science College,
Palghar.

Subject: Proposal for Organizing Course in FOOD AND VEGETABLE PROCESSING

Name of the Programme: FOOD AND VEGETABLE PROCESSING

Organizer: Department of Botany

Proposed Day & Dates –Monday, 7th March, 2022 Objectives –

- to preserve the color, flavor, texture, and nutrition while prolonging the shelf life of perishable fruits and vegetables
- to supply wholesome, safe, nutritious and acceptable food to consumers throughout the year
- To illustrate the scope and challenges of global mangrove forest towards sustainability.

Faculty In-charge- Prof. B.N. Jaiswal

Proposed Venue: Botany Main Lab

Proposed By

Prof. B.N. Jaiswal

Head, Department of Botany

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Sonopant Dandekar Shikshan Mandali's

SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND M.H. MEHTA SCIENCE COLLEGE, PALGHAR

Palghar, Dist. – Palghar, Pin – 401 404, E – Mail: sdsmcollege@yahoo.com

Date- 25-02-2022

Department of Botany

Notice

All the Student of UG Botany are hereby informed that department of botany is arranging a certificate course on "FOOD AND VEGETABLE PROCESSING" in Botany Lab from 07.03.2022.

The fee for above course is **R.s. 50**

After successful Completion of the Course and Examination, Participants will get Certificate from College for more details kindly contact Department of Botany.

Venue – Botany Lab, SDSM College

Prof. B.N. Jaiswal

(Head Dept. of Botany)

Course Content

Background

A food Processing Technician is responsible for processing food items and vegetables to make different products by receiving, checking raw material quality, sorting, pulping, pasteurizing, cooking, juice extracting, clarifying, filtering, sampling for quality analysis, cooling, packaging, and storing. This food Processing Technician course is designed to enable training for aspiring professionals in the food processing industry. This course also enables the instructors to develop instructional skills for mentoring the trainees, engaging all trainees in learning process and managing effective utilization of resources

About Department

The Department of Botany started in 2006 for UG students. For aspirants of higher students, I plant science like plant genetics, Molecular biology, plant biotechnology, plant physiology, plant pathology, plant taxonomy and plant ecology, etc. The department having the botanical garden depository herbarium and Practical lab

Aim & Objective

- To provide a comprehensive understanding of the fundamental principles of fruits and vegetables processing.
- To equip students with knowledge and hands-on skills in various processing techniques.
- To teach the importance of quality control and maintain nutritional value and ensure Food safety.

Course Expected Outcomes

On completion of the course the student will be able to

- Identify the spoilage in food and vegetables and state the reason for the spoilage following safety precaution
- Identify and select fresh food and vegetables with the help of checklist
- Prepare, preserve and store food and vegetable products and marmalades by using appropriate machines such as pulper, autoclave & sealer with safety precautions, determine acidity and TSS content, pectin test

Duration

- Total hours- 35
- Lecture 35 hours
- Attendance 75% of attendance is compulsory

Eligibility and Fees

- B.Sc. (Life Science) students
- Fees- Rs 50

Faculty

- Prof. B.N. Jaiswal
- Asst.Prof. Asmita P. Raut
- Asst.prof. Dakshata Patil
- Dr. Viraj Chabake

Brochure



Sonopant Dandekar Shikshan Mandali's

Sonopant Dandekar Arts, V. S. Apte Commerce and M. H. Mehta Science College. Palghar

DEPARTMENT OF BOTANY

Certificate Course in FOOD AND VEGETABLE PROCESSING

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 - Duration 35 hours



7.3.2022

FOR MORE INFO CONTACT NOW Asst. Prof. Harshal Chaudhari 7875869945

SYLLABUS

SYLLABUS

Chapter -1

- Status and scope of food products and vegetable industry in India
- Definition of Acids, Alkalis, solutions, Titration, pH and salts, their properties etc. Composition and nutritive value of food products and vegetable.
- Effects of pre-treatment on quality of food items and cut vegetables

Chapter-2

• General methods of preservation of whole food products/vegetables and processed vegetables

Chapter-3

- Different types of spoilages in food products and vegetables
- Importance of personal Hygiene, Cleaning & Sanitary standards in Food and Vegetable processing industry

