

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





YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF CHEMISTRY

SHORT TERM COURSE

APPLIED DAIRY CHEMISTRY (CCE-10)

2022-23

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

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Department of Chemistry

Notice

Date: 08/11/2022

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 2022.

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OBJUE CHEMISTRY CHEMISTRY & Karad *

Department of Chemistry

Certificate course in "Applied Dairy Chemistry"

Year 2022-23

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 of School And Alarad A 2010

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2022-23

Name of the Enrolled Students

Roll No.	Name of Student	Signature
3001	Adake Rohit Suresh	Sadhav
3002	Adsul Shrikant Ramesh	ASRamesh_
3003	Alekar Harish Dilip	Herrid
3004	Babar Ajit Vijay	Migane
3005	Babar Raj Sanjay	Reggin
3006	Bahulekar Pramil Shankar	P.S.B.
3007	Bhandare Vishwajeet Jagdish	V.ST. Bhandore
3008	Bhosale Rajat Sanjay	R.S.B
3009	Bhosale Rohit Ravindra	R.R.B.
3010	Bhosale Sushant Shubhash	
3011	Chavan Abhijeet Rajesh	ALC
3012	Chavan Abhishek Shankar	+
3013	Chavan Amisha Mahadev	Amerine
3014	Chavan Darshana Rajaram	(Dhur)
3015	Chavan Ganesh Shankar	ranan
3016	Chavan Sayali Manik	Sayall
3017	Chavan Swapnil Nagesh	Smc Sn.C-
3018	Chavan Varsharani Rajendra	Vichwan.
3019	Chorage Maya Sambhaji	18horen.
3020	Desai Akansha Sanjay	Desci.

Chavan College of Chemistry of

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2022-23

Theory Time Table

Dec. 2022 to Jan. 2023

Lect. time	Friday	Saturday
9.40 - 10.30	SDK	SDK

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Yashwantrao Chavan College of Science, Karad

Department of Chemistry

Short Term Course

"Applied Dairy Chemistry"

Year 2022-23

Question Paper

Marks: 30 Q.1) Multiple Choice Questions: (Marks: 1*10=10) i)may cause remarkable change in the colour of milk. a) Vitamin b) Enzyme c) Bacteria d) Lipids ii) 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 iii) Freshly drawn milk is.....to litmus. a) Acidic b) Neutral c) Basic d) Amphoteric iv) Features of storage tanks are..... a) easy to clean b) easy to sanitize c) have proper agitating facility d) All of these v)acts as source of energy. a) Milk fat b) Milk water c) None of these d) All of these vi) Vitamins are essential for..... a) Colour b) Fat c) Rich mechanism d) Growth & health vii) Standards of Pasteurization includes..... a) Bacterial destruction b) Homogenization c) Cream line reduction d) all of these viii) The important factor to control micro-organism is.....

a) Acidity	b) Light	c) Temperature	d) Concentration	
ix) Ash is distinctly.				
a) Acidic	b) Amphote	ric c) Neutral	d) Basic	
x)is]	highly sensitiv	e to oxidative changes		
a) Lecithin	b) Oxytocin	c) Curcumin d) Al	l of these	
Q.2) State True or I	False:		(Ma	rks: 5*1=5)
a) In HTST process n	milk is heated	to 72°C for 15 seconds		
b) Enzymes are produ	uced by micro	-organisms.		
c) Brown bottle packa	aging is best.			
d) Natural or apparen	t acidity is cau	used by pigments.		
e) Milk fat is lighter t	han skim milk	portion and it rises to	the top of the milk.	
Q.3) Explain in detail	il:		(Mark	s:3*5=15)
a) Milk is almost an ic	deal food. Just	ify the statement.		
b) Compare glass bott	tle and paper p	acking of milk.		
c) Write a note on des	truction of mi	cro-organism in milk.		
d) Comment on acidit	y and pH of m	ilk.		

