

Shri Shivaji Education Society's **30ard for Higher Education Vidyanagar Karad.**





YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF CHEMISTRY

SHORT TERM COURSE

APPLIED DAIRY CHEMISTRY (CCD-07)

2021-22

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Total Students: 20 Class: B. Sc. III Duration: 3 Months

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Department of Chemistry Yashwantrao Chavan College of Science, Karad

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD Department of Chemistry Notice

Date: 08/11/2021

All the Students of the B. Sc. III are hereby informed that the Department of Chemistry is going to run a short-term course entitled as "Applied Dairy Chemistry" Interested Candidates enrol their names to Mr. S. D. Karande (course Co-ordinator) on or before 30th November 2021.

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CHEMISTRY COLUMN

Department of Chemistry Yashwantoo Chavan College of Science, Karad

Department of Chemistry

Certificate course in "Applied Dairy Chemistry"

Year 2021-22

1. Class : B.Sc. III

2. Duration of the course : 3 months

3. Capacity : 20

4. No. Students Enrolled : 20

5. Theory Examination : Last week of February

6. Practical Examination : First Week of March

Course Co-ordinator

Chavan College CHEMISTRY CO

Department of Chemistry Yashwantrao Chavan College of Science, Karad

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2021-22

Name of the Enrolled Students

Roll No.	Name of Student	Signature
3101	Abhang Omkar Sambhaji	bjadav.
3102	Adake Omkar Tanaji	P. N. Bhosale
3103	Asket Sujit Shankar	Dhinole
3104	Babar Rushikesh Rajendra	R.R.Babas
3105	Bagul Vijaya Bibichand	Biveele
3106	Bandal Pavan Uddhav	phyddhau
3107	Bandgar Dashrath Govind	BPG
3108	Barge Tejas Dattatraya	BID
3109	Bhalekar Swati Sunil	- Rusad 1
3110	Bhoj Jasaraj Vinayak	Bhog
3111	Bhore Jyoti Atmaram	JABhone.
3112	Bhosale Nitiraj Vasant	W-B-vasan-1
3113	Bhosale Prajwal Deepak	P.D. Bhasale
3114	Bhosale Pranali Rajendra	ARBhasale.
3115	Bobade Sahil Sunil	B-S. S.
3116	Bonore Satyajeet Gajanan	Bonase
3117	Chaudhari Viraj Ravindra	Phoudrari
3118	Chavan Abhimanyu Hanmant	Alcheron
3119	Chavan Aishwarya Prakash	Phowen
3120	Chavan Akash Anil	Achavan

CHEMISTRY

Departmen Yashwantene (

Science, Karad

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2021-22

Theory Time Table

Dec. 2021 to Jan. 2022

Lect. time	Friday	Saturday
9.40 - 10.30	SDK	SDK

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CHEMISTRY CONSTRUCTION OF THE Karad *

Department of Chemistry Yashwantrao Chavan College of Sciende, Karad

Yashwantrao Chavan College of Science, Karad

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2021-22

Question Paper

Marks: 3
Q.1) Multiple Choice Questions: (Marks: 1*10=10
i) Ash is distinctly
a) Acidic b) Amphoteric c) Neutral d) Basic
ii) Freshly drawn milk isto litmus.
a) Acidic b) Neutral c) Basic d) Amphoteric
iii)is highly sensitive to oxidative changes.
a) Lecithin b) Oxytocin c) Curcumin d) All of these
iv)acts as source of energy.
a) Milk fat b) Milk water
c) None of these d) All of these
v) Vitamins are essential for
a) Colour b) Fat c) Rich mechanism d) Growth & health
vi)may cause remarkable change in the colour of milk.
a) Vitamin b) Enzyme c) Bacteria d) Lipids
vii) Standards of Pasteurization includes
a) Bacterial destruction b) Homogenization
c) Cream line reduction d) all of these
vi) The process of making a stable emulsion of milk fat and milk serum by mechanical treatment is termed as
a) Pasteurization b) Homogenization
c) Pigmentation d) Emulsion

ix) The important factor to control micro-organism is..... a) Acidity b) Light c) Temperature d) Concentration x) Features of storage tanks are..... a) easy to clean b) easy to sanitize c) have proper agitating facility d) All of these Q.2) State True or False: (Marks: 5*1=5) a) In HTST process milk is heated to 72°C for 15 seconds. b) Level filling is quicker and more common. c) Natural or apparent acidity is caused by pigments. d) Brown bottle packaging is best. e) Flavour of milk is composed of smell and taste. Q.3) Explain in detail: (Marks:3*5=15) a) Compare glass bottle and paper packing of milk. b) Explain standardization of milk. c) Write a note on destruction of micro-organism in milk. d) Define market milk. State constituents of milk. Explain factors affecting composition of milk.