Chapter- 4

Technology of extraction of juices from different types

SYLLABUS COVER

Day	Day	Topic	Sessions
1	07.03.2022	Status and scope of food industry in India Definition of Acids, Alkalis, solutions, Titration, pH and salts, their properties etc. Composition and nutritive value of fruits and vegetable.	2.30hrs.
2	08.03.2022	Status and scope of vegetable industry in India Definition of Acids, Alkalis, solutions, Titration, pH and salts, their properties etc. Composition and nutritive value of fruits and vegetable.	2.30hrs.
3	09.03.2022	Definition of Acids, Alkalis, solutions, Titration, pH and salts, their properties etc. Composition and nutritive value of fruits and vegetable.	2.30hrs.
4	10.03.2022	Definition of Acids, Alkalis, solutions, Titration, pH and salts, their properties etc. Composition and nutritive value of fruits and vegetable. Different types of spoilages in fruits and vegetables	2.30hrs.
5	11.03.2022	General methods of preservation of whole food products	2.30hrs.
6	12.03.2022	General methods of preservation of whole vegetables and processed vegetables Technology of extraction of juices from different types	2.30hrs.
7	14.03.2022	Importance of personal Hygiene, Cleaning & Sanitary standards in Fruits processing industry	2.30hrs.
8	15.03.2022	Importance of personal Hygiene, Cleaning & Sanitary standards in Vegetable processing industry	2.30hrs.
9	16.03.2022	Current trends in food processing industry	2.30hrs.
10	17.03.2022	Current trends in vegetable processing industry	2.30hrs.
11	19.03.2022	Composition and nutritive value of food products and vegetable.	2.30hrs.
12	21.03.2022	Composition and nutritive value of food products and vegetable.	2.30hrs.
13	22.03.2022	Career opportunities	2.30hrs.
14	23.03.2022	Assessment	2.30hrs.
15	24.03.2022	Test	2.30hrs.

List of Student participation

Sr.	Roll	Name of Student	Class
No.	No.		
1	2001	VARTAK NIDHI MAHESH	F.Y.B.Sc
2	2002	MACHHI SAHIL MANIRAM	F.Y.B.Sc
3	2003	SINGH SHIVAM KEDARNATH	F.Y.B.Sc
4	2004	KUNTAL MADHU RADHESHYAM	F.Y.B.Sc
5	2006	SANKHE SIDDHI AVINASH	F.Y.B.Sc
6	2007	MHATRE PRIYA KISHOR	F.Y.B.Sc
7	2011	SINHA VISHAL AZAD	F.Y.B.Sc
8	2012	SURVE MONALI HANMANT	F.Y.B.Sc
9	2013	WADEKAR VEDIKA SADANAND	F.Y.B.Sc
10	2014	TIWARI SALVI OMPRAKASH	F.Y.B.Sc
11	2019	BANSODE SAKSHI SAMBHAJI	F.Y.B.Sc
12	2020	KUDU VAISHNAVI VILAS	F.Y.B.Sc
13	2021	SAROJ AAJAD HAWALDAR SAROJ	F.Y.B.Sc
14	2023	PATIL DHRUVIKA DINESH	F.Y.B.Sc
15	2024	BARI ALPITA MAHESH	F.Y.B.Sc
16	2025	SOLANKI DIMPLE MAHESH	F.Y.B.Sc
17	2026	PIMPLE SHRADDHA MADHUKAR	F.Y.B.Sc
18	2027	PATIL SAMRUDDHI VIJAY	F.Y.B.Sc
19	2057	BARI VAISHNAV DHIRAJ	F.Y.B.Sc
20	2058	PATIL SAMRUDDHI ANAND	F.Y.B.Sc
21	2059	RAUT JIDNYASA JITENDRA	F.Y.B.Sc
22	2060	PATEL NIDHI RAJESH	F.Y.B.Sc
23	2064	MHATRE DIYA HEMCHANDRA	F.Y.B.Sc
24	2301	JADHAV ISHA KETAN	S.Y.B.Sc
25	2303	CHOTHANI BHAVIN RATILAL	S.Y.B.Sc
26	2314	KAMADI YUVRAJ NARAYAN	S.Y.B.Sc
27	2317	BARI KRUTIKA KAMALAKAR	S.Y.B.Sc
28	2318	KUVARE PRADIP KRUSHNA	S.Y.B.Sc
29	2321	TELI SHWETA JAYRAM	S.Y.B.Sc
30	2406	MACHHI ASHWINI SUBHASH	S.Y.B.Sc
31	2323	JADHAV JANHAVI HARESHWAR	S.Y.B.Sc
32	2324	THAKUR ISHA GIRISH	S.Y.B.Sc
33	2326	YADAV AJAY RAJESHKUMAR	S.Y.B.Sc
34	2340	KAWAR ANIKET MADHUKAR	S.Y.B.Sc
35	2341	THAKUR RAVINDRAKUMAR RAMBABU	S.Y.B.Sc
36	2710	SINGH PARVATI ANILKUMAR	T.Y.B.Sc
37	2706	CHAUDHARI TEJAS NARHAR	T.Y.B.Sc
38	2716	TIWARI ABHILASHAKUMARI	T.Y.B.Sc
50	2,10	KRISHNAKANT	
39	2662	KATWATE GAURANGI PURUSHOTTAM	T.Y.B.Sc
40	26030	RANE SURABHI MOHAN	T.Y.B.Sc