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Department of Chemistry

Short Term Course

"Preparation of Household Chemicals"

Year 2022-23

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 (2022-23)

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)
3001	Adake Rohit Suresh	21	27	40	88
3002	Adsul Shrikant Ramesh	22	28	40	90
3003	Alekar Harish Dilip	18	26	40	84
3004	Babar Ajit Vijay	18	24	40	82
3005	Babar Raj Sanjay	17	25	40	82
3006	Bahulekar Pramil Shankar	20	26	40	86
3007	Bhandare Vishwajeet Jagdish	19	20	40	79
3008	Bhosale Rajat Sanjay	20	25	40	85
3009	Bhosale Rohit Ravindra	21	27	40	88
3010	Bhosale Sushant Shubhash	23	25	40	88
3011	Chavan Abhijeet Rajesh	21	26	40	87
3012	Chavan Abhishek Shankar	21 ·	20	40	81
3013	Chavan Amisha Mahadev	22	25	40	87
3014	Chavan Darshana Rajaram	18	27	40	85
3015	Chavan Ganesh Shankar	18	19	40	77
3016	Chavan Sayali Manik	17	20	40	77
3017	Chavan Swapnil Nagesh	20	24	40	84
3018	Chavan Varsharani Rajendra	19	20	40	79
3019	Chorage Maya Sambhaji	20	27	40	87
3020	Desai Akansha Sanjay	25	28	40	93

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Short term Course - Applied Dairy Chemistry (2022-23)

CO attainment

Average Attainment	Target Attainment level	Remark		
L-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	87.00	3	2.4	74.00	2	0.4	2.8

	ng below attainment levels 1,2,3 for the Percent of ats in B
V	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



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

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Department of Chemistry

Yashwantrao Chavan College of

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Dec-2022

Roll.	Nama of St. 1	26.	1.							, D
No.	Name of Student	4114 22	-3/12/22	9/12/22	10/12/22	16/12/22	17/12/22	23/12/2	24/12/12	26/12/2
3001	Adake Rohit Suresh	Gadher	Spedhar	Badhal	Sydhav	" Sandbul	Spelhor	0, 11		
3002	Adsul Shrikant Ramesh	A&Remes		The state of the s		DOCUMENT OF THE PROPERTY OF TH	A ab		Sodhal	Sednal
3003	Alekar Harish Dilip	trans	- Hamil	Harry	Harris	ASRAMON			As Rames	A & Romes
3004	Babar Ajit Vijay	VijayB	Vilays.	VijayB	VilayB	VianB			-tansh	. Harich
3005	Babar Raj Sanjay	Reserv	pesser	Rysser	asser	Rysm	Vijay B	VijayB.	VijayB_	VijayB
3006	Bahulekar Pramil Shankar	Ds.B.	P.S.B.	8.P.S.B.				Resur	Ryberr	asper
3007	Bhandare Vishwajeet Jagdish	The second secon		V.57.6	PSB.	P.S.B.	P.SB.	P.S.B.	PSB.	PSB.
3008	Bhosale Rajat Sanjay	R.S.B	R.S. B	R.S.B	The state of the s			Committee the Assessment of the Committee of the Committe	204.00	V. 51. Bm
3009	Bhosale Rohit Ravindra	R.R.B.	R.R.B	R.R.B	R.S.B	R.S.B	R.S.B	R.S.B	R.S.B	R.S.B
3010	Bhosale Sushant Shubhash		1.4.3	K, K, B	R.R.B.	R.R.B	R.R.B	R.R.B	R.R.B	R.R.B.
3011	Chavan Abhijeet Rajesh	All	All	AKC	Ale	Nd2	-nul	All		
3012	Chavan Abhishek Shankar		700	#10		Ade	AM	Alle	Att.	AVE
3013	Chavan Amisha Mahadev	America	men	Ammen	morn	Maril	0			
3014	Chavan Darshana Rajaram	Rhes	C 31	Drow	61	menus	mon	moun	1	
3015	Chavan Ganesh Shankar	Cohor	Cachaver	Cohora	Genous	Ohen	(Khus)	(Phan	(may	Oher
3016	Chavan Sayali Manik	Sayall	Sayall	Sayoll		Cohous (Oh von	White the state of	ichan-
3017	Chavan Swapnil Nagesh	S.N.C	5.N.C	S.N.C	A STAN SEASON FOR THE SEASON SEASON	Sayal				Sayali
3018	Chavan Varsharani Rajendra	vehavan		and the same of th	S.NC Vehonan	S.N. 2	SN.C	SNIC	SIVIC	5.NC
019	Chorage Maya Sambhaji				VChaz 1	Scharan	Vichery	Vehoven		Victorian
020	Desai Akansha Sanjay	Acial .	The state of the	Muorgo	A contract		one rong	Morajo	Mhorgan	Chorres
		1 Louis	10 25/MI	- Seci !	Dagni.	() sair	Dejar	Desai.	Demis	Desar