Yashwantrao Chavan College of Science, Karad

Department of Chemistry

Short Term Course

"Preparation of Household Chemicals"

Year 2021-22

Practical Exam

Marks: 40

Instructions:

- 1. You are advised to express the results in tabular form
- 2. Draw neat labelled/circular diagrams wherever necessary
- 3. Take the signature of the examiner on experimental results

SECTION- A [30 Marks]

- Q.1. Determination of percentage of calcium in the given sample of milk.
- Q.2. Determination of percentage of calcium in the given sample of milk powder.
- Q.3. Determination of titrable acidity in the given sample of Milk using supplied Sodium hydroxide.

SECTION - B

Oral

[10 Marks]

Yashwantrao Chavan College of Science, Karad

Department of Chemistry

Short term Course - Applied Dairy Chemistry (2021-22)

Mark list

Roll. No.	Name of Student	Mid-course exam (Out of 30)	Final Exam (Out of 30)	Practical Exam (Out of 40)	Total (Out of 100)
3101	Abhang Omkar Sambhaji	19	22	40	81
3102	Adake Omkar Tanaji	18	18	40	76
3103	Asket Sujit Shankar	19	19	40	78
3104	Babar Rushikesh Rajendra	20	25	40	85
3105	Bagul Vijaya Bibichand	22	24	40	86
3106	Bandal Pavan Uddhav	24	26	40	90
3107	Bandgar Dashrath Govind	25	27	40	92
3108	Barge Tejas Dattatraya	26	21	40	87
3109	Bhalekar Swati Sunil	24	22	. 40	86
3110	Bhoj Jasaraj Vinayak	19	22	40	81
3111	Bhore Jyoti Atmaram	18	18	40	76
3112	Bhosale Nitiraj Vasant	19	19	40	78
3113	Bhosale Prajwal Deepak	20	25	40	85
3114	Bhosale Pranali Rajendra	22	24	40	86
3115	Bobade Sahil Sunil	24	26	40	90
3116	Bonore Satyajeet Gajanan	25	27	40	92
3117	Chaudhari Viraj Ravindra	26	21	40	87
3118	Chavan Abhimanyu Hanmant	24	22	40	86
3119	Chavan Aishwarya Prakash	25	27	40	92
3120	Chavan Akash Anil	19	28	40	87

Chavan College Of School CHEMISTRY OF

Department of Chemistry Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science, Karad **Department of Chemistry**

Short term Course - Applied Dairy Chemistry (2021-22)

attainment

Average Attainment	Target Attainment level	Remark
2.8	Level 5	Target achieved

Course code	Course Title	% of students above 60 % of Final exam marks	Level of attainment Final exam	80% of attainment Level in Final exam (I)	% of students above 80 % of mid-course exam marks	Level of attainment	20% of attainment Level in mid-course exam (II)	Attainment of course(I+II)
Short term	Chemical risk management	90.00	3	2.4	76.00	2	0.4	2.8

	By using below attainment levels 1,2,3 for the Percent of students in B							
	For internal exam							
Level 1	Less than 60% of students scoring more than average marks							
Level 2	60% - 80% of students scoring more than average marks							
Level 3	more than equal to 80% of students scoring more than average marks							



	1
Programme outcome level	Target Attainment
Level 1	0.5-1.0
Level 2	1.0-1.5
Level 3	1.5-2.0
Level 4	2.0-2.5
Level 5	2.5-3.0

