



JNAN VIKAS MANDAL'S
Amratlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmashree (Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli Navi Mumbai

Date: 18/06/2022

NOTICE

All faculties of the Science Department are hereby informed that tomorrow on 20th June 2022 there will be meeting at 12:00 noon in Chemistry Lab.
All the members are requested to be present for the same.

AGENDA

- 1] To discuss about conducting "Certificate Course" for T.Y.B.Sc. class.
- 2] Any other matter with the permission of Chairperson.



Leena
Dr. Leena Sarkar
(Principal & Chairperson)

PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC.- 19, AIROLI,
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Date :- 20/06/2022

Minutes of the Meeting

Chemistry Department meeting was held on 20th June 2022 at 12.00 noon chaired by Principal Dr. Leena Sarkar

Following points were discussed in the meeting :-

- 1] Principal Dr. Leena Sarkar madam suggested Certificate Course should be conducted for T.Y. B.Sc. students.
- 2] Principal Dr. Leena Sarkar madam appointed Asst. Prof. Sandhya Patil as a convenor for conducting this Certificate Course.
- 3] In this meeting theme was finalized as Dimensions of Chemistry.
- 4] Time table and syllabus for Certificate Course was finalized.
- 5] Meeting was end with vote of thanks.

Following members were present in the meeting: -

1. Dr. Leena Sarkar [Principal] *Leena*
2. Asst. Prof. Sandhya Patil *Sandhya*
3. Asst. Prof. Harshada Niju *Harshada*
4. Asst. Prof. Savita Kumari *Savita*
5. Dr. Shweta Rathore *Shweta*

[Signature]
Asst. Prof. Sandhya Patil

Convener



Leena
Dr. Leena Sarkar

(Principal & Chairperson)

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Certificate Course in
"DIMENSIONS OF CHEMISTRY" T.Y.B.Sc. Chemistry Sem V
2022-23

Duration-30 Hrs

OBJECTIVES: -

- Learners will gain knowledge about Ferrofluids and their applications.
- Learner will study the chemicals involved in cosmetic products.
- Learner will gain information about fluid industry.
- Learning will study Fascinating organic molecules.
- Learner will gain information about the preparation of water for injection.

OUTCOME: -

- Learner is able to do analysis of Normal Saline.
- Develop an understanding of Ferro fluids.
- Learner has knowledge about materials used for preparation of cosmetic products such as Sunscreen lotion, face serums etc.
- Learners got knowledge about many fascinating organic molecules.



COURSE SYLLABUS

CERTIFICATE COURSE “ DIMENSIONS OF CHEMISTRY” CONTENT- 2022-23

(For T.Y.B.Sc. Chemistry) 20th-25th June 2022

Asst. Prof. Harshada Niju - 8 L

	MODULE-1
1.1.	Ferrofluids: Introduction (1L)
1.2.	What are ferrofluids (2L)
1.3	Chemistry Behind Ferrofluids (2L)
1.4	Applications (2L)
1.5	Assignment (1L)
Asst. Prof. Shweta Rathore - 7 L	
	MODULE-2
2.1	Cosmetic Chemistry 1-introduction, Types (1L)
2.2	Cosmetic chemistry 2- Sunscreen Lotion (1L)
2.3	Cosmetic Chemistry 3-, Retinol (1L)
2.4	Cosmetic Chemistry 4-Vitamin C (1L)



2.5	Cosmetic Chemistry 5-hylaruonic Acid (1L)
2.6	Cosmetic Chemistry 6- Glycolic acid (1L)
2.7	Assignment -(1L)
Asst. Prof. Savita Kumari - 7 L	
	MODULE-3
3.1.	Fascinating organic molecules 1 (1L)
3.2.	Fascinating organic molecules 2 (1L)
3.3	Fascinating organic molecules 3 (1L)
3.4	Fascinating organic molecules 4 (1L)
3.5	Fascinating organic molecules 5 (1L)
3.6	Fascinating organic molecules 6 (1L)
3.7	Assignment (1L)
Asst. Prof. Sandhya Patil 8 L	
	MODULE-4
4.1	Importance of IV fluids(1L)
4.2	Ty IV fluids (1L)



4.3	Requirements for IV fluid industry (1L)
4.4	Profit calculation (1L)
4.5	Water for injection preparation steps (1L)
4.6	Analysis methods for Normal Saline (2L)
4.7	Assignment (1 L)

