



Seval Education Society's

Seval Mahila Mahavidyalaya

NAAC RE-REACCREDITED WITH 'A' GRADE

Sakkardara Square, Umrer Road, Nagpur - 440 024 (M.S.)

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E-mail: sevamahilamv@gmail.com; smm_college@yahoo.co.in

Website: <https://sevalmahilamahavidyalaya.ac.in>

CERTIFICATE COURSE

“Preparation of Liquid Soap and Detergents Powder”

(Duration - Three Months)

Course Co-ordinators

Prof. (Mrs.) M. P. Patil

Prof. (Mrs.) P. P. Chahande

Department of Chemistry,
Seval Mahila Mahavidyalaya,
Nagpur

2023 – 2024

Course Title : Preparation of liquid soap and detergent powder

Brief Description of the Course and Objectives:



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Soaps and detergents are very essential for personal hygiene. We use them in order to wash our hands, our faces and our bodies but also to wash our dishes, our clothes and all the surfaces we come in contact with. Looking towards need of our, we have decided to conduct certificate course on," Preparation of liquid soap and detergent powder."

Preparation of liquid soap and detergent powder certificate course was organized by faculties of Chemistry Department for students to increase skills and knowledge through work or other experiences. It can help them to gain recognition for their skills and knowledge and to improve their career prospects.

Thirty three students were registered for the certificate course. Theory and practicals were conducted as per syllabus given. In theory preparation of various types of liquid soaps and detergent powders were discussed and notes were provided to students. Neem leaves, Aloe Vera, Lemon are used for preparation of liquid soap. Students were very happy after preparation of liquid soap.

Theory examination and practical examination were carried out in the month of April. Certificates were distributed to students. Certificate course was conducted successfully.

Objectives:

Undergraduate Department of Chemistry, Sevadal Mahila Mahavidyalaya offers 46 hours certificate course," Preparation of liquid soap and detergent powder " The certificate course includes the preparation of Detergent powder and liquid soap. Soap and detergent is our daily need as far as hygiene is concerned. In order to learn about the preparation of soap this course is beneficial. It is the necessary to learn the importance of soap as it is a hygiene product. This certificate course is the need of the hour and the students should know the different types of detergent and liquid soaps available in the market and also it is necessary to make them familiarize with the ingredients needed to manufacture detergent and soaps . Looking towards the high price of the chemicals it is very necessary to teach the students to make soaps with minimum equipments and tools and to inculcate the idea of entrepreneurship in them.



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Course Outline:

- 1) Course will include theory and Practical.
- 2) Selection of raw material.
- 3) Preparation of detergent and liquid soap.
- 4) Determination of physical properties of detergent and liquid soap.

Syllabus :

Introduction of oils and fats and their sources, structure and composition of oils and fats, glycerides and fatty acids, classification, Natural sources of oils and fats. Types of liquid soap, Moisturizing soap, Antibacterial soap, Natural soap, Chemical free soap.

Introduction to synthetic detergents, Types of detergents, classification of detergents (anionic, cationic, nonionic, amphoteric) raw material for soaps and detergents, general principles of soap making, saponification reaction. Detergent Powders- Introduction, Formulation Requirements, Production of detergent powders by dry mixing. Applications of detergents. Preparation of liquid soap by using natural ingredients like Haldi, Neem, Multani Mitti and Aloe vera

Teaching Methodology:

1. Chalk and board method
2. Power point presentation
3. Preparation of detergent and soap
4. Analysis of prepared material
5. Introduction and explanation of various instruments for synthesis and characterization of detergents.

Assessment of Students :

Assessment and evaluation – Theory (60 marks) and Practical Marks (30 marks) and Internal Assessment(10). After completion of course the successful students will be awarded certificate.

Assessment of students will be done through theoretical assignments/seminars.



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Duration : Three months

Total Hrs: 46 Hrs.