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Jan-2023

Roll.		11.								10
No.	Name of Student	6/1123	7/1/23	13/1/2	3 14/1/2	3 20/1/23	21/1/23	27/1/2	28/1/23	31/1/27
3001	Adake Rohit Suresh	Sodher	Stadlar	Stellar	Stockhar	Spacker	Spoka		Speother	
3002	Adsul Shrikant Ramesh		0	X	Planting	Sicolian	Spoller	2 goo na	2 Joons	Sadha
3003	Alekar Harish Dilip	Hant	- Harrist	- tramol	-tankh	- Hanich	- Hanish	11- A		
3004	Babar Ajit Vijay	VijayB	VijayB_	VijayB	Vilians.	Vicus		Hand	- Handl	Harib
3005	Babar Raj Sanjay	Rypen	pysen	peper	assir	nys.	VijayB	VijayB	VijayB	VijayB.
3006	Bahulekar Pramil Shankar	P.S.B	P.S.B.	PSB.	PSB.		Risson	Posser .	Resser	Rysin
3007	Bhandare Vishwajeet Jagdish	V.ST. Bhu				PSB.	P.S.B.	P.S.B.	PS.B.	PS.B.
3008	Bhosale Rajat Sanjay	R.S.B	R.S.B	R.S.B	Q.S.B	1 · 1		-		
3009	Bhosale Rohit Ravindra	R.R.B	P.R.B	R.R.R	The same and the same of the s	R.S.B	R.S.B	R.S.B	R.S.B	R.S.B
3010	Bhosale Sushant Shubhash		Y.K.13	210	R.R.B	R.R.B	R.R.B	R. R.B	R.R.B	RIBB
3011	Chavan Abhijeet Rajesh	Ale	HOL	ABC	MAL	Here	nat	MUA -	110//	3 11
3012	Chavan Abhishek Shankar		-01-	010	70	Acco	file.	ALC	free	Auc
3013	Chavan Amisha Mahadev	promu	morre	gmenn	meno	mm	morne	0 1.5		
3014	Chavan Darshana Rajaram	Ohes	Proes	Dh.	Phot	6		ametre	mera	men
3015	Chavan Ganesh Shankar	achara	hohous	Gichar	The State of March 1995			Char	Chas	Che
3016	Chavan Sayali Manik	-Sayale	Sayale	Sayour	0	Gehow	0	Thou	Gchan	Chara
3017	Chavan Swapnil Nagesh		S.N.C	S.N.C	Sayale	Lagrale	Sayou	-Sayav_	Sayou -	Jayae
3018	Chavan Varsharani Rajendra					5.N.C	5. N.C	S.N.C	5.N.C	5.8V.C
3019	Chorage Maya Sambhaji	20/0		Mhore	Will a com	Vchevan	1	vehiras	Chuga	Vichuas
	Desai Akansha Sanjay	Desai	The state of	Day	Moscog	Mosay	Morage	4 (//	Morago	M horay)
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Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Feb-2023