Head

Department of Chemistry

Yashwantrao Chavan College of
Science, Karad

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2021-22

Attendance Dec-2021

Roll. No.	Name of Student	3)1421	4/12/21	10/12/21	11/12/21	17/142	1 13/12/24	24/12/2	27/12/2	3/12/2
3101	Abhang Omkar Sambhaji	pyadad	Dyaday	byadan	Blagan	phagan	bruday			1
3102	Adake Omkar Tanaji	P N Bhosak	P. N. Bhosak	7 4		P. Al-Rhasala	P. at Obacal	- bycolca	prodor	Phagan
3103	Asket Sujit Shankar	Thinde	Minde	Mainale	Attinda	Thindo	Manage Park	ALT PHOTONE	P. W. Bygra	
3104	Babar Rushikesh Rajendra	R. R. Baba	R.R. Bola	R.R.B.				Marinole.		Minde
3105	Bagul Vijaya Bibichand		B. Vara	NOT THE PARTY OF T	A			A	A	R. K. Baka
3106	Bandal Pavan Uddhav		lav BP. con		Bred	13.Val	B.Vel	B. Vel	B. Val	B. Vail.
3107	Bandgar Dashrath Govind	B.P. Color	BDG	B.P. wh	B.Palh	B.Ruch	B. R. Col	B.P. wolh	B.P. Volh	
3108	Barge Tejas Dattatraya	BTD	BID	BID	BID	BDG	B.DG	BDG	BDG	BD6
3109	Bhalekar Swati Sunil	- Swatt	Swak		Swati	BID	BID	BID	BID	BID
3110	Bhoj Jasaraj Vinayak	Pohoi	Bhes	Pho	Jorda	Bhai	- Rusahi	Swati	- wat	-Swall
3111	Bhore Jyoti Atmaram		JA Bhore	J.A. Bhone		J.A. Bhone	Topo	jorgi (Bhot	Bhot.
3112	Bhosale Nitiraj Vasant	N.V.Bhasalo		A STATE OF THE PARTY OF THE PAR			J.A.Bhare	J. Hishore	JA Bhose	IA. Rhore
3113	Bhosale Prajwal Deepak	P.D. Bhosok	P.D. Bhosolo	P.D.Bhosle	P. D. Obamle	P D Donal	N. A. B. D. D. O. O.	MA A HOSOLG	and the second of the second of the second	
3114	Bhosale Pranali Rajendra	PRB.	PRB	BRB.	PAR		Company of the last of the las	The state of the s		
3115	Bobade Sahil Sunil	B.S.S	BSS	BSS	B.S.2	PRB.	PRB	PRP	PRB	PBB
3116	Bonore Satyajeet Gajanan	02	326	BSC		B.S.S		BS.S	B.S.S	BS.S.
3117	Chaudhari Viraj Ravindra	chaudhani	- Chaudhari		B&G.	BBG	88G.	BRG	108G	BSC=
3118	Chavan Abhimanyu Hanmant	Mar/ans	Enous	/ 1)		A		chaudharri	Shaudhri	chaudhan
3119	Chavan Aishwarya Prakash	Louar	Mouran		Ahowan	The second secon			Chairin	(granin)
3120	Chavan Akash Anil	Bhavan	· Comment of the comm		Chavan	Brown -	Aherron_	Ahaven_	Ahavan	Arewas
	- May	1	Muss	Minn.	Manual	thinkin,	Chavan.	Pharas	Alhaban	Thavan