- Theory - 30 hrs.
- Practicals - 16 hrs.

Time : Practical: 11.00 am. to 12.30 pm

Theory Classes: 3.00 pm to 4.00 pm on Monday and Tuesday

After completion of the course successful candidates will be awarded Certificates.

Learning Outcomes:

- Student will get some additional knowledge of preparation of liquid soap and detergent.
- It will increase creativity amongst students.
- It will help for the development of another source of income to students.
- It will help to start their own firms.
- It will help student to generate employment for others.



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Place for Higher Learning and Research (Research Academy)

Sakkardara Square, Umred Road, Nagpur-440024

Date- 04.12.2023

NOTICE

All the members of the Department of Chemistry are hereby informed that the meeting regarding the Certificate Course in Chemistry has been scheduled on 11th Dec. 2023 at 11.30am at the Hon'ble Principal's Chamber.

Hon'ble Principal Sir will chair the meeting in presence of A.P. Lambat, NAAC Coordinator.

Agenda of the meeting:

- 1) To commence three Certificate Courses in Chemistry Department for UG and PG students.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the chair.

Copy to:

Dr. A. P. Lambat, NAAC Coordinator

Mrs. A. S. Mahakalkar

Prof. A. S. Mahakalkar

Head,

Department of Chemistry

Sevadal Mahila Mahavidyalaya,

Nagpur



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Off. Principal

Sevadal Mahila Mahavidyalaya
Nagpur.

Sevadal Mahila Mahavidyalaya
Place for Higher Learning and Research (Research Academy)
Sakkardara Square, Umred Road, Nagpur-440024

Minutes of the Meeting dated on 11.12.2023

Certificate Courses in Department of Chemistry

The meeting regarding the Certificate Courses run by Department of Chemistry was held on 11th Dec. 2023 at 11.30 am in the Hon'ble Principal's Chamber. Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To commence three Certificate Courses in Chemistry Department for UG and PG students.
- 2) To frame the syllabus of the course.
- 3) Any other matter with the permission of the chair.

Following Members were present.

- | | |
|-----------------------------------|-------------------------------|
| 1) Prof. Pravin Charde, Principal | Chairman |
| 2) Dr. A. P. Lambat | IQAC Coodinator |
| 3) Prof. A. S. Mahakalkar | Head, Department of Chemistry |
| 4) Prof. N. S. Dhoble | Member |
| 5) Prof. M. P. Patil | Member |
| 6) Dr. Mrs. P. P. Chahande | Member |
| 7) Dr. Mrs. A. M. Duragkar | Member |
| 8) Dr. Mrs. P. P. Morey | Member |

Prof. A.S. Mahakalkar, Head, Department of Chemistry acted as secretary in the meeting. Head of Department welcomed the Chairperson, Hon'ble Principal, other members and called the meeting in order with permission of chairperson, read out agenda of the meeting and subsequently discussed the matter.



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Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.

1) **Item No. 1:** To commence three certificate courses in Chemistry Department.

Resolution : Unanimously it was decided to commence the Certificate Course in Department of Chemistry from the session 2023-24 with course name and coordinators as follows-

A) "Synthesis and Characterization of Inorganic Phosphors"

Coordinator: Prof Mrs. N. S. Dhoble **Member:** Dr. Mrs. A. M. Duragkar

B) "Preparation of Liquid Soap and Detergent Powder".

Coordinator: Prof. Mrs. M. P. Patil **Member:** Dr. P. P. Chahande

C) "Biodegradation of Kitchen Waste"




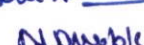
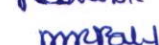
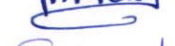
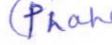

Coordinator: Dr Mrs A. S. Mahakalkar Member : Dr. P. P. Morey

2) **Item No. 2:** To frame the syllabus of the course.

Resolution: Hon'ble Principal expressed his views regarding the framing of course syllabus. Coordinators and members were asked to prepare syllabus of the respective Certificate Courses.

