

Rtyat Shikshan Sanstha's

**S.S.G.M. College, Kopargaon, Dist- Ahmednagar**

Department of Chemistry

**2019-2020**

**Short Term Course in Dairy Science**

**Board of Studies (BOS)**

Department of Chemistry have decided to start Short term course in Dairy Science . For framing the Syllabus of said course, committee was constituted as follow.

### Board of Studies Member (BOS)

- |                          |                                         |
|--------------------------|-----------------------------------------|
| 1. Prin. Dr. Thopte S.S. | : Chairman                              |
| 2. Mr. Deshmukh A.K.     | :HOD of Chemistry                       |
| 3. Prof. JadhavAjit      | :Placement Officer                      |
| 4. Dr. Malpure N. V.     | :IQAC- Coordinator                      |
| 5. Dr. Konda Rakesh      | :Professional Expert                    |
| 6. Mr. MAITRIYA A D.     | :Director of Shodh Advantech,Aurangabad |

### **Aims and Objectivesof the course:**

- 1)To provide an adequate knowledge of the principles of processes involved in Dairy Science.
- 2) Instrumentation and applications of common analytical techniques
- 3) Knoweledge perspective course
- 4) Application based curruculum
- 5)Understand the operational framework for best practices in Company .



Rayat Shikshan Sanstha's  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and  
Sanjivani Commerce College, Kopargaon  
Department of chemistry

Class – M.Sc. II Analytical chemistry

Date – 10/08/2019

2019-20

Short Term Course in Dairy Science

Meeting Notice

Department of Chemistry conducts a Short Term Course in Dairy Science for M.Sc. Analytical chemistry students, the syllabus and working hours will be discussed and a complete programme have to prepared. Following members are requested to attend the meeting on 11/08/2019 for the implementation of this academic year 2019-2020. The meeting will be held in Department of Chemistry.

Course Co-ordinator,



  
Head  
Department of Chemistry  
S.G.M. College, Kopargaon  
Department of Chemistry

Committee Members:

- 1) Prof P.D. kashid
- 2) Prof A.K. Deshmukh
- 3) Prof R. M. Dawange
- 4) Prof C.S. Chaudhari
- 5) Prof P.K. Sabale
- 6) Prof A.M. Narode

Rayat Shikshan Sanstha's  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and  
Sanjivani Commerce College, Kopargaon  
Department of Chemistry  
Class: M.Sc. II Analytical Chemistry  
Date: 11 /08/2019

Short Term Course - Dairy Science.

Minutes of Meeting

The meeting of the Short Term Course Committee has been conducted on 11/08/2019 at Department of Chemistry. In the meeting the following resolutions and decisions were made:

1. It was decided to finalize the syllabus of Short Term Course - Dairy Science.
2. For conducting the course the complete program of Theory and Practical's was designed.
3. As per the requirements of completion of the syllabus of the Short Term Course the working hours were decided.

Course Co-ordinator



  
Head  
Department of Chemistry  
Department of Chemistry  
S.S.G.M. College, Kopergaon



Rayat Shikshan Sanstha's  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani Commerce  
College Kopargaon-423601  
Dist-Ahmednagar, State: Maharashtra (India)  
Internal Quality Assurance Cell (IQAC)

**Syllabus Approval Letter**

2019-2020

The IQAC committee has approved the submitted syllabus of short term /Certificate course planned to be conducted by the Department of Chemistry .

Sr.NO	Name of Course	Type of Course
01	Short term course in Dairy Science	Short term course

HOD OF Chemistry Department may Proceed accordingly .

Date :- 10/08/2019

Place :- Kopargaon



  
IQAC Coordinator  
IQAC-Coordinator  
S.S.G.M. College, Kopargaon

  
Head  
HEAD  
Department of Chemistry  
S. S. G. M. College, Kopargaon



**RAYAT SHIKSHAN SANSTHA'S**  
**S.S.G.M.COLLEGE, COLLEGE, KOPARGAON**  
**DIST. - AHMEDNAGAR, 423601 (M.S.)**  
**CERTIFICATE COURSE IN DAIRY SCIENCE**  
**Academic Year 2019-20**

**Certificate course in Dairy Science**

**4 Credits**

**Syllabus**

**A. Theory**

**Total 2 Credits**

1. Composition of milk
2. Nutritive value of milk
3. Physico-chemical properties of milk
4. Milk products
5. Preservatives in milk and milk products
6. Adulterants in milk and legal standards
7. Study of Govt. milk scheme and role of co-operative industries
8. Economics of milk production

