SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR UG Department of Microbiology

Skill Based Certificate Course: Fruit Processing & Wine Technology
Session 2022-2023
Course Coordinator Papert

Course Coordinator Report

Department of Microbiology, S.S.E.S.A's Science College, Congress Nagar ,Nagpur has run the Skill based certificate course on "Fruit Processing & Wine Technology". A total of 20 students from the BSc First Year were admitted to the course having theory as well as practical classes. A guest lecture on this course was conducted under the chairmanship of Officiating Principal Prof. M.P. Dhore, Skill based course College-Coordinator- Prof. AtulBobdey and Skill Course Coordinator Dr. Pranita Gulhane. The lecture was on Fruit processing and Wine technology & related topics. This skill course helps to develop skills for the efficient production of jam, jelly and wine. It also helps to inculcate learning and earning spirit among students. More over, by processing raw agricultural products, the food processing sector is able to increase their value, resulting in higher returns for farmers and rural communities, thereby contributing to the Prime Minister's vision of doubling farmers'income. Wine making involves a wide range of microbiota that greatly influences the quality of wine and may cause negative attributes of some wines. Thus, the detection, Identification, and characterization of the wine microbiome,including genera, species, strains, and metabolites involved, is of crucial importance. This course helps to carry out large- scale production of jam, jelly and wine for commercial use. After successful completion of the course, the examination was conducted by offline mode with Multiple Choice Question- Objective mode. Certificates of qualifying the exam were distributed to the exam qualified students.

Action Taken: A skill development course in Fruit Processing and Wine Technology is designed to equip participants with the knowledge and practical skills needed to work effectively in the fruit processing and wine making industries.



Intercollegiate workshop on "Intellectual Learning Strategies & Skill Development" on the occasion of 125th Year Celebration of Dr. Panjabrao alias BhausahebDeshmukh, Centenary Year Celebration of R.T.M. Nagpur University & NationalScience Day was organized by Department of Microbiology, S.S.E.S.A's Science College, Nagpur on 4th March, 2023. The workshop was conducted under the chairmanship of Hon'ble Prof.Mahendra P. Dhore, Principal, Science College, Nagpur, Coordinator-Respected Prof. Atul D. Bobdey and Convener-Dr. Pranita B. Gulhane. Verbal Welcometo

Hon'ble Dignitaries, GuestSpeaker & Participants was doneby Dr.Priya Fuke ma'am. The Presidential address was by Hon'ble Principal Prof. Mahendra Dhore Sir.

The workshop was conducted by **Dr. S. D. Patankar, Ex- Principal, SS Jaiswal College, Arjuni Morgaon.** Total 20 students were enrolled for the course. Questionnaire sessions were also conducted after the lecture. A total of 165 students have participated for the same and expressed the creativity in it. Vote of thanks was given by Ms. Deepthi Hynal ma'am. All the staffs of the organizing committee contributed for the success of the programme. Theory and Practical exam were conducted in offline mode having 50 M.C.Q. questions for theory exam were given while marks practical exam was conducted. Internal assessment was done on the basis of regularity of students and visit to Mah atma Gandhi Institute for Rural Industrialization (MGIRI), Wardha on 04^{th} November 2022.



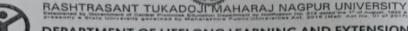
Hon'blePrincipalSirfelicitatingtheResourcepersoninSkillcourseworkshopdt.04/03/23



Session2022-2023







DEPARTMENT OF LIFELONG LEARNING AND EXTENSION Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860 E-mail : doll_rtmnu@gmail.com

No.DOLLE/ 305/22

To, The Principal

Dated: 12.08.2022

SSES Amt's Science College, Congress Nagar, Nagpur.

Sanction for Conducting Short Term Courses under Jeevan Shikshan Abhiyan on No Grant Basis. (2022-23)

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, this is to inform you that your proposal has been accepted and your College has been granted permission to conduct the course on the following conditions:

Details of the Course

Sr. No.	Name of the Course	Name of Course Coordinator	Duration	Credit	No.of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the Deptt.
1	Certificate Course in Environment and Water Management.	Prof. Yogita K. Meshram	43 hrs. (15Weeks)	2	20	1500/-	10%
2	Certificate Course in Ground Water Exploration.	Ms. P. B. Zamarkar	45 hrs. T- 36 hrs. P- 09 hrs.	2	40	1500/-	10%
3	Certificate Course in Mushroom Cultivation.	Dr. R. H. Mahakhode	40 hrs. T- 20 hrs. P- 20 hrs.	2	40	1500/-	10%
4	Certificate Course in Immunology and Immunodiagnostics.	Dr. Deepthi Hynal	44 hrs. T- 36 hrs. P- 08 hrs.	2	20	1500/-	10%
5	Certificate Course in Fruit Processing and Wine Technology.	Dr. Pranita B. Gulhane	45 hrs. T- 37 hrs. P- 08 hrs.	2	20	1500/-	10%

Rules & Regulations of this Department regarding these courses should be strictly

- Owing to Covid-19 situations all the norms of Central & State Government and instructions by R.T.M. Nagpur University, Nagpur should be strictly followed.