3) **Item No. 3:** Any other matter with the permission of Chair.

Resolution: As there was no other matter to discuss, the head of department of chemistry sum up the meeting by expressing thanks for everyone's gracious attendance.

Name	Signature
1. Prof. Pravin Charde, Principal	
2. Dr. A. P. Lambat	
3. Prof. A. S. Mahakalkar	 A. S. Mahakalkar
4. Prof. N. S. Dhoble	 N. S. Dhoble
5. Prof. M. P. Patil	 M. P. Patil
6. Dr. Mrs. P. P. Chahande	 P. P. Chahande
7. Dr. Mrs. A. M. Duragkar	 A. M. Duragkar
8. Dr. Mrs. P. P. Morey	 P. P. Morey



N. S. Dhoble

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Place for Higher Learning and Research (Research Academy)

Sakkardara Square, Umred Road, Nagpur-440024

Date- 15.12.2023

NOTICE

All the UG students of science faculty are hereby informed that college has started various certificate courses. One of them is certificate course in "Preparation of Liquid Soap and Detergent Powder" run by Department of Chemistry.

Interested students should contact following teachers for admission on or before 30th Dec 2023.

- 1) Prof. Mrs. M. P. Patil
- 2) Prof. Mrs. P. P. Chahande

Prof. Pravin Charde

Principal

Sevadal Mahila Mahavidyalaya,

Nagpur



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**List of students enrolled for the certificate course of
“Preparation of liquid soap and detergent powder”**

S.N.	Name of Student	Class
1	Ms. Aishwarya Gajbhiye	B.Sc Sem VI (CBZ)
2	Ms. Anisha Mendhe	B.Sc. Sem VI
3	Ms. Damini Bhure	B.Sc. Sem VI
4	Ms. Karishma Dhurve	B.Sc. Sem VI
5	Ms. Khushi Nagpure	B.Sc. Sem VI
6	Ms. Mishba Sheikh	B.Sc. Sem VI
7	Ms. Rupali Nanwate	B.Sc. Sem VI
8	Ms. Shaileja Taratkar	B.Sc. Sem VI
9	Ms. Shravani Kamdi	B.Sc. Sem VI
10	Ms. Vibhavari Padhye	B.Sc. Sem VI
11	Ms. Vishakha Bajanghate	B.Sc. Sem VI
12	Ms. Isha Dadmal	B.Sc. Sem VI
13	Ms. Nikita Shirke	B.Sc. Sem VI
14	Ms. Payal Umale	B.Sc. Sem VI
15	Ms. Monali Ajbale	B.Sc. Sem VI
16	Ms. Rutuja Manapure	B.Sc. Sem VI
17	Ms. Shoba Zure	B.Sc. Sem VI
18	Ms. Tanushree Thawkar	B.Sc. Sem VI
19	Ms. Vedanti Chanchuar	B.Sc. Sem VI
20	Ms. Zufi Fatema	B.Sc. Sem VI
21	Ms. Javeria Fatema	B.Sc. Sem VI
22	Ms. Kalyani Tijare	B.Sc. Sem VI
23	Ms. Ashlesha Vairagade	B.Sc. Sem VI
24	Ms. Dimple Shrikhandkar	B.Sc. Sem VI
25	Ms. Sakshi Belsare	B.Sc. Sem VI
26	Ms. Shahareen Parveen	B.Sc. Sem VI
27	Ms. Shriya Kandge	B.Sc. Sem VI
28	Ms. Swati chavan	B.Sc. Sem VI
29	Ms. Tanu Wandhare	B.Sc. Sem VI
30	Ms. Tisha Vaidya	B.Sc. Sem VI
31	Ms. Vedanti Gadekar	B.Sc. Sem VI
32	Ms. Rashmi Gautam	B.Sc. Sem VI
33	Ms. Sejal Shinde	B.Sc. Sem VI

Chahande
Dr. Mrs. P .P. Chahande
(Member)

Prof. Mrs. M.P. Patil
(Course Coordinator)



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Place for Higher Learning and Research (Research Academy)

Sakkardara Square, Umred Road, Nagpur-440024

Date- 01.04.2024

NOTICE

All the members of the Department of Chemistry are hereby informed that the meeting regarding the Certificate Course in Chemistry has been scheduled on 5th April 2024 at 11.30 am at the hon'ble Principal's Chamber.