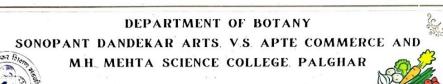
Attendance

			140 00 0000	45 02 2022	16.03.2022	17.03.2022	19.03.2022	23.03.2022	24.03.2022
Roll No.	Name of Student	Class	12.03.2022	15.03.2022	16.03.2022	Malus.	Nicht	Nidbi-	NEDAL
2001	VARTAK NIDHI MAHESH	F.Y.B.Sc	Mapy	Night-	Shush		Sh. 181.	South	- Sus
2002	MACHHI SAHIL MANIRAM	F.Y.B.Sc	- Ancest	- grust		Bush	- chu su-		ca himma
2003	SINGH SHIVAM KEDARNATH	F.Y.B.Sc	AB	Schivary	SSLVals	sshivan	AB	Mahdha.	Madhy.
2004	KUNTAL MADHU RADHESHYAM	F.Y.B.Sc	wadhu.	Madhe.	Madhy.	AB	Mahhe.	Siddle.	2)doh
2006	SANKHE SIDDHI AVINASH	F.Y.B.Sc	Biddhi	Siddhi	siddhi	giddhi	· AB	\$00	
2007	MHATRE PRIYA KISHOR	F.Y.B.Sc	Priya	Driva		buto	bula	+ 1	Busto
2011	SINHA VISHAL AZAD	F.Y.B.Sc	July 1	June 1	James.	Jan	trust	Jank	1
2012	SURVE MONALI HANMANT	F.Y.B.Sc	Monali	Monal	Monali	AB	Monali	Monal:	Mona
2013	WADEKAR VEDIKA SADANAND	F.Y.B.Sc	Vedika	Vedika	AB	Vedika	-	Medika	redika
2014	TIWARI SALVI OMPRAKASH	F.Y.B.Sc	Dabri	galia	John	John	galvi	Loyn	John
2019	BANSODE SAKSHI SAMBHAJI	F.Y.B.Sc	Housade	Showsode		-		Maishi	Hoorson
2020	KUDU VAISHNAVI VILAS	F.Y.B.Sc	Vaishu	vaish	vaish	vaishu	vaishu	1	voish
2021	SAROJ AAJAD HAWALDAR SAROJ	F.Y.B.Sc	And.	Dog.	And	Brok	And.	Day.	
2023	PATIL DHRUVIKA DINESH	F.Y.B.Sc	DHRUVIKA:	DHRWIKA		DHRWITA	DHRUVIKA		DHRUVI
2024	BARI ALPITA MAHESH	F.Y.B.Sc	Alosta	Alpitor	Alpita	Alpto	Alpita	Alpita	N' - 1
2025	SOLANKI DIMPLE MAHESH	F.Y.B.Sc	Dimole	`	Dimple	Dinble	@Dilibe	Dimpe	Ding
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2027	PATIL SAMRUDDHI VIJAY	F.Y.B.Sc	Bene	Sund	Bull	Sound	Jami,	4	Zame
2057	BARI VAISHNAV DHIRAJ	F.Y.B.Sc	15-	pr.	m	AB	1	1	- A
2058	PATIL SAMRUDDHI ANAND	F.Y.B.Sc	gerneudhi	Santudli	Samuelhi	Samedli	AB	Sanedhi	
2059	RAUT JIDNYASA JITENDRA	F.Y.B.Sc	TOUT	Trut	Rutt	Rutt	Koute	Sur	AB

