

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

Index


Total Students: 20

Class: B. Sc. III

Duration: 3 Months

Sr. No.	Documents
1	Notice
2	Student Enrolment
3	Timetable
4	QP Theory and Practical
5	Mark List
6	CO Attainment
7	Attendance
8	Certificate




Head
Department of Chemistry
Yashwantrao Chavan College of
Science, Karad

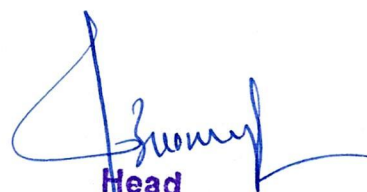
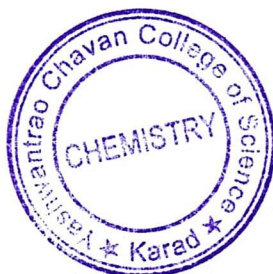
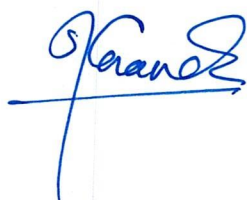
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Department of Chemistry

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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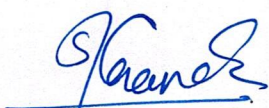
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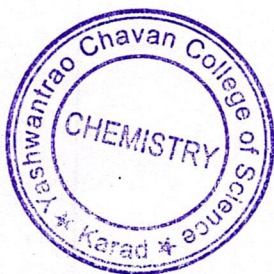
Department of Chemistry

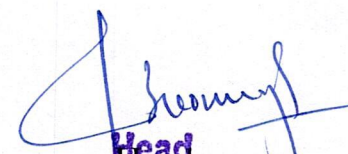
Certificate course in "Applied Dairy Chemistry"

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




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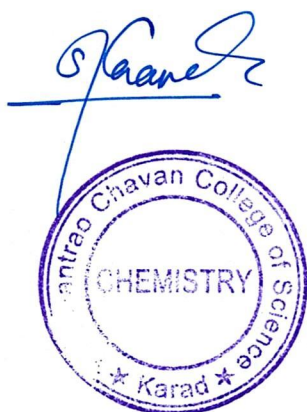
Short Term Course

“Applied Dairy Chemistry”

Year 2022-23

Name of the Enrolled Students

Roll No.	Name of Student	Signature
3001	Adake Rohit Suresh	<i>Adake Rohit</i>
3002	Adsul Shrikant Ramesh	<i>AS Ramesh</i>
3003	Alekar Harish Dilip	<i>Harish Alekar</i>
3004	Babar Ajit Vijay	<i>Ajit Babar</i>
3005	Babar Raj Sanjay	<i>Raj Babar</i>
3006	Bahulekar Pramil Shankar	<i>P.S.B.</i>
3007	Bhandare Vishwajeet Jagdish	<i>V.J. Bhandare</i>
3008	Bhosale Rajat Sanjay	<i>R.S.B.</i>
3009	Bhosale Rohit Ravindra	<i>R.R.B.</i>
3010	Bhosale Sushant Shubhash	
3011	Chavan Abhijeet Rajesh	<i>Abhijeet Chavan</i>
3012	Chavan Abhishek Shankar	
3013	Chavan Amisha Mahadev	<i>Amisha Chavan</i>
3014	Chavan Darshana Rajaram	<i>Darshana Chavan</i>
3015	Chavan Ganesh Shankar	<i>Ganesh Chavan</i>
3016	Chavan Sayali Manik	<i>Sayali Chavan</i>
3017	Chavan Swapnil Nagesh	<i>Swapnil Chavan</i>
3018	Chavan Varsharani Rajendra	<i>V. Chavan</i>
3019	Chorage Maya Sambhaji	<i>Maya Chorage</i>
3020	Desai Akansha Sanjay	<i>Akansha Desai</i>



[Signature]
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Department of Chemistry

Short Term Course

“Applied Dairy Chemistry”

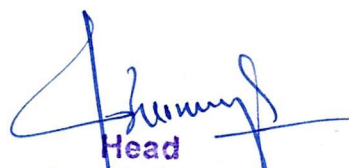
Year 2022-23

Theory Time Table

Dec. 2022 to Jan. 2023

Lect. time	Friday	Saturday
9.40 – 10.30	SDK	SDK




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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) Amphoteric c) Neutral d) Basic

x)is highly sensitive to oxidative changes.

- a) Lecithin b) Oxytocin c) Curcumin 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) Enzymes are produced by micro-organisms.
- c) Brown bottle packaging is best.
- d) Natural or apparent acidity is caused by pigments.
- e) Milk fat is lighter than skim milk portion and it rises to the top of the milk.

Q.3) Explain in detail:

(Marks:3*5=15)

- a) Milk is almost an ideal food. Justify the statement.
- b) Compare glass bottle and paper packing of milk.
- c) Write a note on destruction of micro-organism in milk.
- d) Comment on acidity and pH of milk.