**B. Practical**

**Total 2 Credits**

1. Study of platform test
  - 1) Sediment test
  - 2) Alcohol test
  - 3) Clot on boiling (COB) test
  - 4) Organoleptic and Temperature
2. Determination of specific gravity of milk from different source by using –
  - 1) Specific gravity bottle
  - 2) Lactometer
3. Determination of fat content in sample of buffalo and cow milk by Gerber method
4. Determination of pH, acidity, total solids and lactose of buffalo and cow milk by Gerber method
5. Determination of casein in milk by pyne's formal titration method and calculation of the % of protein in milk
6. Detection of preservative in milk
  - 1) Boric acid
  - 2) Formaldehyde
7. Detection of adulterants like water, extraction of fat in milk sample
  - 1) Neutralizers
  - 2) Formalin
  - 3) Sugar
  - 4) Starch
  - 5) Glucose
  - 6) Urea
  - 7) ammonium sulphate
  - 8) salt
  - 9) pulverized soap
  - 10) detergents
  - 11) water
  - 12) skim milk powder
  - 13) vegetable fat
  - 14) benzoic and salicylic acid
  - 15) borax and boric acid
8. Determination of chlorine content of the milk volumetrically
9. Study Tour to dairy industry

**References**

- 1) Outline of Dairy Technology- Oxford University press By- Sukumar De. (Edition-1983)
- 2) Dairy Chemistry and Animal Nutrition- M.M. Rai, Kalyani, Publishers, New Delhi 3<sup>rd</sup> Edition, 1980
- 3) Fundamentals of Dairy Chemistry- B.H. Webb, A.H. Hohsson, J.A. Alford, CBB, Publishers and Distributors.
- 4) Milk and Milk Products- C.H. Eckles, H. Macy, Tata McGraw Hill Publishing Company Ltd.

7

**RAYAT SHIKSHAN SANSTHA'S  
S.S.G.M.COLLEGE, COLLEGE, KOPARGAON  
DIST. - AHMEDNAGAR, 423601 (M.S.)**

**CERTIFICATE COURSE IN DAIRY SCIENCE  
Academic Year 2019-20**

**Duration:-3 Months  
Credit:-4**

**Coordinator: - Dr. D.M. Suryawanshi**

**Faculty Members  
1) Mrs. P.D. Kashid  
2) Ms. R. M. Dawange**

**Aim of Course:-**

The aim of the course is to understand the processing of milk and its properties, their quality testing and also storage sanitation and effluent treatment. The course provides individuals with key knowledge of packaging, labeling and food safety. This course requires applying knowledge of science, technology and engineering to the processing and production of milk. The course has been designed for professionals, students aspiring to work in the field of dairy, all involved in implementing and maintaining product quality systems, quality control and quality assurance personnel, new product development personnel.

**Skills and opportunities:-**

Faculty of Food Safety and Quality, course is a professional course targeted to cater the food industry, as there is a demand for trained food professionals. The information, guidance, practical training and completion certificate will provide the participant with not one but many opportunities in the industry. This would come true in form of job roles and positions like that of auditors, quality assurance executives, quality control executives quality managers, position in NPD team, food consultants, food journalism and many more.





Rayat Shikshan Sanstha's,  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani Commerce College,  
Kopargaon, Dist.-Ahmednagar

**Department of Chemistry**  
**Short Term Course - Dairy Science**  
**Year 2019-20**

Sr. No.	Name of Students
1.	Borawake Pooja Devendra
2.	Dawange Jayashri Narayan
3.	Dawange Kavita Mohan
4.	Dawange Priyanka Gorakh
5.	Deokar Prajakta Balasaheb
6.	Divekar Kaveri Eknath
7.	Fodse Manisha Sukdeo
8.	Hingmre Manasi Santosh
9.	Jadhav Sonali Sahebrao
10.	Jadhav Vrushali Vinod
11.	Kharat Shraddha Dattatraya
12.	Pachore Vaibhav Suryabhan
13.	Pawar Mukesh Bapusaheb
14.	Rasal Shubda Anil
15.	Sangale Sadnya Rajendra
16.	Shinde Somnath Dattu
17.	Sonawane Disha Harishchandra
18.	Sonawane Shubham Keshav
19.	Tupe Diksha Bhausahab
20.	Vinchu Ranuka Sanjivkumar
21.	Wable Mahesh Sudamrao



  
**HEAD**  
Deptt. Of Chemistry  
S. S. G. M. College, Kopargaon.



Rayat Shikshan Sanstha's  
S.S.G.M. College, Kopargaon  
Dairy Science  
List of the students