 This sanction is valid for this particular Batch only.

 Fees for the course should be charged as per the norms prescribed.

 Expenditure on the course should be incurred as per norms.
- 2. 3.

- Expenditure on the course should be incurred as per horms.

 Course should be started within a Month from the date of sanction.

 Please communicate your acceptance within a month and submit the Initial Report Submit the List of Students admitted in the excel format attached herewith.

Also send a soft copy in CD/Pen drive.

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR UG Department of Microbiology

NOTICE

Date: 30/08/2022

All the students are informed that **U.G. Department of Microbiology** runs **Skill Based Certificate Course: Fruit Processing & Wine Technology** for the session 2022-23. Interested students of B.Sc. are requested to provide their names to the course Coordinator Dr. Pranita Gulhane or before 05/9/2022.









U.G.DEPARTMENTOFMICROBIOLOGY,SCIENCE COLLEGE,CONGRESSNAGAR,NAGPUR

AccreditedwithCGPAof3.51at'A+'GradebyNAAC,Bangalore A College with Potential for Excellence An Institutional Member of APQN Recognized Center for Higher Learning & Research A Mentor College under Paramarsh Scheme of UGC, New Delhi A Mentor College under Paris Sparsh Scheme of Maharashtra State

Skill Based Certificate Course for the Session 2022-23

Fruit Processing & Wine Technology

Skill Based Certificate Course: Fruit Processing & WineTechnology

Course Co-Ordinator: Dr.Pranita Gulhane

Course Introduction

Fruit Processing & WineTechnology course offers an in-depth exploration of the techniques, technologies, and principle involved in fruit processing and wine production. Students will gain hands-on experience and theoretical knowledge essential for careers in these industries, focusing on the science and art behind creating high- quality fruit products and wines.

Course Objectives

- 1. To develop skill for the efficient production of Wine.
- 2. To inculcate learn and earn sprit among students about fruit processing.
- 3. To increase the survival rate of many communities for they solely depend on wine production.
- 4. To carry out large scale production of dietary supplements for direct consumption of processed fruits.
- 5. To develop awareness among people to increase the shelf life of perishable fruits.

Registration Date: 05/09/2022

Prof. Atul Bobdey
Coordinator
Dept.of Microbiology

Prof. Mahendra Dhore
Principal
Science College,Nagpur

Dr. Pranita Gulhane *Course-Coordinator Skill Based Course*

UG Department of Microbiology

Skill Based Certificate Course: Fruit Processing & Wine Technology (Session2022-2023)

CourseCo-Ordinator: Dr. Pranita Gulhane Course

Introduction

Fruit Processing & Wine Technology course offers an in-depth exploration of the techniques, technologies, and principle involved in fruit processing and wine production. Students will gain hands-on experience and theoretical knowledge essential for careers in these industries, focusing on the science and art behind creating high-quality fruit products and wines.

Course Objectives

- 1. To develop skill for the efficient production of Wine.
- 2. To inculcate learn and earn sprit among students about fruit processing.
- 3. To increase the survival rate of many communities for they solely depend on wine production.
- 4.To carry out large scale production of dietary supplements for direct consumption of processed fruits.
- 5. To develop awareness among people to increase the shelf life of perishable fruits.
 - Instructional Strategies: Theory class, Practical, Video clips, Models etc.
 - **Evaluation Strategies**: Oral discussions and Final MCQ examination

Course Outcomes:

By the end of this course, participants will be equipped with the comprehensive knowledge and practical skills needed to pursue careers in the fruit processing and wine making sectors. They will be prepared to contribute effectively to production, quality control, research and development, and management roles within these dynamic industries.

Duration of course: Fifteen Weeks

Module Skill Based Certificate Course

Fruit Processing & Wine Technology

(Session2022-23)

The skill base certificate course syllabus for B.Sc. I, II and III appear students. Fifteen weeks' certificate course in FRUIT PROCESSING & WINE TECHNOLOGY. The examination of course shall comprise of one theory paper of three hours carries 50 marks and practical of one- hour duration carries 50 marks. Internal assessment for the course based on one theory paper of 10 marks shall be conducted by university approved teachers. Internal assessment marks should be included in minimum passing marks of the students. Candidates are expected to pass separately in theory, internal assessment and practical examination.

Students require 40% marks in theory for passing including internal marks. Separate passing in practical examination is required, assignment submission is necessary to get internal marks. The structure of syllabus for certificate course along with distribution of marks is also displaye din the following table.