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2021-22

Attendance Jan-2022

Roll. No.	Name of Student	711122	8/1/22	14/1/22	15/1/22	21/1/22	22/1/22	22/1/22	29/1/22	31/1/22
3101	Abhang Omkar Sambhaji	byadav	plaga	Asyaday	ptada	Diadail	Duaday	Minday	h v den i	and a
3102	Adake Omkar Tanaji	P.N.Bhosale	P-N. Bhosel	P. N. B hosal	P.N. Bhose	P. N. R hosal	P. N. Bhosal	O. N. Bhos	Seal Obecale	PN Bhosale
3103	Asket Sujit Shankar	Phinde	Athinale.	Athinde	Maindo	Bhimb	Alta bala	Malmoore	RELLA	AHL! O
3104	Babar Rushikesh Rajendra	R. Rbab	0	R. R. Sol		BARA	BNBU			THE RESERVE WAS DESCRIBED AND SHOULD BE SHOULD
3105	Bagul Vijaya Bibichand	B.V.el		Boyed	-1	1			R.R. Basa	196.5
3106	Bandal Pavan Uddhav		BP-Udh	B.P. Udh	A CONTRACT OF STREET	Boved				B.Vel.
3107	Bandgar Dashrath Govind	206	B100	B.D.G	BDG	B.P. Unh	13.P. U.X	B.P. Wh	0 1 000	
3108	Barge Tejas Dattatraya	BID	BID	BID	BID	BIO	BID	BD6	376	B.PG
3109	Bhalekar Swati Sunil	- Swatt	Lesses	Swart	Swah	- Swar	Suak	BTD	BID.	BID
3110	Bhoj Jasaraj Vinayak	-18hot		Phoj	Bhoi				Swall.	Swarf
3111	Bhore Jyoti Atmaram	J.A.Bhone	J.A. Bhone	1	J.A.Bhore	TAPPORE	J.A.Bhore	- Shop		Bhoi"
3112	Bhosale Nitiraj Vasant	Mr. Brosele		# 4. Bpoole	Name and Address of the Owner, where the Party of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i	Charles to the hope of the first		9 10 0	mustable	J.A.Bhore
3113	Bhosale Prajwal Deepak	The same of the sa	P. D. Bhosale	Color of the Color	P.O. Bhesel		-			Control of the Contro
3114	Bhosale Pranali Rajendra	PAR	PBB.	PRP	1988	PAB PAB				P.P. Bhosale
3115	Bobade Sahil Sunil	BS.F.	BSS	B.S.S	B. CS	B.S.S	PRR	BEBB	798	PAR
3116	Bonore Satyajeet Gajanan	Sonone	Bonone	Boriene	Bonome	Renane	B.S.S	B.S.S	BSS.	Ber
3117	Chaudhari Viraj Ravindra	chaudhori					Bonone	Borone	Ronors	Beneno
3118	Chavan Abhimanyu Hanmant	drastan-	(Chanen)	Evarin	Chasians	- Chaudhami	Chaudhani	Chaudhan		chaudhach
3119	Chavan Aishwarya Prakash	Howar	Shavan	Ahaver		Chavem.	(chavan)	Charles Charles	Chavern	Charam
3120	Chavan Akash Anil	A 1	And a second second	Acharas	Achavas.	Alayan		PROPERTY AND DATE OF THE PROPERTY OF		Araucis
		110000	NO	ZILA LIVE	ac was	Achavas	Achavas.	Achavas	Achaum.	Achares

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2021-22

Attendance Feb-2022

Roll. No.	Name of Student	4/2/22	5/2/22	11/2/22	12/2/22	17/2/22	18/2/22	25/2/22	21/2/22	28/2/22
3101	Abhang Omkar Sambhaji	prodav.	pyadav	pyadav	pycoday	Syadav	pyoday.	Bysdan	Phager	Syadan
3102	Adake Omkar Tanaji	PNBhosale	PN. Bhosale	P. N. Bhosal	P.N. Phosele	P. N. Bhosele	P.N.Bhosole	P.N. Bhosale	P.N. Bhosak	P. N. Bhosy &
3103	Asket Sujit Shankar	Thinde	Minale	Athinale	Mainde	Sta mole	MAInolo	Dinde	Attainale	Mainole
3104	Babar Rushikesh Rajendra	A.R. Balls	R.R.Boson	R.R. Balan	R.R.Bubbs	R.P. Babes	R.R. Babe	The part of the state of the state of the state of	TO A STATE OF THE	
3105	Bagul Vijaya Bibichand	B. Veel	Bivel	BiVal	B. VRJ	B-Ve)	B-Veel	B.Val	BEVEL	R.Ved.
3106	Bandal Pavan Uddhav	Brush	R.P. Volh	R.P. Odh	B.P. wolh	B.P. Inch	B. P.udh			B. Rudh
3107	Bandgar Dashrath Govind	BDG	BDG	3-06	BDY	BDG	306	304	BDG	BD.G
3108	Barge Tejas Dattatraya	BID	BID	BID	BID	BID	BID	BID	BID	BID
3109	Bhalekar Swati Sunil	Swort	Swah'	Swart	Lwan	Leath	- Swati	Loud	- Swall	Swadi
3110	Bhoj Jasaraj Vinayak	She	Bhot	Broi 1	ang-	Bhot	Brof	Bhoj	Phot	Bhox
3111	Bhore Jyoti Atmaram	Th Bhone	J.A. Bhone	J.A. Bhore	J.A. Bhose		J.A. Bhore	J. A. Bhox	J. A. Bhose	J.A. Bhox
3112	Bhosale Nitiraj Vasant	N-V-Bhosale	14.4 shorale	N:W.Bhosale	N.W.Bhosale	- N.V.B.Dosele	H.V.Bhook	Mr. Bhosale	H.V.B.Dasale	MABDOZO6
3113	Bhosale Prajwal Deepak	P.D. Bhosele	P.D. Bhosele	P.O. Bhosele	P.D. Bhosalc	P.D. Bhosale	P.D. Bhoselo	P.O. Bhosak	P.D. Bhosak	P.D. Bhosele
3114	Bhosale Pranali Rajendra	PRAhoselo	RBBhaca	le PRB	PRB.	PRB_	PRB	PBB.	PRR	RAB
3115	Bobade Sahil Sunil	B.S.S	B.S.S	BSS.	B.S.S		B.S.S	BS.S	B.SS.	B.S.S.
3116	Bonore Satyajeet Gajanan	Bonons	Benons	Ronns	Renore	Renna	Derans,	geners-	Benone	Beronz:
3117	Chaudhari Viraj Ravindra	Pech good box	- Rocerda's	Achaude	Schauder	-chaudham'			-	0
3118	Chavan Abhimanyu Hanmant	Charam-	Charlem	Charan-	Chavan	Chavam		Charlass		Elarian.
3119	Chavan Aishwarya Prakash	Apchana	Approver	A.p. chavon	A.p. chave	A. Pcharen	A.P chaven	A-Pohavas	A.P.Chavas	A. P. Chous
3120	Chavan Akash Anil	Achaw as	Achavan	Achayon -	Achavon	Achavas	Achavas	Achavas	A Chaves	Achava