Sr. No.	Name of the students	Amount Rs.	Sign
1	Borawake Pooja Devendra	500/-	Borawake P.
2	Dawange Jayashri Narayan	500/-	Dawange
3	Dawange Kavita Mohan	500/-	Dawange
4	Dawange Priyanka Gorakh	500/-	Dawange
5	Deokar Prajakta Balasaheb	500/-	Deokar
6	Divekar Kaveri Eknath	500/-	Divekar
7	Fodse Manisha Sukdeo	500/-	Fodse
8	Hingmre Manasi Santosh	500/-	Hingmre
9	Jadhav Sonali Saheba	500/-	Jadhav
10	Jadhav Vrushali Vinod	500/-	V.V. Jadhav
11	Kharat Shraddha Dattatraya	500/-	Kharat
12	Pachore Vaibhav Suryabhan	500/-	Pachore
13	Pawar Mukesh Bapusaheb	500/-	Pawar
14	Rasal Shubhdha Anil	500/-	Rasal
15	Sangale Sadnya Rajendra	500/-	Sangale
16	Shinde Somnath Dattu	500/-	Shinde
17	Sonawane Disha Harischandra	500/-	Sonawane
18	Sonawane Shubham Keshav	500/-	Sonawane
19	Tupe Diksha Bhausaheb	500/-	Tupe
20	Vinchu Renuka Sanjivkumar	500/-	Vinchu R.
21	Wable Mahesh Sudamrao	500/-	Wable





Rayat Shikshan Sanstha's  
S.S.G.M. College, Kopargaon



**Short term Course- Admission form**

Name	Hingmire Manasi Saufosh
Class	MSc-II (Analytical)
Address	Shrinadi Niwas, Dharamgaon road, kopargaon
Mobile No	7058686859

To,

The Principal,

SSGM College, Kopargaon, Dist: Ahmednagar.

**Sub: Request to an admission in the following short term course**

**"...Dairy Chemical Science....."**

Respected sir,

I, the undersigned have been admitted in M.Sc II (Analytical) Chemistry class in our college, I wish to complete above short term course run by our college. Kindly do me a favour by granting admission

Yours Faithfully,

Sign:

Name:

Manasi Saufosh Hingmire

Recommended for an admission in the short term course.

Chairman  
Short term course

Course Co-ordinator

Head of department  
HEAD  
Dept. Of Chemistry  
S. S. G. M. College, Kopargaon



Rayat Shikshan Sanstha's  
S.S.G.M. College, Kopargaon



**Short term Course- Admission form**

Name	Shinde Somnath Dattu
Class	MSc-II (Analytical)
Address	AT. post Khandala Tal.veljapur Dist. A. bad
Mobile No	907658407

To,

The Principal

SSGM College, Kopargaon, Dist: Ahmednagar.

**Sub: Request to an admission in the following short term course**

**"...Dairy Chemical Science....."**

Respected sir,

I, the undersigned have been admitted in M.Sc II (Analytical) Chemistry class in our college, I wish to complete above short term course run by our college. Kindly do me a favour by granting admission

Yours Faithfully

Sign: SD

Name: shinde somnath dattu

Recommended for an admission in the short term course.

[Signature]  
Chairman  
Short term course

[Signature]  
Course Co-ordinator

[Signature]  
Head of department

HEAD  
Dept. Of Chemistry  
S. S. G. M. College, Kopargaon



Rayat Shikshan Sanstha's  
SSGM College, Kopergaon

Short Term Course- A Certificate Course in Dairy Science

Class- M.Sc.II Analytical Chemistry

Time Table -2019-20

**December 2019**

<b>Monday (theory)</b>	<b>Tuesday (theory)</b>	<b>Wednesday (theory)</b>
02/12/19 (PDK)	03/12/19 (PDK)	04/12/19 (PDK)
09/12/19 (RMD)	10/12/19 (RMD)	11/12/19 (RMD)
16/12/19 (PKS)	17/12/19 (PKS)	18/12/19 (PKS)
23/12/19 (AMN)	24/12/19 (PDK)	-

**January 2020**

<b>Monday (theory)</b>	<b>Tuesday (theory)</b>	<b>Wednesday (theory)</b>
06/01/2020 (PDK)	07/1/2020 (PDK)	08/01/2020 (PDK)
13/01/2020 (RMD)	14/01/2020 (RMD)	15/01/2020 (RMD)
20/01/2020 (PKS)	28/12/2020 (PKS)	29/01/2020 (PKS)

**February 2020**

<b>Monday (Practical)</b>	<b>Tuesday (practical)</b>	<b>Wednesday (practical)</b>
3/2/2020 (PDK)	4/2/2020(AKD)	5/2/2020 (RMD)
10/2/2020 (AKD)	11/2/2020 (PDK)	12/2/2020(AKD)
17/2/2020 (RMD)	18/2/2020 (PDK)	-



Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

List of the students

Dairy Science

Sr. No.	Name of the students	2/12/19	3/12/19	4/12/19	9/12/19	10/12/19
1	Borawake Pooja Devendra	Borawake	Borawake	Borawake	Borawake	Borawake
2	Dawange Jayashri Narayan	Dawange	Dawange	Dawange	Dawange	Dawange
3	Dawange Kavita Mohan	Dawange	Dawange	Dawange	Dawange	Dawange
4	Dawange Priyanka Gorakh	Dawange	Dawange	Dawange	Dawange	Dawange
5	Deokar Prajakta Balasaheb	Deokar	Deokar	Deokar	Deokar	Deokar
6	Divekar Kaveri Eknath	Divekar	Divekar	Divekar	Divekar	Divekar
7	Fodse Manisha Sukdeo	Fodse	Fodse	Fodse	Fodse	Fodse
8	Hingmire Manasi Santosh	Hingmire	Hingmire	Hingmire	Hingmire	Hingmire
9	Jadhav Sonali Sahebrao	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
10	Jadhav Vrushali Vinod	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
11	Kharat Shraddha Dattatraya	Kharat	Kharat	Kharat	Kharat	Kharat
12	Pachore Vaibhav Suryabhan	Pachore	Pachore	Pachore	Pachore	Pachore
13	Pawar Mukesh Bapusaheb	Pawar	Pawar	Pawar	Pawar	Pawar
14	Rasal Shubdha Anil	Rasal	Rasal	Rasal	Rasal	Rasal
15	Sangale Sadnya Rajendra	Sangale	Sangale	Sangale	Sangale	Sangale
16	Shinde Somnath Dattu	Shinde	Shinde	Shinde	Shinde	Shinde
17	Sonawane Disha Harischandra	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
18	Sonawane Shubham Keshav	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
19	Tupe Diksha Bhausahab	Tupe	Tupe	Tupe	Tupe	Tupe
20	Vinchu Renuka Sanjivkumar	Vinchu	Vinchu	Vinchu	Vinchu	Vinchu
21	Wable Mahesh Sudamrao	Wable	Wable	Wable	Wable	Wable



Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

List of the students

Dairy Science

Sr. No.	Name of the students	11/12/19	16/12/19	17/12/19	18/12/19	23/12/19
1	Borawake Pooja Devendra	Borawake	Borawake	Borawake	Borawake	Borawake
2	Dawange Jayashri Narayan	Dawange	Dawange	Dawange	Dawange	Dawange
3	Dawange Kavita Mohan	Dawange	Dawange	Dawange	Dawange	Dawange
4	Dawange Priyanka Gorakh	Dawange	Dawange	Dawange	Dawange	Dawange
5	Deokar Prajakta Balasaheb	Deokar	Deokar	Deokar	Deokar	Deokar
6	Divekar Kaveri Eknath	Divekar	Divekar	Divekar	Divekar	Divekar
7	Fodse Manisha Sukdeo	Fodse	Fodse	Fodse	Fodse	Fodse
8	Hingmire Manasi Santosh	Hingmire	Hingmire	Hingmire	Hingmire	Hingmire
9	Jadhav Sonali Sahebrao	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
10	Jadhav Vrushali Vinod	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
11	Kharat Shraddha Dattatraya	Kharat	Kharat	Kharat	Kharat	Kharat
12	Pachore Vaibhav Suryabhan	Pachore	Pachore	Pachore	Pachore	Pachore
13	Pawar Mukesh Bapusaheb	Pawar	Pawar	Pawar	Pawar	Pawar
14	Rasal Shubdha Anil	Rasal	Rasal	Rasal	Rasal	Rasal
15	Sangale Sadnya Rajendra	Sangale	Sangale	Sangale	Sangale	Sangale
16	Shinde Somnath Dattu	Shinde	Shinde	Shinde	Shinde	Shinde
17	Sonawane Disha Harischandra	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
18	Sonawane Shubham Keshav	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
19	Tupe Diksha Bhausahab	Tupe	Tupe	Tupe	Tupe	Tupe
20	Vinchu Renuka Sanjivkumar	Vinchu	Vinchu	Vinchu	Vinchu	Vinchu
21	Wable Mahesh Sudamrao	Wable	Wable	Wable	Wable	Wable



Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

List of the students

Dairy Science

Sr. No.	Name of the students	24/1/19	6/1/2020	7/1/2020	8/1/20	13/1/20
1	Borawake Pooja Devendra	Borawake	Borawake	Borawake	Borawake	Borawake
2	Dawange Jayashri Narayan	Dawange	Dawange	Dawange	Dawange	Dawange
3	Dawange Kavita Mohan	Dawange	Dawange	Dawange	Dawange	Dawange
4	Dawange Priyanka Gorakh	Dekeu	Dekeu	Dekeu	Dekeu	Dekeu
5	Deokar Prajakta Balasaheb	Peekar	Peekar	Peekar	Peekar	Peekar
6	Divekar Kaveri Eknath	KVE	KVE	KVE	KVE	KVE
7	Fodse Manisha Sukdeo	Mfodse	Mfodse	Mfodse	Mfodse	Mfodse
8	Hingmire Manasi Santosh	Mhingmire	Mhingmire	Mhingmire	Mhingmire	Mhingmire
9	Jadhav Sonali Sahebrao	Stadi	Stadi	Stadi	Stadi	Stadi
10	Jadhav Vrushali Vinod	v.v.jadhav	v.v.jadhav	v.v.jadhav	v.v.jadhav	v.v.jadhav
11	Kharat Shraddha Dattatraya	Sshardha	Sshardha	Sshardha	Sshardha	Sshardha
12	Pachore Vaibhav Suryabhan	Vpachore	Vpachore	Vpachore	Vpachore	Vpachore
13	Pawar Mukesh Bapusaheb	Mpawar	Mpawar	Mpawar	Mpawar	Mpawar
14	Rasal Shubdha Anil	Arasal	Arasal	Arasal	Arasal	Arasal
15	Sangale Sadnya Rajendra	Ssangale	Ssangale	Ssangale	Ssangale	Ssangale
16	Shinde Somnath Dattu	Dshinde	Dshinde	Dshinde	Dshinde	Dshinde
17	Sonawane Disha Harischandra	Dsonawane	Dsonawane	Dsonawane	Dsonawane	Dsonawane
18	Sonawane Shubham Keshav	Ssonawane	Ssonawane	Ssonawane	Ssonawane	Ssonawane
19	Tupe Diksha Bhausahab	Ttupe	Ttupe	Ttupe	Ttupe	Ttupe
20	Vinchu Renuka Sanjivkumar	Vinchu	Vinchu	Vinchu	Vinchu	Vinchu
21	Wable Mahesh Sudamrao	Wable	Wable	Wable	Wable	Wable



Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

List of the students

Dairy / ~~Chemical~~ Science

Sr. No.	Name of the students	14/1/20	15/1/20	20/1/20	28/1/20	29/1/20
1	Borawake Pooja Devendra	<del>Borawake</del>	<del>Borawake</del>	<del>Borawake</del>	<del>Borawake</del>	<del>Borawake</del>
2	Dawange Jayashri Narayan	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>
3	Dawange Kavita Mohan	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>
4	Dawange Priyanka Gorakh	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>	<del>Dawange</del>
5	Deokar Prajakta Balasaheb	<del>Deokar</del>	<del>Deokar</del>	<del>Deokar</del>	<del>Deokar</del>	<del>Deokar</del>
6	Divekar Kaveri Eknath	<del>Divekar</del>	<del>Divekar</del>	<del>Divekar</del>	<del>Divekar</del>	<del>Divekar</del>
7	Fodse Manisha Sukdeo	<del>Fodse</del>	<del>Fodse</del>	<del>Fodse</del>	<del>Fodse</del>	<del>Fodse</del>
8	Hingmire Manasi Santosh	<del>Hingmire</del>	<del>Hingmire</del>	<del>Hingmire</del>	<del>Hingmire</del>	<del>Hingmire</del>
9	Jadhav Sonali Sahebrao	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>
10	Jadhav Vrushali Vinod	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>	<del>Jadhav</del>
11	Kharat Shraddha Dattatraya	<del>Kharat</del>	<del>Kharat</del>	<del>Kharat</del>	<del>Kharat</del>	<del>Kharat</del>
12	Pachore Vaibhav Suryabhan	<del>Pachore</del>	<del>Pachore</del>	<del>Pachore</del>	<del>Pachore</del>	<del>Pachore</del>
13	Pawar Mukesh Bapusaheb	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>
14	Rasal Shubdha Anil	<del>Rasal</del>	<del>Rasal</del>	<del>Rasal</del>	<del>Rasal</del>	<del>Rasal</del>
15	Sangale Sadnya Rajendra	<del>Sangale</del>	<del>Sangale</del>	<del>Sangale</del>	<del>Sangale</del>	<del>Sangale</del>
16	Shinde Somnath Dattu	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>
17	Sonawane Disha Harischandra	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>
18	Sonawane Shubham Keshav	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>	<del>Sonawane</del>
19	Tupe Diksha Bhausahab	<del>Tupe</del>	<del>Tupe</del>	<del>Tupe</del>	<del>Tupe</del>	<del>Tupe</del>
20	Vinchu Renuka Sanjivkumar	<del>Vinchu</del>	<del>Vinchu</del>	<del>Vinchu</del>	<del>Vinchu</del>	<del>Vinchu</del>
21	Wable Mahesh Sudamrao	<del>Wable</del>	<del>Wable</del>	<del>Wable</del>	<del>Wable</del>	<del>Wable</del>




Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

List of the students

Dairy ~~Chemical~~ Science

Sr. No.	Name of the students	3/2/20	4/2/20	5/2/20	10/2/20	11/2/20
1	Borawake Pooja Devendra	Borawake	Borawake	Borawake	Borawake	Borawake
2	Dawange Jayashri Narayan	Dawange	Dawange	Dawange	Dawange	Dawange
3	Dawange Kavita Mohan	Dawange	Dawange	Dawange	Dawange	Dawange
4	Dawange Priyanka Gorakh	Dawange	Dawange	Dawange	Dawange	Dawange
5	Deokar Prajakta Balasaheb	Deokar	Deokar	Deokar	Deokar	Deokar
6	Divekar Kaveri Eknath	Kaveri	Kaveri	Kaveri	Kaveri	Kaveri
7	Fodse Manisha Sukdeo	Fodse	Fodse	Fodse	Fodse	Fodse
8	Hingmire Manasi Santosh	Hingmire	Hingmire	Hingmire	Hingmire	Hingmire
9	Jadhav Sonali Sahebrao	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
10	Jadhav Vrushali Vinod	V.V. Jadhav	V.V. Jadhav	V.V. Jadhav	V.V. Jadhav	V.V. Jadhav
11	Kharat Shraddha Dattatraya	Kharat	Kharat	Kharat	Kharat	Kharat
12	Pachore Vaibhav Suryabhan	Pachore	Pachore	Pachore	Pachore	Pachore
13	Pawar Mukesh Bapusaheb	Pawar	Pawar	Pawar	Pawar	Pawar
14	Rasal Shubdha Anil	Rasal	Rasal	Rasal	Rasal	Rasal
15	Sangale Sadnya Rajendra	Sangale	Sangale	Sangale	Sangale	Sangale
16	Shinde Somnath Dattu	Shinde	Shinde	Shinde	Shinde	Shinde
17	Sonawane Disha Harischandra	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
18	Sonawane Shubham Keshav	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
19	Tupe Diksha Bhausahab	Tupe	Tupe	Tupe	Tupe	Tupe
20	Vinchu Renuka Sanjivkumar	Vinchu	Vinchu	Vinchu	Vinchu	Vinchu
21	Wable Mahesh Sudamrao	Wable	Wable	Wable	Wable	Wable





Rayat Shikshan Sanstha's

S.S.G.M. College, Kopergaon

## List of the students

## Dairy Science

Sr. No.	Name of the students	12/2/20	17/2/20	18/2/20	20/2/20	22/2/20
1	Borawake Pooja Devendra	Borawake	Borawake	Borawake	Borawake	Borawake
2	Dawange Jayashri Narayan	Dawange	Dawange	Dawange	Dawange	Dawange
3	Dawange Kavita Mohan	Dawange	Dawange	Dawange	Dawange	Dawange
4	Dawange Priyanka Gorakh	Dawange	Dawange	Dawange	Dawange	Dawange
5	Deokar Prajakta Balasaheb	Deokar	Deokar	Deokar	Deokar	Deokar
6	Divekar Kaveri Eknath	Divekar	Divekar	Divekar	Divekar	Divekar
7	Fodse Manisha Sukdeo	Fodse	Fodse	Fodse	Fodse	Fodse
8	Hingmire Manasi Santosh	Hingmire	Hingmire	Hingmire	Hingmire	Hingmire
9	Jadhav Sonali Sahebrao	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
10	Jadhav Vrushali Vinod	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
11	Kharat Shraddha Dattatraya	Kharat	Kharat	Kharat	Kharat	Kharat
12	Pachore Vaibhav Suryabhan	Pachore	Pachore	Pachore	Pachore	Pachore
13	Pawar Mukesh Bapusaheb	Pawar	Pawar	Pawar	Pawar	Pawar
14	Rasal Shubdha Anil	Rasal	Rasal	Rasal	Rasal	Rasal
15	Sangale Sadnya Rajendra	Sangale	Sangale	Sangale	Sangale	Sangale
16	Shinde Somnath Dattu	Shinde	Shinde	Shinde	Shinde	Shinde
17	Sonawane Disha Harischandra	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
18	Sonawane Shubham Keshav	Sonawane	Sonawane	Sonawane	Sonawane	Sonawane
19	Tupe Diksha Bhausahab	Tupe	Tupe	Tupe	Tupe	Tupe
20	Vinchu Renuka Sanjivkumar	Vinchu	Vinchu	Vinchu	Vinchu	Vinchu
21	Wable Mahesh Sudamrao	Wable	Wable	Wable	Wable	Wable