Course	Theory papers and Practical		Marks		Total marks
		Theory	Internal assessment	Practical	
Certificate course in Fruit Proc essing &	1.Theory paper – Fruit processing and Wine technology	50	10		100
Wine Technology	2.Practicals based on course			40	100
			Grand total		100

^{*}Internal assessment-Based on student's attendance and performance during unit test exam and assignment. Based on assignment plus activity conducted on practical, the Internal Assessment marks are given for theory and practical. Objective mode of examination was conducted.

Dr.Pranita Gulhane *Course Coordinator*

nelhan

Dr. Amitabh Halder

Prof. Mahendra Dhore

Principal

IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)

Principal S. S. E. S. Amravati's Science College, Nagpur.

S. S. E. S. A. Science College Science College, Nagpur. Congress Nagar, Nagpur.

SYLLABUS

HEORY DURATION - 02 Hrs per week

60 Hrs per Session

EXAMINATION HRS. - 03 Hrs

MAX. MARKS

80

APER I - Wine Technology, Wine Production and Wine Microbiology

CHAPTER	CONTENTS
10 hard	Introduction and establishment of vineyard garden Climatic requirement for grapes cultivation. Selection of soils, preparation of land vineyard layout.
2	Propagation and practices in vineyard garden. Propagation techniques-single root method and root stock method. Nutritional requirement of grape wine, Optimum of PGR in propagation
plante.	Plant protection Important diseases and pest of grapes. Integrated pest management.
-	Maturity indices preharvesting method and handling Maturity indices of Grape for wine industry. Suitable methods of harvesting, precooling, grading, packing and transportation of grapes.
5	Methods of increasing sugar content in grapes. Shelf-life of fruits Criteria determining shelf-life of grapes.

CHAPTER	CONTENTS
	UNIT II
1	Introduction to Wine Technology - Wine is a fermented product. - Wine history ("old" and "new" world wine).
	- Classification of Wine - Wine quality (vintage, Terroir) Wine and health (resveratrol, French paradox).
2	Transformation Grapes into Wine - Grape maturity. - Pre-fermentation actions (enzymes, skin contact). - Artificial inoculation (yeast selection). - Alcoholic fermentation. - Malolactic fermentation.
3	Wine production flow charts: - White wine Red wine.
town or with a way harbona	- Red Wille Rosé wine Rosé wine Strong wine from Southeen Spaine - Port and sherry wine Port and sherry wine. Willie fermentation technology - Use of Sulphur-di-Oxide. (pH influence).

CHAPTER CONTENTS

UNIT III

Vintage and processing of grapes - linear intage of of grap

CHAPTER	CONTENTS	MARKS	HOURS
1 5	UNIT IV - Chemical nature, origin and consequences of the	grende;	bravail -
2 5	F Organoleptic defects - The colloidal state and tartrate stability in wine		
3 }	- Clarification and Filtration process Fining and fining agents - Sne - Fining of wines - Cheshro	no	

300.

CHAPTER	CONTENTS	
	UNIT V	
1 {	Microbial spoilage - Diagnosis of spoilage - Identification of wine spoilage micro-	khon
2 -	United the second control of the second cont	displacation.

Practical:

1	Proximate composition of fruit juices: a) pH – by pH meter. b) Acidity – by titration. c) Moisture – Oven drying. d) Sugar – AOAC.
2	Preparation of soft drinks : a) Lemon water. b) Barley water
3	Draduction of raisins from grapes (2) > 19.00.5
4	The distance of organic manures from pomace of fluit fluidity
5	Procedure for preparation of jelly from any two fruits (apple, orange, pipeapple, mixed fruits, mango, papaya etc.)
6	Preparation of marmalade -> (5)
7	Preparation of lemon syrup (3) \8.00.1
8	Preservation of apple juice> (G)

Note

	A visit to the winery: Report submission	\dashv
1	A visit to the distribution (20) min / student	- 1
2	Seminar on wine microbiology (20) min / student	11111

Congress Haggar Nagar Na

UG Department of Microbiology

Certificate Course in Fruit Processing and Wine Technology Session2022-23

Teaching Plan(15weeks)