Hon'ble Principal madam will chair the meeting in presence of A.P. Lambat, NAAC Coordinator.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the completion of certificate course syllabus and to decide examination schedule of the course.
- 3) Any other matter with the permission of the chair.

Copy to:

Dr. A. P. Lambat, NAAC Coordinator

Ms. A. S. Mahakalkar

Prof. A. S. Mahakalkar

Head,

Department of Chemistry

Sevadal Mahila Mahavidyalaya,

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Place for Higher Learning and Research (Research Academy)
Sakkardara Square, Umred Road, Nagpur-440024

Minutes of the Meeting dated on 05.04.2024
Certificate Courses in Department of Chemistry

The meeting regarding the Certificate Courses run by Department of Chemistry was held on 5th April 2024 at 11.30 am in the Hon'ble Principal's Chamber. Hon'ble Principal madam presided over the meeting.

Agenda of the meeting:

- 1) To confirm the minutes of the last meeting.
- 2) To review the completion of certificate course syllabus and to decide examination schedule the course.
- 3) Any other matter with the permission of the chair.

Following Members were present.

- | | |
|----------------------------|-------------------------------|
| 1) Prof. N. S. Dhoble | Member |
| 2) Dr. A. P. Lambat | IQAC Coodinator |
| 3) Prof. A. S. Mahakalkar | Head, Department of Chemistry |
| 4) Prof. M. P. Patil | Member |
| 5) Dr. Mrs. P. P. Chahande | Member |
| 6) Dr. Mrs. A. M. Duragkar | Member |
| 7) Dr. Mrs. P. P. Morey | Member |

Prof. A.S. Mahakalkar , Head, Department of Chemistry acted as secretary in the meeting. Head of Department welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with permission of chairperson, read out agenda of the meeting and subsequently discussed the matter.



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1) **Item No. 1:** To confirm the minutes of the last meeting.

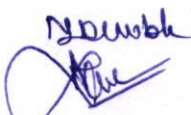


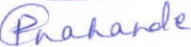


Resolution : The minutes of the last meeting held on 11th Dec 2023 were read by the Head of Department of Chemistry and subsequently the minutes were unanimously approved.

2) **Item No. 2:** To review the completion of certificate course syllabus and to decide examination schedule of the course.

Resolution: Hon'ble Principal madam overviewed the course completion of respective certificate courses run by department of chemistry and also guided about the examination pattern and schedule of examination to be commenced in this month.

4) **Item No. 3:** Any other matter with the permission of Chair.

Resolution: As there was no other matter to discuss, the head of department of chemistry sum up the meeting by expressing thanks for everyone's gracious attendance.

Name	Signature
1. Prof. N. S.Dhoble	
2. Dr. A. P. Lambat	
3. Prof. A. S. Mahakalkar	Mrs. A. S. Mahakalkar
4. Prof. M. P. Patil	
5. Dr. Mrs. P. P. Chahande	
6. Dr. Mrs. A. M. Duragkar	
7. Dr. Mrs. P. P. Morey	




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Place for Higher Learning and Research (Research Academy)

Sakkardara Square, Umred Road, Nagpur-440024

Date- 15.04.2024

NOTICE

All the students enrolled for Certificate Course "Preparation of Liquid Soap and Detergent Powder" are hereby informed that the timetable of theory and practical examination is as follows-

Date	Time
25.04.2024 Theory	11.00am- 2.00 pm
29.04. 2024 Practical	11.00am -2.00pm

Take note of the same.