Rtyat Shikshan Sanstha's

**S.S.G.M. College, Kopergaon, Dist- Ahmednagar**  
**Department of Chemistry**

**2019 - 20**

**Question Paper of Short Term Course in Dairy Science**

**Que. Multiple Choice questions.**

**Total Marks: 50**

**N.B. 1. All questions are compulsory**

**2. Each question carry two marks.**

1. By regulation, milk from cows treated with antibiotics usually must be withheld for \_\_\_ hours.

- a) 48 - 72
- b) 30 - 60
- c) 48 - 108
- d) 72 - 96

2. Rules developed by the \_\_\_ are designed to protect the health and welfare of consumers.

- a) United States Department of Agriculture (USDA)
- b) Protein and Lactose Organization (PLO)
- c) Future Farmers of America (FFA)
- d) Food and Drug Administration (FDA)

3. What is the principal carbohydrate in the milks of all mammals?

- a. Lactose
- b. Glucose
- c. Sucrose
- d. Fructose

4. Percentage of water in buffalo milk is:-

- a. 65-67 %
- b. 70-75 %
- c. 80-85 %
- d. 87-90 %

Dairy Technology Mcq Questions

5. Soft fats in milk fat are:-

- a. Lauric & Stearic
- b. Capric & Lauric
- c. Oleic & Butyric
- d. Oleic & Lauric

6. Principal protein in milk is:-

- a. Albumin
- b. Lactalbumin
- c. Casein
- d. Lactoglobulin

7. Percentage of mineral matter in milk is about :-

- a. 1 %
- b. 0.7 %
- c. 1.5 %
- d. 0.05 %

8. Example of soft cheese is:-

- a. Cheddar
- b. Swiss
- c. Brick
- d. Cottage

9. Under which of the following weather conditions would you expect to observe the greatest decrease in milk yield per cow?

- a) Cold and dry
- b) Hot and humid
- c) Cool and humid
- d) Warm and dry

10. Mixture of milk and cream containing not less than 10.5 percent milk fat, but less than 18 percent milk fat, is the definition of?

- a) Light whipping cream
- b) Light cream
- c) Half-and-half
- d) Heavy cream

Dairy Technology Mcq Questions

11. The feed additive isoacid gives a \_\_\_ pound daily milk response, with maximum response in early lactation.

- a) 2 to 4
- b) 4 to 6
- c) 6 to 8
- d) 8 to 10

Dairy Technology Mcq Questions

12. Lactose has water solubility of

- a. 100%
- b. 50%
- c. 18%
- d. 25%

13. Which enzyme is tested for cream pasteurization?

- a. Plasmin
- b. Phosphatas
- c. Catalase
- d. peroxidase

14. Milk is a good source of all water-soluble vitamins except for \_\_\_

- a) Cyanocobalmin
- b) Riboflavin
- c) Ascorbic Acid
- d) Thiamine

15. \_\_\_ is a milk process that makes milk more easily digested by those with a sensitive digestive system.

- a) Ionization
- b) Evaporation
- c) Pasteurization
- d) Homogenization

16. \_\_\_ amino acids are commonly found in milk proteins, including the essential amino acids.

- a) 7
- b) 12
- c) 14
- d) 19

17. Summer milk has been estimated to contain 1.6 times as much vitamin \_\_\_ as winter milk.

- a) A
- b) B
- c) C
- d) D

18. The milk becomes the property of the buyer once ?

- a) The transport truck reaches the plant
- b) It is loaded into the transport truck on the farm

- c) The transport truck leaves the farm  
d) It is unloaded into the processor's bulk tanks
19. Cows with \_\_\_ have a higher incidence of mastitis because physical injury is more likely.
- a) Sickled hocks
  - b) Horns
  - c) Lower foot angles
  - d) Pendulous udders
20. Of the listed below products, which contains no dairy ingredients?
- a) Gelato
  - b) Sherbet
  - c) Custard
  - d) Sorbet
21. As it comes from a cow, the solids portion of milk contains approximately 3.7 percent fat and \_\_\_ percent solids-not-fat.
- a) 3%
  - b) 6%
  - c) 9%
  - d) 12%
22. Milk contains 87 % water and the rest is solids and fats. Which of the following is not included as milk solid?
- a) Protein
  - b) Water
  - c) Carbohydrate
  - d) Milk Fat
23. The part of the mammary gland where milk is produced is called:
- a) Capillary
  - b) Teat Cistern
  - c) Chine
  - d) Alveolus
24. The heritability of the traits for milk production is:
- a) 15%
  - b) 25%
  - c) 55%
  - d) 100%
25. The Primary Milk carbohydrate is:
- a) Leucine
  - b) Sucrose
  - c) Arginine
  - d) Lactose

Rajat Shikshan Sanstha's  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts and  
Sanjivani Commerce College, Kopargaon  
Result of Certificate course in Dairy science (2019-20)

Sr.No.	Name	Marks out of 50
1	Borawake Pooja Devendra	32
2	Dawange Jayashree Narayan	39
3	Dawange Kavita Mohan	35
4	Dawange Priyanka Gorakh	41
5	Deokar Prajakta Balasaheb	36
6	Divekar Kaveri Eknath	42
7	Fodse Manisha Sukhdeo	39
8	Hingmire Mansi Santosh	44
9	Jadhav Sonali Sahebrao	45
10	Jadhav Vrushali Vinod	33
11	Kharat Shraddha Dattatray	36
12	Pachore Vaibhav Surybhan	42
13	Pawar Mukesh Bapusaheb	39
14	Rasal Shubhada Anil	44
15	Sangale Sandhya Rajendra	45
16	Shinde Somnath Dattu	33
17	Sonawane Disha Harishchandra	35
18	Sonawane Shubham Keshav	37
19	Tupe Diksha Bhausaheb	33
20	Vinchu Renuka Sanjivkumar	40
21	Wabale Mahesh Sudamrao	43





23

Rayat Shikshan Sanstha's  
S.S.G.M.College, Kopargaon  
Dist.-Ahmednagar

### Certificate Course

### Feedback Form (Year 2019-20)

How you like this activity?

(Please tick (✓) on the appropriate option)

Criteria's	Excellent	Very Good	Good	Average	Poor
Content of the curriculum	✓				
Quality of Lectures		✓			
Quality of Practical's	✓				
Arrangement of Tour and hands on training collaboratively organized	✓				
Is the course is applicable for entrepreneurship development in your future life		✓			
Overall Evaluation of the Course	✓				
Is the course is beneficial for students & Parents as far as environment & Crop production is concerned	✓				
<b>Any Suggestions:</b>					

Name of the Students: Dawange Priyanka Georakh

Class: Msc-II

Signature:



Rayat Shikshan Sanstha's  
S.S.G.M.College, Kopargaon  
Dist.-Ahmednagar

## Certificate Course

### Feedback Form (Year 2019-20)

How you like this activity?

(Please tick (✓) on the appropriate option)

Criteria's	Excellent	Very Good	Good	Average	Poor
Content of the curriculum					
Quality of Lectures		✓			
Quality of Practical's		✓			
Arrangement of Tour and hands on training collaboratively organized	✓				
Is the course is applicable for entrepreneurship development in your future life		✓			
Overall Evaluation of the Course		✓			
Is the course is beneficial for students & Parents as far as environment & Crop production is concerned		✓			
Any Suggestions:	NO				

Name of the Students: Jadhav sonali sahebrao

Class: MSc - II

Signature: Jadhav



Rayat Shikshan Sanstha's  
S.S.G.M.College, Kopargaon  
Dist.-Ahmednagar

**Certificate Course**

**Feedback Form (Year 2019-20)**

How you like this activity?

(Please tick (✓) on the appropriate option)

Criteria's	Excellent	Very Good	Good	Average	Poor
Content of the curriculum					
Quality of Lectures		✓			
Quality of Practical's		✓			
Arrangement of Tour and hands on training collaboratively organized	✓				
Is the course is applicable for entrepreneurship development in your future life		✓			
Overall Evaluation of the Course		✓			
Is the course is beneficial for students & Parents as far as environment & Crop production is concerned		✓			
<b>Any Suggestions:</b>					

Name of the Students: Jadhav vrushali vinod

Class: Msc-II

Signature: ✓ J.V.Jadhav





Rayat Shikshan Sanstha's  
**SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM  
ARTS & SANJIVANI COMMERCE COLLEGE, KOPARGAON**  
DIST. AHMEDNAGAR 423 601, MAHARASHTRA, INDIA  
AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



Certificate of appreciation

This is to certify that.....of Class M.Sc.-II (Analytical Chemistry) has Successfully completed short term course in "Dairy Science" for academic year 20 -20 secured.....Grade.

Co-ordinator

Head of Department

Principal

Rayat Shikshan Sanstha's  
Shri Sadguru Gangageer Maharaj Science, Gautam Arts & Sanjivani Commerce  
College, Kopargaon. Dist-Ahmednagar-423601.

2019 - 20

## Report

The department of chemistry conducted a Short Term Course entitled **Dairy Science**. Total 21 students of M. Sc. Analytical Chemistry were admitted in the course. The duration of course was three months. The course was conducted satisfactorily by the Department of chemistry.



  
Head  
Department of Chemistry  
S.S.G.M. College, Kopargaon.