Weeks	Day	Content
		Theory
1	1.1(01)	Introduction and establishment of vineyard garden
	1.2(02)	Propagation and practices in vineyard garden
	1.3(03)	Propagation techniques-single root method and root
		Stock method
2	1.4(04)	Plant protection
	1.5(05)	Important diseases and pest of grapes
	1.6(06)	Integrated pest management
3	1.7(07)	Maturity in dices Pre-harvesting method and handling
	1.8(08)	Suitable methods of harvesting, precooling, grading,
		Packing and transportation of grapes
	1.9(09)	Shelf-life of fruits
4	1.10(10)	Introduction of Wine Technology
	1.11(11)	Classification of Wine
	1.12(12)	Transformation of grapes in towine
5	2.1(13)	Wine fermentation technology
	2.2(14)	Pre-fermentation actions
	2.3(15)	Fruit juices squashes and cordials
6	2.4(16)	Staining, filtration and clarification
	2.5(17)	White wine
	2.6(18)	Red wine
7	2.7(19)	Rose wine
	2.8(20)	Sparkling wine
	2.9(21)	Portand Sherry Wine
8	2.1(22)	Fruit juice: Preservation and carbonation
	2.11(23)	Layout plan of a pomegranate juice plant
	2.12(24)	Fruit beverages: preparation and preservation
9	3.1(25)	Staining, filtration and clarification
	3.2(26)	Fruit juice: Preservation and carbonation
	3.3(27)	Citrus fruit juices
10	3.4(28)	Scenario of citrus production in India

	1	T
	3.5(29)	Various products from citrus fruits.
		Self life monitoring of citrus juice
	3.6(30)	Carbonated beverages from citrus
11	3.7(31)	Citrus by-products: manufacture of citric acid, orange
		oil, marmalades, vinegar, pectin etc.
	3.8(32)	Evaluation of banana for various product
	3.9(33)	Composition of banana fruit and its nutritive value
12	3.10(34)	Extraction of protein from banana leaves
	3.11(35)	Cattle feed from banana fruits
	3.12(36)	Utilization of juice of banana plant for energy
		Production
13	3.13(37)	Production of fiber from pseudo-stem of banana
		Practical
	1(38)	Proximate composition of fruit juices:
		a) pH- by pH meter. b)Acidity-by
		titration
		c)Moisture-oven drying. d)Sugar-AOAC
	2(39)	Preparation of soft drinks: a) Lemon water b) Barley
		water
14	3(40)	Production of raisins from grapes.
	4(41)	Production of organic manures from pomace of fruit
		Industry
	5(42)	Procedure for preparation of jelly from any two fruits
		(apple, orange, pineapple, mixed fruits, mango, papaya
		etc.
15	6(43)	Preparation of marmalade
	7(44)	Preparation of lemon syrup
	8(45)	Preservation of apple juice
	i	



UG Department of Microbiology

Skill Based Diploma Course-

Fruit Processing & Wine Technology Time Table

w.e.f.05/09/2022

Day	Theory
Mon&Tue	(BiotechLab)Theory9.00PM10.00 PM
Wed&Thu	(BiotechLab)Theory9.00PM10.00 PM
Fri&Sat	(BiotechLab)Practical,10.00PM-12.00PM

SEAL STANDERS * INDES

S.S.E.S.A's Science College, Congress Nagar, Nagpur ATTENDENCE SHEET (2022-23)

Class: Fruit Processing & Wine Technology Skill Course Fruit Processing & Wine Technology

S Sr. 5 4 17 12 9 œ 7. 6 ω 15 14 13 11 10 Bhagyashree shahu Tanushree Panekar Ambaleena Dhoke Name of Student Radha Somkuwar Aparna Kurrewar Theory/ Practical: Ashlesha Jadhav Himanshi Atram Anshu Meshram Raj Rajkarosiya Kshitij Kamble Shravani Saraf Yukti Talmale Neha Lonare Astha Bhange Gauri Nasare Mohit Khade Dimple Udan Shreya Gujar Nikita Salve Raj Sonone P D 0 8 ~ 0 P O J D 0 o D D D 2 D 4 to D T 4 J 0 P 0 D 0 V 0 to D b O P 0 D 0 to 0 σ P O P O 0 0 0 0 O 0 0 D 0 o 0 0 P D 0 J P P 0 B 5 + P 0 0 9 0 D D 7 3 0 O 4 0 o 7 5 P 0 0 P 0 0 0 D 7 उ 0 J d 7 0 P D 8 5 0 3 0 0 0 3 0 P B P P D P 0 9 8 D D D P P 0 0 P D P P D 0 B D 0 0 V 0 P T D 0 0 D D 7 3 0 0 0 4 0 7 O to 0 0 0 D J 0 D 4 0 0 D P D D B 3 D O 0 O P 3 P D P P 0 0 P o P D 4 D 0 8 O 0 O D D D J P p p p D P 9 d D 0 PP J P 90 U D D P O 9 D D D D o 0 D D 0 Month: Sup Do Nov D P O A P O D 0 V D D 0 0 D 0 D d 0 P D P O T J D o D D D O P σ D d D O 7 U B T D 70 0 v D б J D D O D