P. Chahande

Dr. Mrs. P. P. Chahande

Member,

Certificate Course

Sevadal Mahila Mahavidyalaya,

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M. S. Chahande

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Note: All questions are compulsory.

Q 1) Objective questions

(1 x 25=25)

1. Soap is a
 - a) Reducing agent
 - b) Cleansing agent
 - c) Oxidising agent
 - d) None
2. Soap is used for the purpose of
 - a) Washing
 - b) Cleaning
 - c) Moulding
 - d) Both a) & b)
3. Soaps are salts of
 - a) Sodium
 - b) Magnesium
 - c) Calcium
 - d) None
4. Soap reduces ----- of water.
 - a) Density
 - b) Viscosity
 - c) Surface tension.
 - d) None
5. Green soap is used for
 - a) Hair problem
 - b) Skin problem
 - c) Both hair & skin
 - d) None
6. An alkaline compound used for cleaning or stripping point
 - a) Toilet soap
 - b) Yellow soap
 - c) Aluminium soap
 - d) Sugar soap
7. Which soap is used for cleaning leather
 - a) Soft soap
 - b) Saddle soap
 - c) Green soap
 - d) None
8. Phenol containing soap is called as
 - a) Yellow soap
 - b) Fragrant soap
 - c) Carbolic soap
 - d) None



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- a) Calcium salt of stearic acid
 - b) Calcium salt of heptadecanesulphonic acid
 - c) Magnesium salt of sulphonic acid
 - d) Potassium salt of sulphonic acid
19. Which of the following is not used in the preparation of soap
- a) Palmitic acid
 - b) Stearic acid
 - c) Lauric acid
 - d) Benzoic acid
20. Soap is
- a) Colidal electrolyte
 - b) Colidal Nonelectrolyte
 - c) Areosol
 - d) None
21. Fat is
- a) Fatty acid
 - b) Soap
 - c) Glycerol
 - d) Ester
22. The chemical name of washing soda
- a) Sodium carbonate
 - b) Sodium bicarbonate
 - c) Sodium chloride
 - d) Sodium sulphate
23. Soaps are the sodium salts of which of the following
- a) Mineral acids
 - b) Fatty acids
 - c) Lactic acids
 - d) Carbonic acid
24. The process of manufacturing soap is called as
- a) Ion exchange
 - b) Sulphonaton
 - c) Saponiphication
 - d) Distillation
25. Common salt means
- a) Potassium chloride
 - b) Sodium chloride
 - c) Magnesium chloride
 - d) Aluminium chloride
- Q.2) What are the pros and cons of power detergent (10)
- Q.3) What are soaps and detergent (10)
- Q.4) Give the preparaiton of liquid soap (10)
- Q.5) Write a short note on saponification (05)



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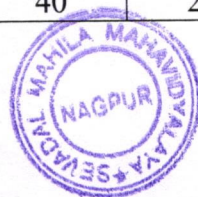
Sevadal Mahila Mahavidyalaya, Nagpur
Certificate Course Examination 2023-2024

Name of Exam Centre: **Sevadal Mahila Mahavidyalaya, Nagpur**

Title of the Certificate Course: **Preparation of Liquid Soap and Detergent Powder**