Yashwantrao Chavan College of Science, Karad

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]

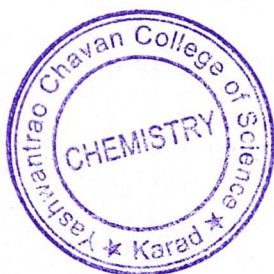
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Department of Chemistry

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



Head
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Yashwantrao Chavan College of Science, Karad
Department of Chemistry
Short term Course - Applied Dairy Chemistry (2022-23)

CO attainment

Average Attainment	Target Attainment level	Remark
2.8	Level 5	Target achieved

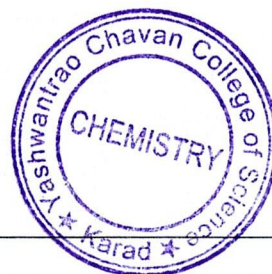
Course code	Course Title	% of students above 60 % of Final exam marks	Level of attainment Final exam	80% of attainment Level in Final exam (I)	% of students above 80 % of mid-course exam marks	Level of attainment	20% of attainment Level in mid-course exam (II)	Attainment of course(I+II)
Short term	Chemical risk management	87.00	3	2.4	74.00	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

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

[Signature]



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Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Dec-2022

[illegible]

YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Jan-2023

[illegible]

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Department of Chemistry

Short Term Course - "Applied Dairy Chemistry"

Year 2022-23

Attendance Feb-2023

[illegible]

Estd.:

1958

|| Be one with the downtrodden and the underprivileged ||

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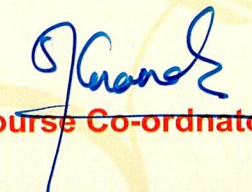


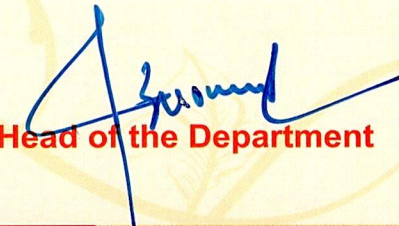
- Vidyanagar, Karad - 415 124. •
- Reaccredited B++ Level by NAAC, Bangalore. • An ISO 9001 : 2015 Certified College




Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Babar Raj Sanjay
of Class B.Sc. III has Completed Short Term Course (3 Months) in
Applied Dairy Chemistry conducted by the department of
Chemistry during the academic year 2022 - 2023


Course Co-ordinator


Head of the Department


IQAC Co-ordinator


Principal

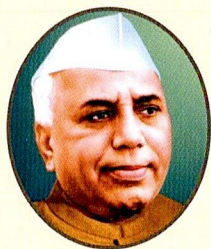
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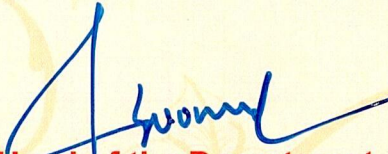
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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Adsw Shrikant Ramesh
of Class B. Sc. III has Completed Short Term Course (3 Months) in
Applied Dairy Chemistry conducted by the department of
Chemistry during the academic year 2022-2023


Course Co-ordinator


Head of the Department


IQAC Co-ordinator


Principal

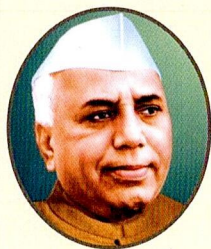
Estd.:

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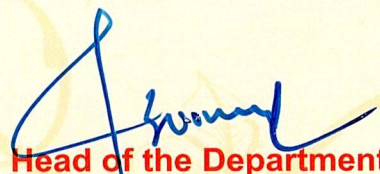


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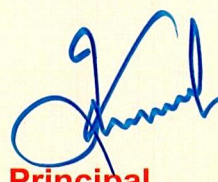
Short Term Course Certificate of Completion

This is to certify that Mr./Miss: Bhandare vishwajeet jagdish
of Class B. Sc.-III has Completed Short Term Course (3 Months) in
Applied Dairy Chemistry conducted by the department of
Chemistry during the academic year 2022-2023


Course Co-ordinator


Head of the Department


IQAC Co-ordinator


Principal

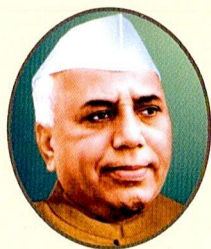
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Short Term Course Certificate of Completion

This is to certify that ~~Mr.~~/Miss. Chorage Maya Sambhaji
of Class B.Sc.-III has Completed Short Term Course (3 Months) in
Applied Dairy Chemistry conducted by the department of
Chemistry during the academic year 2022-2023


Course Co-ordinator


Head of the Department


IQAC Co-ordinator


Principal

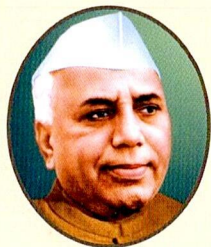
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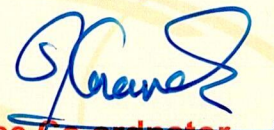


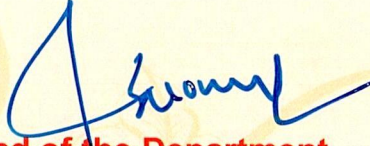
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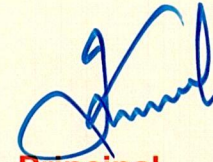
Short Term Course Certificate of Completion

This is to certify that Mr./~~Miss~~. Charan Ganesh Shankar
of Class B.Sc.-III has Completed Short Term Course (3 Months) in _____
Applied Dairy Chemistry conducted by the department of
Chemistry during the academic year 2022 - 2023


Course Co-ordinator


Head of the Department


IQAC Co-ordinator


Principal