7

D

D

D

D

D

D

D

D

t

D D

D

D 00 3

P

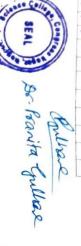


D

Do hanta Gullac

ATTENDENCE SHEET 12

		ATTENDENCE SHEET (2022-23) S.S.E.S.A`s Science College. Congress Nagar Nagaring
		Skill Course Fruit Processing & Wine Technology
	Theory/ Practical:	Class: Fruit Processing & Wine Technology Theory/ Practical: Month: 20p 10 No
Sr.	11	いたないとってんてん
N _O	Name of Student	9/00/01/01/01/01/01/01/01/01/01/01/01/01/
		101.16/17/18/23/19/11/11/11/11/11/11/11/11/11/11/11/11/
H	Shreya Gujar	0 1 1 2 2 3 3 1 1 1
2.	Dimple Udan	
'n	Mohit Khade	
4.	Ambaleena Dhoke	
5.	Raj Sonone	
Ö	Kaj Rajkarosiva	
7.	Shravani Saraf	
.00	Tanushree Panekar	
9	Anshu Meshram	
10.	Bhagyashree shahu	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
11	Nikita Salve	
12	Himanshi Atram	
13,	Astha Bhange	
14	Gauri Nasare	
15.	Ashlesha Jadhav	
16	Yukti Talmale	P P P P P P P P P P P P P P P P P P P
17.	Neha Lonare	1 1 2 2 3 4 4 4 4 4
18	Aparna Kurrewar	000000000000000000000000000000000000000
19	Radha Somkuwar	0 -
20	Kshitij Kamble	9 4 4 4 9



Educational Tour Report

Department of Microbiology

Fruit Processing & Wine Technology Skill Based Course

Visit of Skill based certificate course students was carried out at Mahatma Gandhi Institute for Rural Industrialization (MGIRI), Wardha on 04thNovember 2022. Internal assessment of those students was carried out on the basis of regularity of students and the educational tour visit at MGIRI, Wardha. Many Skills based miniprojects regarding manufacturing of herbal products ,use of cotton fibers yarning for clothes–making, bamboo craft as well as hand on training of sophisticated laboratory equipment's. Total 67students visited the same with great enthusiasm.



MGIRI, Wardha Visit by Skill course students dt04/11/22

SEAL BENLLAND Dr.PranitaGulhane

SkillBasedCourseCoordinator

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology

EXAMINATION NOTICE

Date: 24/12/2022

All the students enrolled for Skill Based Course: Fruit Processing &

Wine Technology for the session 2022-23 are informed that Theory and

Practical Exam of the course is scheduled on 28/12/2022. All the

appearing students are informed to remain present in Biotechnology

Laboratory at 10:30 AM-11:30 AM for Theory Exam and at 12:30 PM-5:30

PM for Practical Exam.

Skill Based Certificate Course- Fruit Processing & Wine Technology List of the Students (Session 2022-23)

Sr. No.	Name of Student	Signature
1)	Shreya Gujar	ange 19
2)	Dimple Udan	Dudais.
3)	Mohit Khade	Khade
4)	Ambaleena Dhoke	Anbaleerat
5)	Raj Sonone	Pronousane
6)	Raj Rajkarosiya	R. Rajkarosiya
7)	Shravani Saraf	O Descent
8)	Tanushree Panekar	T. Panelear.
9)	Anshu Meshram	A Manhoran
10)	Bhagyashree Shahu	Bshahu.
11)	Nikita Salve	M. Salves.
12)	Himanshi Atram	(arount
13)	Astha Bhange	Abres
14)	Gauri Nasare	(aug)
15)	Ashlesha Jadhav	V. Rolle
16)	Yukti Talmale	Yust ?
17)	Neha Lonare	Vonacy
18)	Aparna Kurrewar	Lever
19)	Radha Somkuwar	Dadre
20)	Kshitij Kamble	duti
21)	Reeta P. Bhawalkar	Reline
22)	Sahil P. Titarmare	Phambar
23)	SaksheeShahu	7. Faimare
24)	Saloni S. Dhole	Shelr.
25)	Snehal M. Patle	Guchaf.
26)	Sushant Nimbhorkar	(S. Nimbborkan.

SEAL STATE OF PROPERTY OF

Rashtrasant Tukadoji Maharaj Nagpur University

Exam	Exam Name: Skill based Certificate Course Examination, Summer-2022-23				
Name	e of Subject: Fruit Processing & Wine Te	echnology			
Mediu	um: English		Marks Obtained:		
Centr	re Name: Science College Congress Naga	r, Nagpur			
Name	e of Student:	Class:	Group:		
Durat	tion:1hr		MaxMarks:50		
2)	Each Question Carries 2 Marks. Each Question is Compulsory. No Negative Marking				
a)15 b)20 c)10 d)30	temperature for cultivation of grapes is 5–40oc 0–20oc 0–40oc 0–40oc a)15–40oc	5			
2. What is a)10-12 b)14-10 c)24-28 d)28-34 Ans: b)1	6% 3% 4%				
a) Sug b) Tita c) pH	naturity indices of tablegrapes are gar content ratable acidity of the above he above				
a) Ma b) Rap c) Lov	ichofthefollowingisnotacriteriontodete turityatharvest pidpre-cooling w-moisturecontent effectiveFumigation visturecontent	erminelifeofgrapes?			