Summary of Marks

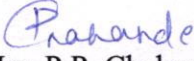
S.N.	Name of Student	Class	Theory (60 marks)	Practical (30 Marks)	Internal (10 marks)	Total (100)
1	Ms. Aishwarya Gajbhiye	B.Sc Sem VI (CBZ)	50	30	10	89
2	Ms. Anisha Mendhe	B.Sc. Sem VI	42	29	09	80
3	Ms. Damini Bhure	B.Sc. Sem VI	43	28	08	79
4	Ms. Karishma Dhurve	B.Sc. Sem VI	41	27	09	77
5	Ms. Khushi Nagpure	B.Sc. Sem VI	40	27	08	75
6	Ms. Mishba Sheikh	B.Sc. Sem VI	43	26	09	78
7	Ms. Rupali Nanwate	B.Sc. Sem VI	45	28	09	82
8	Ms. Shaileja Taratkar	B.Sc. Sem VI	40	25	09	74
9	Ms. Shravani Kamdi	B.Sc. Sem VI	40	28	08	76
10	Ms. Vibhavari Padhye	B.Sc. Sem VI	41	26	08	75
11	Ms. Vishakha Bajanghate	B.Sc. Sem VI	44	27	08	79
12	Ms. Isha Dadmal	B.Sc. Sem VI	46	27	09	82
13	Ms. Nikita Shirke	B.Sc. Sem VI	47	29	09	85
14	Ms. Payal Umale	B.Sc. Sem VI	43	28	08	79
15	Ms. Monali Ajbale	B.Sc. Sem VI	42	26	08	76
16	Ms. Rutuja Manapure	B.Sc. Sem VI	48	28	08	84
17	Ms. Shoba Zure	B.Sc. Sem VI	50	30	09	89
18	Ms. Tanushree Thawkar	B.Sc. Sem VI	46	26	09	81
19	Ms. Vedanti Chanchuwar	B.Sc. Sem VI	49	29	09	87
20	Ms. Zufi Fatema	B.Sc. Sem VI	46	25	08	79
21	Ms. Javeria Fatema	B.Sc. Sem VI	41	24	08	73
22	Ms. Kalyani Tijare	B.Sc. Sem VI	43	26	09	78
23	Ms. Ashlesha Vairagade	B.Sc. Sem VI	50	28	08	86
24	Ms. Dimple Shrikhandkar	B.Sc. Sem VI	49	28	09	86
25	Ms. Sakshi Belsare	B.Sc. Sem VI	48	29	08	85
26	Ms. Shahareen Parveen	B.Sc. Sem VI	44	25	09	78
27	Ms. Shriya Kandge	B.Sc. Sem VI	45	26	08	79
28	Ms. Swati chavan	B.Sc. Sem VI	43	29	09	81
29	Ms. Tanu Wandhare	B.Sc. Sem VI	49	28	09	86
30	Ms. Tisha Vaidya	B.Sc. Sem VI	48	29	09	86
31	Ms. Vedanti Gadekar	B.Sc. Sem VI	49	29	08	86
32	Ms. Rashmi Gautam	B.Sc. Sem VI	47	27	08	82
33	Ms. Sejal Shinde	B.Sc. Sem VI	40	20	09	69

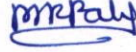


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Total No. of Students Enrolled = 33
No. of Students Absent = 00
Total No. of Students Appeared = 33


Dr. Mrs. P.P. Chahande
(Member)


Prof. Mrs. M. P. Patil
(Course Coordinator)

Course Co-ordinators:

- 1 Dr. (Mrs.) M. P. Patil, Professor, Sevadal Mahila Mahavidyalaya, Nagpur.
- 2 Dr. (Mrs.) P. P. Chahande, Professor, Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur.





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Place for Higher Learning and Research (Research Academy)
Sakkardara Square, Umrer Road, Nagpur-440024

Certificate of Completion

This certificate is awarded to

Ms. Payal Umale

she has successfully completed the Certificate Course in
"*Preparation of Liquid Soap and Detergent Powder*",
conducted by the Department of Chemistry.

Date :30/04/2024

MP
Prof. (Mrs.) M. P. Patil
Course Coordinator

Chahande
Dr. (Mrs.) P. P. Chahande
Course Coordinator

Nirupama
Prof. (Mrs.) Nirupama S. Dhoble
Off. Principal
Sevalal Mahila Mahavidyalaya, Nagpur



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