Timetable

Time	Day					
Day	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9.00 to 10.00 am	(S.R.) Cosmetic Chemistry	(S.P.) IV fluid industry	(S.P.) IV fluid industry	(S.K) Fascinating organic molecules	(H.N.) Ferrofluids	(S.P.) IV fluid industry
10.00 to 11.00 am	(S.K)	(S.P.) IV fluid industry	(S.R.) Cosmetic Chemistry	(S.P.) IV fluid industry	(H.N.) Ferrofluids	(H.N.) Ferrofluids
11.20 to 12.20 pm	(S.P.) IV fluid industry	(S.K) Fascinating organic molecules	(H.N.) Ferrofluids	(H.N.) Ferrofluids	(S.K) Fascinating organic molecules	(S.R.) Cosmetic Chemistry
12.20 to 1.20 pm	(H.N.) Ferrofluids	(S.R.) Cosmetic Chemistry	(S.K) Fascinating organic molecules	(S.R.) Cosmetic Chemistry	(S.R.) Cosmetic Chemistry	(S.K.) Fascinating organic molecules
1.30 to 2.30 p.m.	Fascinating organic molecules	Assignment (S.P)	Assignment (S.R)	Assignment (S.K)	(H.N.) Ferrofluids	Assignment (H.N)

H.N – Mrs. Harshada Niju S.P – Mrs. Sandhya Patil S.K – Miss Savita Kumari S.R – Dr. Shweta Rathore





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T.Y. B.Sc. Certificate Course- (2022-2023)

On

" Dimensions of Chemistry"

Duration: - 30Hrs.

Program: B.Sc.

Course: Certificate Course in Chemistry

Number of Lectures: 30

List of Students Enrolled

Sr. No	Name of student		
		10	Abhinaya Nadar
1	Aditi Chourasia	11	Tanaya Aher
2	Saurabh Rane	12	Sanjana Ghare
3	Sai Panchal	13	Snehal Pawar
4	Anurag Ambonkar	14	Kavita Gond
5	Santosh Patil	15	Vishal Yadav
6	Anjali Gupta	16	Ashish Jagdale
7	Pooja Pawar	17	Pallavi Mane
8	Muskan F.Shaikh	18	Sandeep Varma
9	Shweta Pawar	19	Kavita Gond

Mrs. Sandhya Patil

Convener

Dr. Leena Sarkar

Principal & Chairperson



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ATTENDANCE SHEET T.Y.B.Sc Certificate Course 2022-23

“Dimensions of Chemistry”

Name of Teacher – Asst. Prof. Sandhya Patil						
Name of Student	20/06/22	21/06/22	22/06/22	23/06/22	25/06/22	
Tanaya Aher	P	P	P	P	P	
Shweta Pawar	P	P	P	P	P	
Snehal Pawar	P	P	P	P	A	
Abhinaya Nadar	P	P	P	P	P	
Anjali Gupta	P	A	P	P	A	
Renuka Chaudhari	P	P	A	P	A	
Kavita Gond	P	P	P	P	P	
Pooja Pawar	P	P	P	P	P	
Sai Panchal	P	P	P	P	P	
Saurabh Rane	P	P	P	P	P	
Aditi Chaurasia	P	P	P	P	A	
Pallavi Mane	A	P	A	A	P	
Ritesh Kirdat	A	P	P	A	A	
Sandeep Verma	A	P	P	P	A	
Santosh Patil	A	P	P	P	A	
Anurag Ambonkar	P	P	P	P	P	
Muskan F. Shaikh	A	P	P	A	A	
Vishal Yadav	A	P	P	P	A	
Ashish Jagdale	A	A	P	P	A	
Sanjana Ghare	A	A	P	P	P	
Soham Narankar	A	A	A	P	A	
Name of Teacher – Asst. Harshada Niju						
Name of Student	20/06/22	22/06/22	23/06/22	24/06/22	25/06/22	
Tanaya Aher	P	P	P	P	P	
Shweta Pawar	P	P	P	P	P	
Snehal Pawar	P	P	P	P	A	
Abhinaya Nadar	P	P	P	P	P	
Anjali Gupta	P	P	P	P	A	





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Certificate Course in
“DIMENSIONS OF CHEMISTRY”
T.Y.B.Sc. Chemistry Sem V 2022-23

Summary Report

Duration-30 Hrs

Certificate Course was conducted for T.Y.B.Sc (Chemistry) students from 20th June 2022 to 25th June 2022 on the Topic “ Dimensions of Chemistry”

Outcome 1

- Learner is able to do the analysis of Normal Saline-

The outcome achieved – As the students came to know the types of saline their importance, and methods of industrial preparation. They had practical of use of a flame photometer in Third year where they understood practical use of the instrument for the analysis of Saline.

Outcome 2

- Develop an understanding of Ferrofluids.

Outcome Achieved – Students got knowledge of Ferrofluids and their applications.

Outcome 3

- Learner has knowledge about materials used for the preparation of cosmetic products such as Sunscreen lotion, face serums etc.

Outcome Achieved- Learner could understand the analysis of cosmetics in Theory syllabus of Analytical Chemistry to more extent as they already had basic knowledge about the requirement, content, and preparation of cosmetic products.