5. Grapesaremostsusceptibleto ViralDiseases a) BacteriaDiseases b) **FungalDiseases** c) d) HelminthDiseases Ans:c)FungalDiseases 6. Timerequiredfoxgrapestoattainmaturityis:a)60-150days 40-90days b) 90-140days d)100-160days Ans:a)60-150days c) 7. Carbonationoffruitjuiceincludesadditionofwhichgas a) O_2 b) N c) Η d) CO_2 Ans:d)CO2 8. The country with highest citrus production is? a) China Brazil b) c) India Sri-Lanka d) Ans:b)Brazil 9. WhichstateisthelalargestproduceroflargestgrapesinIndia a) Karnataka b) Tamil Naduc)Maharashtrad)AndhraPradesh Ans:c)Maharashtra 10. Various products from citrus fruits include? a) Beverages b) Squash c) Jam Alloftheabove d)

Ans:d)Alloftheabove

11. a) b) c) d)	Bananasadanexcellentsourceofmineral Potassium Sodium Manganese Selenium
Ans:a)Po	tassium
12. b)12 %c) Ans: b)1 2	Theaverageragealcoholcontentofwineisabout-a)10% 14% d)16% 2%
13.	WhichofthefollowingisbetterknownasBreweriesorBaker'sYeast?
a)	Candidatropicculus
<i>b</i>)	Trichosporoncutaneum
c)	Saccharomycescerevisal
d)	Schizosaccharomycespombe ccharomycescerevisae
Alisicjou	centil omycescer evisue
14.	Roleofsulphurdioxideinwinemakingis-
a)	ReductionofpH
b)	Antioxidant
c)	Antiseptic
d)	Bothb andc
Ans: d)B	othbandc
15. -	Bottledfruitjuicesboughtfromthemarketareclearerascomparedtothosemadeathomed ueto enzyme
a)	Streptokinase
b)	Lipase
c)	Hydrolysases d)Pectinase Ans:d)Pectinase
16.	Whatistheprimarypurposeofpasteurizingfruitjuices?
a)	Toimproveflavor
b)	Toincreasesweetness
c)	Tokillharmfulbacteria
d)	Toaddnutrients

17. a) b) c) d) Ans:b)l	Whichprocessisused toextractfibersfromthepseudostem ofabananaplant? Retting Decorticating Ginning Spinning Decorticating
18.	Whichstatein Indiaistheleadingproducerofcitrusfruits?
a)	UttarPradesh
b)	Maharashtra
c)	Punjab
d)	Assam Maharashtra
Alis:DJI	Maharashtra
19.	Whatisthe primaryseasonfor citrusharvestinginIndia?
a)	Winter
b)	Spring
c)	Summer
d)	Monsoon
Ans:a)\	Winter
20.	Whatpartofthebananaplantisprimarilyusedforfibreproduction?
a)	Thefruitpeel
b)	Thepseudostem
c)	Theleaves
d)	The roots
	The pseudostem
21.	Whichofthe followingisNOT acitrusfruit?
a)	Mandarin
b)	Kumquat Pomelo
c) d)	Persimmon
-	Persimmon
Alis.uji	i el similion
22.	Whichisthelargestcitrusby-productindustryin India?
a)	Citrusfiber
b)	Citricacid
c)	Orangepeeloil
d)	Orangepomace Citricacid
Ans:n10	CHEICACIO

23.	Whichofthefollowingisnotaby-productofcitrusfruits?
a)	Citricacid
L)	0

b) Orangepomacec) Orangepeeloil

d) Citron

Ans:d)Citron

24. Whichofthefollowingsubstancesisfoundinhighquantitiesinbananafruit?

a) Caroteneb) Fructosec) Vitaminsd) Minerals

Ans:b)Fructose

25. Whatistheprocessofconcentratingcitrusfruitpulpcalled?

a) Fermentationb) Distillationc) Pressurizationd) Carbonation

Ans:b)Distillation



Shri Shivaji Education Society, Amravati's SCIENCE COLLEGE



Congress Nagar, Nagpur-12 (M.S.), India

Accredited with CGPA of 3.51 at 'A1' grade by NAAC, Bangalore
A "College with Potential for Excellence" identified by UGC New Delhi.
Institutional Member of APQN
Recognized Centre for Higher Learning and Research
Mentor College under 'PARAMARSH Scheme', UGC, New Delhi