2050	PATEL NIDHI RAJESH	F.Y.B.Sc	Podel	Rotel	AB	Rada	Partel	Portel	ROHE
2060	MHATRE DIYA	F.Y.B.Sc			Juga	Diya	Diya	Diye	AB
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2303	CHOTHANI BHAVIN RATILAL	S.Y.B.Sc	Bhauin	Bhowin	AB	Bherrin		Bheuin_	Bhew!
2314	KAMADI YUVRAJ NARAYAN	S.Y.B.Sc	4- kamady	W. Kamali.	Y. Kamoul!	Y-kamadi	Y. Kamadi	Y' Kamod!	-1.00
2317	BARI KRUTIKA KAMALAKAR	S.Y.B.Sc	koutika	knutika	koutika	Krutika	AB	koulika	Koutik
2318	KUVARE PRADIP KRUSHNA	S.Y.B.Sc	Preudip	AB	Pradip	AB	Pradip Teli	Teli	Pradi
2321	TELI SHWETA JAYRAM	S.Y.B.Sc	Teli	Teli	Tell	N/D	leu	1600	
2406	MACHHI ASHWINI SUBHASH	S.Y.B.Sc	Aswini .	Aswini	AB	Powini	Aswini	- 11	Aswin
2323	JADHAV JANHAVI HARESHWAR	S.Y.B.Sc	Jadhan	Tenthau			John	Jackey	Dour
2324	THAKUR ISHA GIRISH	S.Y.B.Sc	Jisha	Joha	Jsha	Jsha	30110		-0:
2326	YADAV AJAY RAJESHKUMAR	S.Y.B.Sc	Along.	Ajay	AB	Ajan	Diay	Ajaly	Ajen
2340	KAWAR ANIKET MADHUKAR	S.Y.B.Sc	Aniket	Anitel	Anikot	Aniket	Aniket	Anikeb	Anike
2341	THAKUR RAVINDRAKUMAR RAMBABU	S.Y.B.Sc	Ruindra	Raylingto	Pellint	AB.	Powire	AB	AB
2710	SINGH PARVATI ANILKUMAR	T.Y.B.Sc	singh	Singh	Singh	Singh	AB	Singh	AP
2706	CHAUDHARI TEJAS NARHAR	T.Y.B.Sc	Teal	Teign	Telepe	AB	1B	Tejas.	43
2716	TIWARI ABHILASHAKUMARI KRISHNAKANT	T.Y.B.Sc	Twent	AB	Tiwari	Tiwar	Tiwan	AB	Twee

2662	KATWATE GAURANGI PURUSHOTTAM	T.Y.B.Sc	Gaurang	Garra noi)	Germangi	Causand)	Gourana	Paine	Comp
26030	RANE SURABHI MOHAN	T.Y.B.Sc	Kouro	Reene	Kane	AB	Tellie		

Certificate



CERTIFICATE

PROUDLY PRESENT TO

Miss. Nidhi Mahesh Vartak

For successfully participating and completing course in 'FOOD AND VEGETABLE PROCESSING'

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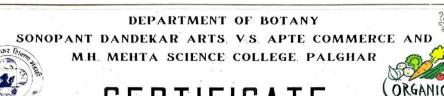
Binai T.

PROF. B.N .JAISWAL HEAD, DEPARTMENT OF BOTANY

DR. KIRAN SAVE

PRINCIPAL





CERTIFICATE

PROUDLY PRESENT TO

Mr. Aniket Madhukar Kawar

For successfully participating and completing course in 'FOOD AND VEGETABLE PROCESSING'

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PROF. B.N .JAISWAL HEAD, DEPARTMENT OF BOTANY

Mare

DR. KIRAN SAVE PRINCIPAL

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Report

This course provides a comprehensive overview of food vegetable processing techniques and technologies. Through a combination of lectures, laboratory sessions, and hands-on practical exercises, students will learn the principles of vegetable processing, including cleaning, sorting, cutting, blanching, preservation, and packaging. Emphasis is placed on understanding the factors affecting vegetable quality, safety, and shelf-life during processing, as well as the application of processing methods to enhance nutritional value and consumer appeal. Forty students completed this course.

Course Structure:

Duration: 35 Hours

Format: Lectures, discussions, case studies, Test

Date of commencement: 07-03-2022 **Date of completion:** 24-03-2022

Reference Book

 Fruit And Vegetable Preservation Principles and Practices Revised and Enlarged 3Ed by Srivastava

• Food Processing and Preservation by G Subbulakshmi

Marks Bifurcation of Certificate course

- 1. Online MCQ -25 Marks (25questions 1Mark each)
- 2. Assignment work -25 Marks
- 3. Presentation- 30 marks

Grading System

- The breakdown of the grading system used in CBCS:
- A⁺: 100 (Outstanding)
- A: 90 (Excellent)
- B⁺: 80 (Very good)
- B: 70 (Good)
- C⁺: 60 (Above average)
- C: 50 (average)
- E: 40 (Pass)
- F: 0 (Fail)