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- Learners got knowledge about many fascinating organic molecules
The outcome achieved- Students developed an interest in Chemistry as they understood the details of many fascinating organic molecules.
The assessment was done through 10 mks test taken for each module .
After Completion of the Course and the Test record was as follows

Sr. No	Name of student	Test by Mrs. Harshada Niju	Test by Mrs. Sandhya Patil	Test by Miss Savita Kumar	Test by Dr. Shweta Rathore
		Total Marks 10	Total Marks 10	Total Marks 10	Total Marks 10
1	Aditi Chourasia	8	8	9	8
2	Saurabh Rane	7	7	7	6
3	Sai Panchal	6	7	6	7
4	Anurag Ambonkar	8	8	9	9
5	Santosh Patil	6	7	6	7
6	Anjali Gupta	5	6	6	6
7	Pooja Pawar				7
8	Muskan F.Shaikh	4	5	5	5
9	Shweta Pawar	7	8	8	8
10	Abhinaya Nadar	9	9	8	9
11	Tanaya Aher	9	9	8	9






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12	Sanjana Ghare	6	7	6	7
13	Snehal Pawar	5	6	7	6
14	Kavita Gond	5	6	5	6
15	Vishal Yadav	5	4	4	6
16	Ashish Jagdale	5	6	5	5
17	Pallavi Mane	8	7	8	8
18	Sandeep Varma	7	6	7	5
19	Kavita Gond	5	6	5	7


Feed back was collected through the link

https://docs.google.com/forms/d/e/1FAIpQLSc9mYZaPA829HV98SoKwTfPhQ8szZt7b8Ns48VYwW4HZHTQQ/viewform?usp=sf_link

in which students 83.3 % of students responded as they gained new information, 88.8 % of students responded as the course was beneficial as it clarified the things that they had learnt and it motivated them to think differently.


 Mrs. Sandhya Patil
 Convener




 Dr. Leena Sarkar
 Principal & Chairperson

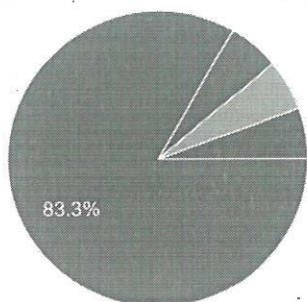
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Feedback Analysis of 2022-23 Certificate Course for T.Y. B.Sc (Chemistry)

"Dimensions of Chemistry"

1. What did you gain from the sessions?

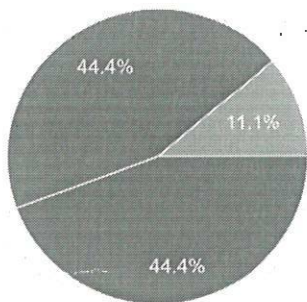
18 responses



- New Information
- Answers to my question
- Resource Material
- Ideas I can try immediately

2. What benefits have you obtained from sessions?

18 responses



- Motivated to think differently
- Clarified things that had been learned
- Stimulated interest to learn more
- Nothing in particular

3. Your suggestion for next certificate course 18 responses

No

NA

Good

Sure



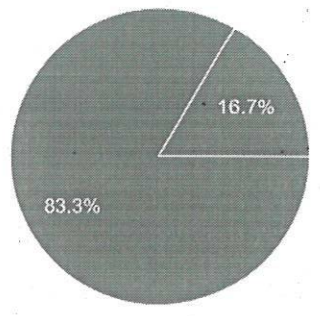
These offline sessions r perfect

Clarified things that been learn



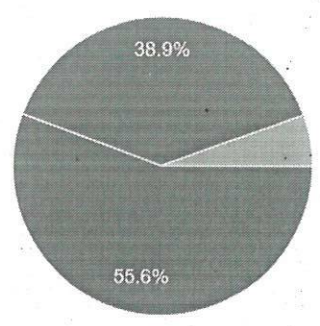
Nothing
Yes
should be conducted in same way
nothing
Nothing

4. The lecture sequence was well planned
18 responses



- Agree
- Neutral
- Disagree

5. Please give overall rating of the course
18 responses



- Excellent
- Very good
- Good
- Fair
- Poor






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Model Certificate


JNAN VIKAS MANDAL'S DEGREE COLLEGE
 NAAC Re -Accredited 'A' Grade (CGPA -3.33)
 Plot No. 9, Sector -19, Airoli, Navi Mumbai, Maharashtra -400 708




Date: 27/06/2022

CERTIFICATE


This is to certify that Mr./Ms. of Class
 T.Y.B.Sc (Chemistry) has successfully completed
Certificate Course on 'Dimensions of Chemistry'
 organized by Department of Chemistry, J.V.M.'s Degree College
 from 20th June 2022 to 25th June 2022.


Asst. Prof. Sandhya Patil
 Course Co-ordinator


Dr. Leena Sarkar
 Principal


Mrs. Sandhya Patil
 Convener




Dr. Leena Sarkar
 Principal & Chairperson
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