U.G. DEPARTMENT OF MICROBIOLOGY

Skill-Based Course Course Exam Name: Fruit Processing & Wine Technology

Name of Student: Ambaliaand Dhoke. Roll No.: Session: 2022-23 Test Date: 28/12/2022 Max. Marks: 50			INSTRUCTIONS FOR FILLING THE SHEET 1 This sheet should not be folded or crushed 2 Use only blue/ black ball point pen to fill the circles 3 Use of pencil is strictly prohibited 4 Circles should be darkened completely and properly 5 Cutting and crasing on this sheet is not allowed 6 Do not use any stray marks on the sheet. 7 Do not use marker or white fluid to hide the mark 8 WRONG METHODS. CORRECT METHOD	
Invigilator Sig	Obtained nature	Marks: 38	8 O B S	
A B C D	A B C D	A B C D	A B C D	A B C D
20000	12 () • () ()	22 (• () (32 0000	_42 0000
3000	13 () () • ()	23 () () ()	33 ()()()	43 0000
40000	14 ()()()	24 (• () ()	34 () () ()	44 0000
50000	15 0000	25 (•) ()	35 0000	45 (2-0-0-0
6000	16 () • () ()	26 0000	36 0000	
7 0000	17 () • () ()	27 ()()()()	37 0000	47 (34) (3
*O•OO	18 0000	28 0000	38 0000	48 C 3 C O
90000	19 • • • • •	29 0000	39 0000	49 0 0 000
10 0000	20 () • () ()	30 0000	40 0000	50 0000

Congress to garding SEAL ST.

Rashtrasant Tukadoji Maharaj Nagpur University

Exam Name: Skill based Certificate Course Examination, Summer-2022-23 Name of Subject: Fruit Processing & Wine Technology Practical Exam **Marks Obtained:** Medium: English Centre Name: Science College Congress Nagar, Nagpur Name of Student: **Class: Group: Duration:** 3hr Max Marks: 40 Q.1To prepare jelly from any seasonal fruit. 10 Q.2 To prepare lemon syrup. 10 10 Q.3 Viva-Voce

Q.4 Practical Record

SEAL BULLAND

Total Marks

Dr.PranitaGulhane SkillBasedCourseCoordinator

10

40

Skill Based Certificate Course-Fruit Processing & Wine Technology (Session 2022-23)

Mark List

Sr.No.	Name of Student	Marks obtained out 50 (Theory)	Marks obtained out of 40 (Practical)	Marks obtained out of10 (Internal)	Total Marks 100
1)	Shreya Gujar	AB	AB	AB	AB
2)	Dimple Udan	AB	AB	AB	AB
3)	Mohit Khade	34	39	10	83
4)	Ambaleena Dhoke	38	38	10	86
5)	Raj Sonone	30	37	10	77
6)	Raj Rajkarosiya	34	37	10	81
7)	Shravani Saraf	34	37	10	81
8)	Tanushree Panekar	32	35	10	77
9)	Anshu Meshram	34	35	10	79
10)	Bhagyashree Shahu	30	34	10	74
11)	Nikita Salve	32	36	10	78
12)	Himanshi Atram	30	35	10	75
13)	Astha Bhange	34	37	10	81
14)	Gauri Nasare	30	35	10	75
15)	Ashlesha Jadhav	32	36	10	78
16)	Yukti Talmale	32	36	10	78
17)	Neha Lonare	28	32	10	70
18)	Aparna Kurrewar	40	40	10	90
19)	Radha Somkuwar	40	40	10	90
20)	Kshitij Kamble	28	32	10	70

SEAL BULLANCE Dr.PranitaGulhane

SkillBasedCourseCoordinator







Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

[I stablished by Government of Central Provinces Education Department by Notification No. 513 dated the 1° of August, 1921 & presently a State University governed by Maharashtra Public Universities Act, 2016(Mah. Act No. VI of 2017)]

University Skill Development Centre

(under Board of Lifelong Learning and Extension)



No. JSA EPWT-04

Shri/Smt./Ku. Ambaleena Dhoke is awarded with Certificate on successful completion of the course titled Certificate Course in Fruit Processing and Wine Technology in session 2022-2023 under Jeevan Shikshan Abhiyan conducted for 45 hours from 05/09/2022 to 25/12/2022 by the Board of Lifelong Learning & Extension in collaboration with Department of Microbiology, S.S.E.S. Amt's Science College Congress Nagar, Nagpur, 440412.