Course

II Be one with the downtrodden and the underprivileged II

Shri Shivaji Education Society, Vidyanagar, Karad Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad

Vidyanagar, Karad - 415 124. Reaccredited B⁺⁺ Level by NAAC, Bangalore.
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IQAC Co-ordinator





Short Term Course CERTIFICATE OF COMPLETION

This is to certify that	Mr./Miss. Abhang omkar	Sambhaji	
of Class 8.81. III	has Completed Short Term	Course (3 Months) in	
Applied Dairy	chemistry	conducted l	by the department of
	_during the academic year 2021 - 20	22	
Oran Q	mound	Sile-	Jamel

Head of the Department

II Be one with the downtrodden and the underprivileged II

Shri Shivaji Education Society, Vidyanagar, Karad Board for Higher Education's, Vidyanagar Karad's

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Short Term Course CERTIFICATE OF COMPLETION

This is to certify that M	r./Miss. Bhalekar swati s	lunil	
of Class B.S(.II	has Completed Short Term	Course (3 Months) in	
Applied Dairy chem	istry	conducted by	y the department of
<u>Chemistry</u> di	uring the academic year 2024 - 20	022	
			9/
Terano	3mm	phi	Jumb
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal

II Be one with the downtrodden and the underprivileged II

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Short Term Course CERTIFICATE OF COMPLETION

	All the second		
This is to certify that Mr.	/Miss: Chavan Abhiman	yu Hanmant	
of Class 6.8(. III	has Completed Short Term	Course (3 Months) in	
Applied Dairy	Chemistry	conducted by	y the department of
chemistry du	ring the academic year 2024 - 20	022	
			a/
Mena	twowy	onle	Showh
Course Co-ordnator-	Head of the Department	IQAC Co-ordinator	Principal

II Be one with the downtrodden and the underprivileged II

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Short Term Course CERTIFICATE OF COMPLETION

This is to certify that	Mr. Miss. Chavan Akach A	mil	
of Class B.S(. II	has Completed Short Term	Course (3 Months) in	
Applied	Dairy chemistry	conducted by	y the department of
<u>Chemistry</u>	_during the academic year 2021 - 2	2022	
C) Cores of	monn	prie	And
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal

II Be one with the downtrodden and the underprivileged II

Shri Shivaji Education Society, Vidyanagar, Karad Board for Higher Education's, Vidyanagar Karad's

Yashwantrao Chavan College of Science, Karad

Vidyanagar, Karad - 415 124.

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Short Term Course CERTIFICATE OF COMPLETION

This is to certify that Mr./Miss. Bonore Satyailet Gaj	anan
of Class 8.80. The has Completed Short Term Cours	se (3 Months) in
Applied Dairy chemistry	conducted by the department of
chemistry during the academic year 2021 - 2022	
	pue Jamel
Olgano / January	Marie Comme

Head of the Department