Roll. No.	Name of Student	3/4/23	4/2/23	10/2/23	11/2/23	1712/23	12/2/23	24/2/23	27/1123	24/2/23
3001	Adake Rohit Suresh	Stadhor	Spolar	Stadher	Spacker	0			Sadhor	1
3002	Adsul Shrikant Ramesh	Aghermest	Aspenesh	~ _		I The state of the	,			
3003	Alekar Harish Dilip	- Harrich	Hanis	transp	Home	AsRmesh - Harris	Handly	- Harrish	- Havish	
3004	Babar Ajit Vijay	Vijaus_	M'ay B	Virayis	WiayB	Vijay B	VisayB	Virana	Viray B	VisauB
3005	Babar Raj Sanjay	Ressur	Repor	Reper	Reyson	Ryser	pyson	Rypri	Refor	peper.
3006	Bahulekar Pramil Shankar	P.S.B.	P.S.B.	P.S.B.	P.S.B.	P.SB.	PS.B.	Ps.B.		The state of the s
3007	Bhandare Vishwajeet Jagdish	157.BM						A STATE OF THE STA	PSB.	PSR.
3008	Bhosale Rajat Sanjay	R.S.B	R.S.B	R.S.B	R.S.B	R.S. B	n -		V.51.B	
3009	Bhosale Rohit Ravindra	R.R.B	2.2.2	R.R.B	RIRB	R.Q.B		D. S. 13	D.S.B	R.S.B
3010	Bhosale Sushant Shubhash		17.17.0	111111	K W	1× 10× 102	P.R.B	RRB	R.R.B	R.RB.
3011	Chavan Abhijeet Rajesh	AVE	Alle	Att	Het	Hell	NA	Muse	Att	Meld
3012	Chavan Abhishek Shankar					gru -	40	A Comment of the Comm	fire	()
3013	Chavan Amisha Mahadev	mores	Amehou	merus	amen	amon	ameline	Brown	pmener	Mark -
3014	Chavan Darshana Rajaram	Oheo	Obo	(Dhoer	Open	Ohis	Dhu	Phan	Dhs.	Draw Draw
3015	Chavan Ganesh Shankar	Cichar	achur	achor	Cychanes	Cicha	achour	^		
3016	Chavan Sayali Manik	Sayarle	Bayall		Sayau	Stepar	Legal	Colour		Cohara
3017	Chavan Swapnil Nagesh	Vehman			THE RESERVE OF STREET	CONTROL OF CHECK PROPERTY OF THE OWNER OWNE	The state of the s	Layou	Jayal .	Sayste
3018	Chavan Varsharani Rajendra		V. Charry			Vehavan!	V Chan	1) chi	2 - 4	
3019	Chorage Maya Sambhaji	Mhoran	Mhorza	Nuran	Chacan	Danos any	V. Chawa	V. Cherw	6.	V. Chewa
3020	Desai Akansha Sanjay	Deser	Devil	Delay.	Dec de	Deposition and	~ 1/1		/10	110
		(Oser?	(-)	- Jan-	- COCCIII	(>CXX	Defail	(Saus	Dept	Desail.

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Yashwantrao Chavan College of Science, Karad

 Vidyanagar, Karad - 415 124. Reaccredited B⁺⁺ Level by NAAC, Bangalore.
 An ISO 9001: 2015 Certified College





This is to certify that	Mr./Miss. Babar Raj S	anjay	
of Class B.Sc. III	has Completed Short	t Term Course (3 Months) in	
Applied I	airy Chemistry	conduc	cted by the department of
Chemistry dur	ing the academic year 2022 - 20	023	
	1		A I
Chanos	from	ple	Quend
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal

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This is to certify that Mr./\(\mathbb{A}\)	Adew chril	cant Rame	sh
of Class B. Sc. III	— has Completed Shor	t Term Course	(3 Months) in
Applied Dairy	Chemistry		conducted by the department of
Chemistry during the	e academic year 2022-2	023	
00 9			
Course Co-ordnator	ead of the Department	IOAC CC	o-ordinator Principal

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This is to certify the	nat Mr./Miss. Bhandare vishw	lajeet jagdish	
of Class B. Sc.	has Completed Short Ter	rm Course (3 Months) in	
Applied	Dairy Chemistry	conduc	ted by the department of
Chemistry	during the academic year 2012-2023		
200	R		9/1
O/Cons	Head of the Department	IQAC Co-ordinator	Principal

Estd.:

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This is to certify that Mr. /Mi	ss. Chorage Maya	Sambhaji	
of Class B.ScIII	has Completed Short T	Ferm Course (3 Mont	hs) in
Applied Dairy	Chemistry	(conducted by the department of
Chemisky during the	academic year 2022 - 201	B	
Olan Se	Smound	plu	Land
Course Co-ordnator He	ad of the Department	IQAC Co-ordinat	or Principal

Estd.:

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This is to certify that M	r./ Miss. Chavan Ganesh	ShanKar	
of Class B. ScTIT	has Completed Short Te	erm Course (3 Months) i	n
	airy Chemistry	cond	ucted by the department of
Chemistry during	g the academic year 2022 - 202	3	
000	Lione	AND	a mil
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal