Dairy Science

(Short Term Course)

Co-ordinate by:

Department of chemistry

Class:

M. Sc. II Analytical Chemistry

Batch Capacity:

25

No. of students Admitted:

20

Duration of the course:

3 months

Fee of course:

500/-

Lecture and practical started:

December, January and February

Tentative date of examination:

1st Week of March

Tentative date of Result:

2nd Week of March

Syllabus:

4 credits (20 Theory, 40Practicals)

Co-ordinator:

Mr. A. S. Gandule





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

Department of Chemistry

2020-2021

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

Mr. Deshmukh A.K. :HOD of Chemistry
 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:

- 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 currruculum
- 5)Understand the operational framework for best practices in Company .



HEAD
Deptt. Of Chemistry

S G M. College, Kopargaon

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 - 26/11/2020

2020-21

Short Term Course in Dairy Science

Notice to Students

All students of M.Sc. II Analytical chemistry are informed that Department of chemistry is conducting the Short Term Course entitled "Dairy science". All the interested students should submit their names to Prof. A. S. Gandule on or before 30-11-2020.

Co-ordinator,

CHEMISTRY W

Department of chemistry

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 - 30/11/2020

2020-21

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 01/12/20 for the implementation of this academic year 2020-2021. The meeting will be held in Department of Chemistry.

Course Co-ordinator,



Department of Chemistry

Department of Chemistry

Department of Chemistry

Committee Members:

- 1) Prof P.D. kashid
- 2) Prof A.K. Deshmukh
- 3) Prof A. A. Lohakane
- 4) Prof C.S.Chaudhari
- 5) Prof D.J. Gadekar
- 6) Prof D. S. Gorde

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: 30 /11/2020

Short Term Course - Dairy Science.

Minutes of Meeting

The meeting of the Short Term Course Committee has been conducted on 30/11/2020 at Department of Chemistry. In the meeting the following resolutions and decisions were made:

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

Course Co-ordinator

CHEMISTRY &

Head Head Department of Chestistry S.S.G.M.Collegs, Kopargaon



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

2020-21

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

77.11.4()	Name of Course	Trans. CO		
01	Short term course in Daine C.	Type of Course		
		Short term course		

HOD OF Chemistry Department may Proceed accordingly.

Date :- 10/08/2020

Place :- Kopargaon

S NO PLEGO

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

coordinator

Department of Chemistry

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

Certificate course in Dairy Science

4 Credits

Syllabus

A. Theory

- 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
- 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

Tota2Credits

- Study of platform test
 - Sediment test2) Alcohol test3) Clot on boiling (COB) test 4) Organoleptic and Temperature
- Determination of specific gravity of milk from different source by using –
 Specific gravity bottle 2) Lactometer
- 3. Determination of fat centent in sample of buffalo and cow milk by Gerber method
- Determination of pH, acidity, total solids and lactose of buffalo and cow milk by Gerber method
- 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) Formaidehyde
- Detection of adulterants like water, extraction of fat in milk sample!) Neutralizers
 2)Formalin 3)Sugar 4)Starch 5)Glucose 6)Urea 7) ammonium sulphate 8)salt 9)pulverized soap10) detergents11) water12) skim milk powder13) vegetable fat14) 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

- Qutline of Dairy Technology-Oxfored University press By- Sukumar De. (Edition-1983)
- Dairy Chemistry and Animal Nutrition- M.M. Rai, Kalyani, Publishers, New Delhi 3"Edition, 1980
- Fundamentals of Dairy Chemistry- B.H. Webb, A.H. Hohsson, J.A. Alford, CBB, Publishers and Distributors.
- Milk and Milk Products- C.H. Eckles, H. Macy, Tata McGraw Hill PublishingCompany Ltd.



Total 2 Credits

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

CERTIFICATE COURSE IN DAIRY SCIENCE



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.



Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani Commerce College, Kopargaon, Dist.-Ahmednagar

Department of Chemistry Short Term Course - Dairy Science Year 2020-21

Sr. No.	Name of Students	
1	Aher Shruti Rajendra	
2	Aher Shubham Harichandra	
3	Bankar Anuja Rajendra	
4	Bhagwat Monali Tarachand	
5	Chaudhari Sujata Annasaheb	
6	Gade Suvarna Madhukar	
7	Gadhe Pooja Vishwanath	
8	Gaikwad Bhavana Sanjay	
9	Gaikwad Pranali Bhagwan	
10	Gaikwad Sunita Ankush	
11	Ghule Pratiksha Dattatray	
12	Gorde Dipali Anandrao	
13	Navale Gayatri Arun	
14	Sangale Nikita Punjaram	
15	Sanvatsarkar Sneha Kailas	
16	Shinde Priyanka Madhukar	
17	Shinde Sukanya Babasaheb	
18	Tambe Ketan	
19	Thombare Sudarshan	
20	Wani Monika	
21	Turakane Monika	



HEAD
Deptt. Of Chemistry
S. & G. M. College, Koparasor-



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

Short term Course- Admission form



Name	01 2 1 2 2 1 1
	Aher Shruti Rajendra
Class	Msc - I (Analytical chemistry)
Address	Alp - Pergaon Tal- Kopergaon.
Mobile No	9657317967

To,

The Principal

SSGM College, Kopargaon, Dist: Ahemednagar.

Sub: Request to 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: Shruti

ign. Street

Name:

Ahershruti Rajendra.

Recommended for an admission in the short term course.

Charman

Short term course

Course Corordinator

Head of department

Deptt. Of Chemistry S. S. G. M. College, Kopargaor



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

Short term Course- Admission form



Name	Barokal Anuja Rajendra.
Class	MSCII Analytical chemistry.
Address	Alp Sangvi Bhusat. Tal- Kopatgaon.
Mobile No	8805569624.

To,

The Principal

SSGM College, Kopargaon, Dist: Ahemednagar.

Sub: Request to 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: Rankat.

Name: Bankal Anuja Rajendra.

Recommended for an admission in the short term course.

Charman

Short term course

Course Co-ordinator

Head of department

Depti. Of Chemistry 9, 5, 6, M. Cellege, Repaigage



SSGM College, Kopargaon

Short Term Course- A Certificate Course in Dairy Chemical Science

Class- M.Sc.II Analytical Chemistry

Time Table -2020-21

December 2020

Monday (theory)	Tuesday (theory)	Wednesday (theory)
02/12/20 (PDK)	03/12/20 (PDK)	04/12/20 (PDK)
09/12/20 (ASG)	10/12/20 (ASG)	11/12/20 (ASG)
16/12/20 (RKJ)	17/12/20 (RKJ)	18/12/20 (RKJ)
23/12/20 (AMN)	24/12/20 (PDK)	

January 2021

Monday (theory)	Tuesday (theory)	Wednesday (theory)
06/01/2021 (PDK)	07/1/2021 (PDK)	08/01/2021 (PDK)
13/01/2021 (ASG)	14/01/2021 (ASG)	15/01/2021 (ASG)
27/01/2021 (AMN)	28/01/2021 (AMN)	29/01/2021 (AMN)

February 2021

Monday (Practical)	Tuesday (practical)	Wednesday (practical)
3/2/2021 (PDK)	4/2/2021(AKD)	5/2/2021 (AMN)
10/2/2021 (AKD)	11/2/2021 (PDK)	12/2/2021(AKD)
17/2/2021 (AMN)	18/2/2021 (AMN)	



S.S.G.M. College, Kopargaon

Attendance of the students

Dairy '_ Science

Sr. No.	Name of the students	02/12/20	03/12/20	04 12 20	09 12 20	10/12/20
1.	Aher Shruti Rajendra	Strust	Smooth		Smul	Short
2.	Aher Shubham Harichandra	Shubhan	chubns	3h Sh	Shubs	Shub?
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8.	Gaikwad Bhavana Sanjay	Prairiand	Rechaus	Baikwal	Deirewal	Raikwal
9.	Gaikwad Pranali Bhagwan		Buighard			
10.	Gaikwad Sunita Ankush		Buikwad			
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S.S.G.M. College, Kopargaon

Attendance of the students

Dairy Science

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S.S.G.M. College, Kopargaon

Attendance of the students

Dairy Science

Sr. No.	Name of the students	24112120	06 1 21	07/1/21	08 1 21	1311121
1.	Aher Shruti Rajendra	shouli-	shows			
2.	Aher Shubham Harichandra	shubh	Shw6h	shulda		-
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S.S.G.M. College, Kopargaon

Attendance of the students

Dairy Gar _ at Science

Sr. No.	Name of the students	14/1/21	15[1]2]	2711121	28/1/2/	29 1 2
1.	Aher Shruti Rajendra	shout				Sme
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3.	Bankar Anuja Rajendra	Perrkos-	Frankos	-	Spankat	dantoul
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S.S.G.M. College, Kopargaon

Attendance of the students

Dairy Chamical Science

Sr. No.	Name of the students	03/2/21	04 2 2	10 2 2	12 2 2	17/2/21	1812121
1.	Aher Shruti Rajendra	shows		oma	Show		Short
2.	Aher Shubham Harichandra	shub	Shul 2		28hwill		2 Shurk
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S.S.G.M. College, Kopargaon, Dist- Ahmednagar

Department of Chemistry

2020 - 21

Question Paper of Short Term Course in I	Dairy Science
Que. Multiple Choice questions. N.B. 1. All questions are compulsory 2. Each question carry two marks.	Total Marks: 50
1.By regulation, milk from cows treated with antibiotics usually must be a) 48 – 72	e withheld for hours.
b) 30 – 60 c) 48 – 108	
d) 72 – 96	
Rules developed by the are designed to protect the health and we	lfare 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 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 have a higher incidence of mastitis because physical injury is more likely. 19.Cows with 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 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) Leucineb) Sucrosec) Arginined) Lactose

Rayat Shikshan Sanstha's Shri Sadguru Gangageer Maharaj Science, Gautam Arts and Sanjivani Commerce College, Kopargaon Result of Certificate course in Dairy science (2020-21)

Sr.No.	Name	Marks out of 50
1	Aher Shruti Rajendra	36
2	Aher Shubham Harischandra	42
3	Bankar Anuja Rajendra	39
4	Bhagwat Monali Tarachand	44
5	Chaudhari Sujata Annasaheb	45
	Gade Suvarna Madhukar	33
6	Gadhe Pooja Vishwanath	35
7	Gaikwad Bhavana Sanjay	37
8	Gaikwad Pranali Bhagwan	33
9	Gaikwad Sunita Ankush	40
10		43
11	Ghule Pratiksha Dattatray	46
12	Gorde Dipali Anandrao	33
13	Nawale Gayatri Arun	30
14	Sangale Nikita Punjaram	
15	Sanvatsarkar Sneha Kailas	41
16	Shinde Priyanka Masdhukar	38
17	Tambe Ketan	35
18	Thombare Sudarshan	41
19	Wani Monika	36
20	Turkane Monika	34
21	Shinde Sukanya	30





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 ($\sqrt{}$)on the appropriate option)

Criteria's	Excellent	Very Good	Good	Average	Poor
Content of the curriculum	~				
Quality of Lectures	~				
Quality of Practical's		1			
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:			1111		

Name of the Students: M	Aher	Shubham	
Class: M-SC II			
Signature: Shubhama			



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

Certificate Course

Feedback Form (Year 2020-21)

How you like this activity?

(Please tick ($\sqrt{}$)on the appropriate option)

Criteria's	Excellent	Very Good	Good	Average	Poor
Content of the curriculum		~			1 001
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					

Name of the Students: Bankas Anuja Rajendra	
Class: MSCII Analytical chemistry.	
Signature: Spandar	



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

Certificate Course

Feedback Form (Year 2010-20)

How you like this activity?

(Please tick (√)on the appropriate option)

Criteria's	Excellent	Very Goo			
Content of the curriculum		1000	d Good	Average	Poor
Quality of Lectures		1			
Quality of Practical's				-	
Arrangement of Tour and		ATT .			
collaboratively organized			1		
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verall Evaluation of the					
the course is beneficial		Bone			
as environment & Crop duction is concerned					
y Suggestions:			1		- 1

Name of the Students: Chardhasi Annasaheb

Class: MSCIF. Analyptical. Chemistry

Signature:



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



Certificate of appreciation

Co-ordinator

Head of Department

Principal



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

Report

The department of chemistry conducted a Short Term Course entitled **Dairy Science.** Total 2d 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.

CHEMISTRY 4

Department of Chemistry
SSSGACCollege.oKongageon.