He/She has passed the Examination with A+Grade

Total Credits Earned: 01

Principal SSES Amr's Science College Congress Nagar, Nagpur-12

でいっているできると

Course Co-ordinator SSES Ami's Science College Congress Nagar, Nagpur-12

Coultane

Director

Board of Lifelong Learning
and Extension, RTMNU, Nagpur

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Department of Microbiology

Session 2022-2023

Skill Based Course: Fruit Processing &Wine Technology Date: 5/09/2022-25/12/2022

Feed back Form

Que. 1) How would you rate the overall quality of the Skill Based Course: Fruit Processing & Wine Technology?

- A. Excellent
- B. Good
- C. Average

Que.2)How well did the Skill Based Course: Fruit Processing & Wine Technology content meet your expectations?

- A. Exceeded expectations
- B. Met expectations
- C. Below expectations

Que.3)How effective were the course instructor in delivering the Skill Based Course: Fruit Processing & Wine Technology?

- A. Very Effective
- B. Effective
- C. Ineffective

Que.4)How likely are you to recommend the Skill Based Course: Fruit Processing & WineTechnology to others?

- A. Very Likely
- B. Likely
- C. Unlikely

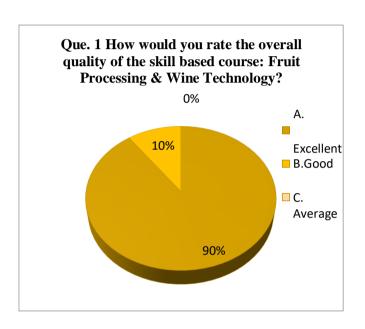
Que.5)How satisfied are you with the practical sessions of the Skill Based Course: FruitProcessing & Wine Technology?

- A. Very Satisfied
- B. Satisfied
- C. Dissatisfied

Feedback Responses:

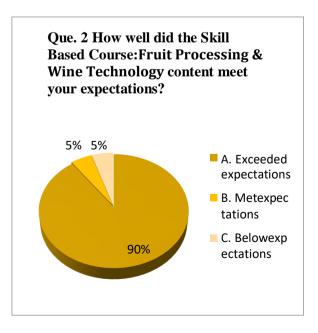
Que. 1) How would you rate the overall quality of the Skill Based Course: Fruit Processing & Wine Technology?

Rating	No. ofStude nts	Percentage
Excellent	18	90%
Good	2	10%
Average	0	0%
Total	20	100%



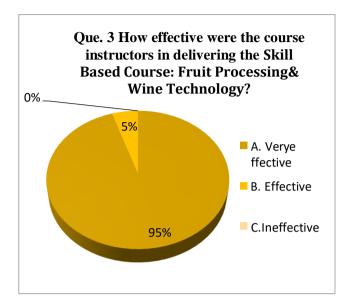
Que. 2) How well did the Skill Based Course: Fruit Processing & Wine Technology content meet your expectations?

Rating	No. of Student s	Percentage
Exceeded expectations	18	90%
Met expectations	1	5%
Below expectations	1	5%
Total	20	100%



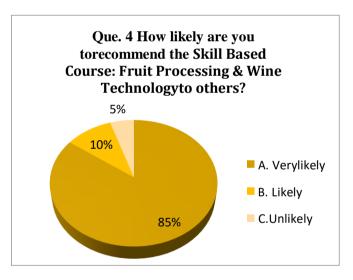
Que.3)How effective were the course instructor in delivering the Skill Based Course: Fruit Processing & WineTechnology?

Rating	No. of Students	Percentage
Very Likely	19	95%
Likely	1	5%
Unlikely	0	0%
Total	20	100%



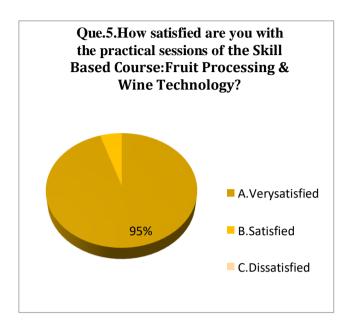
Que.4)How likely are you to recommend the Skill Based Course: Fruit Processing & WineTechnology to others?

Rating	No. Of Students	Percentage
VeryLikely	17	85%
Likely	2	10%
Unlikely	1	5%
Total	20	100%



Que.5)How satisfied are you with the practical sessions of the Skill Based Course: Fruit Processing &Wine Technology?

Rating	No. of stude nts	Percentage
Very Satisfi ed	19	95%
Satisfied	1	5%
Dissatisfied	0	0%
Total	20	100%



SEAL STANSON

Dr.PranitaGulhane SkillBasedCourseCoordinator Dr. Amitabh Halder

IQAC Coordinator
Internal Quality Assurance Cell
(IQAC)

S. S. E. S. A. Science College Science College, Nagpur. Congress Nagar, Nagpur.

Prof. Mahendra Dhore

Principal
Principal
S. S. E. S. Amravati's
cience College, Nagour

Meliore