



SEVADAL MAHILA MAHAVIDYALAYA NAAC RE-REACCREDITED WITH 'A' GRADE

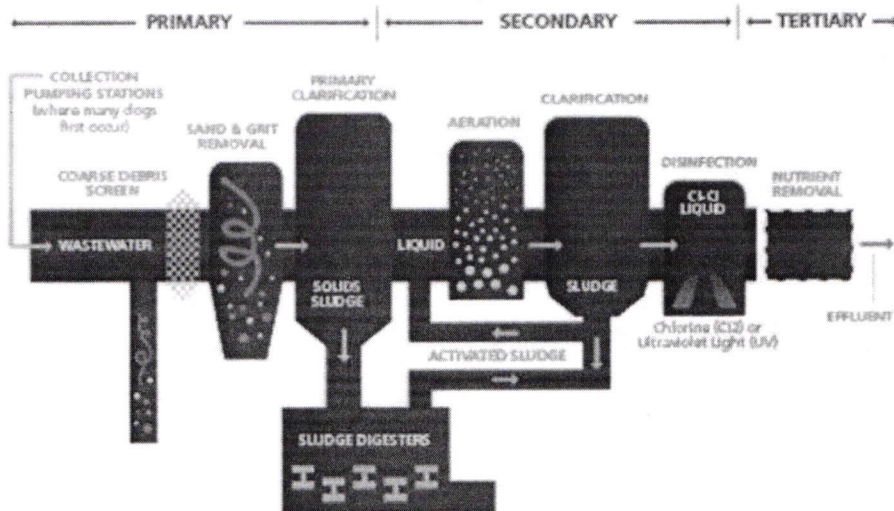
Place for Higher Learning & Research (Research Academy)

Sakkardara Square, Umrer Road, Nagpur-440024

REPORT

ON

Certificate Course (Sewage Treatment Process)



SESSION 2023-24

Nasrullah
Off. Principal
Sevadal Mahila Mahavidyalaya
Nagpur.



Report on Certificate Course (Sewage Treatment Process): (2023-24)

Certificate Courses are a great value addition to the affiliating university curriculum. They widen the area of curriculum and strengthen the content in the curriculum. The Institution duly recognizes the key role of certificate courses in enhancing the skills of the UG students. Therefore, the College offers certificate courses through various departments to cater the needs of the students. A set of syllabus is adopted for each course with specified objectives and outcomes, and it is taught by a qualified faculty member/trainer.

During the course, one formative assessment theory, practical test and assignment work was conducted to monitor the student progress and provide feedback for improvement. A summative assessment test is conducted for a total of 100 marks, with 40 marks as the qualifying mark. Certificates are distributed to the students who successfully completed the course and met the qualifying marks. In the academic year 2023-24, the sixteen students enrolled for this course. This offline program was offered on every Wednesday and Thursday at 2.00 pm to 3.00 pm from October 25, 2023 for one hour.

Certificate course on Sewage Treatment Process started on 25 October 2023 with a target to give knowledge about basic laboratory management to science students and sewage treatment process and designing plant by practical and theoretical method. Sixteen students from B.Sc. II joined and all students completed the course successfully. The course covered basic treatment techniques like Preliminary, Secondary and Tertiary Treatment, sampling techniques, safety and precautionary measures in laboratory. Students showed interest in knowing above course.



Learning outcomes:

- Students understand the basic concepts of sewage samples and sources.
- Students were able to prepare reagents and solution.
- Students gained knowledge about treatment and STP Design.
- Students learned about different types of analysis.

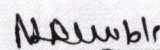
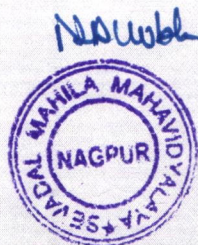
Course Outcomes:

- Students understand the basic concepts of laboratory.
- Students can analyse water and sewage samples.
- Students learned different instrumental analytical methods.
- Students can do scientific calculations.

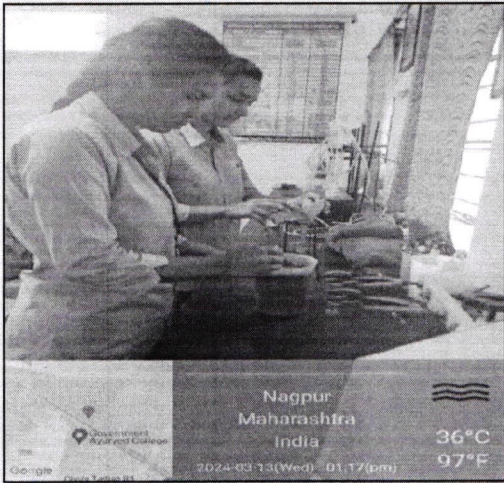
Course covered the concepts such as water quality parameters, water sampling and analysis, site selection, collection of sewage sample and analysis. Finally the course succeeds in making students able to analyse and assess water and sewage which is essential in various industries for maintain water resource by recycling process through STP. Students learned different instrumental analytical methods. Students can do scientific calculations. It is useful to every science to learn about the analysis of water and sewage which is useful in applying industrial unit. Course Coordinator targeted to give basic designing and plant knowledge to join and completed the course is benefitted to open job opportunity for students to work in industrial sector and earn.

Date: 29-04-2024

Dr. Mrs. Bharati S. Tapase
Course Coordinator



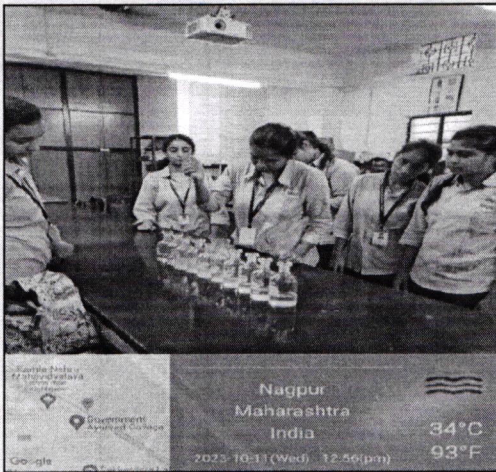
Prof. N.S. Dhoble
Officiating Principal
S. M. Mahavidyalaya, Nagpur.



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India
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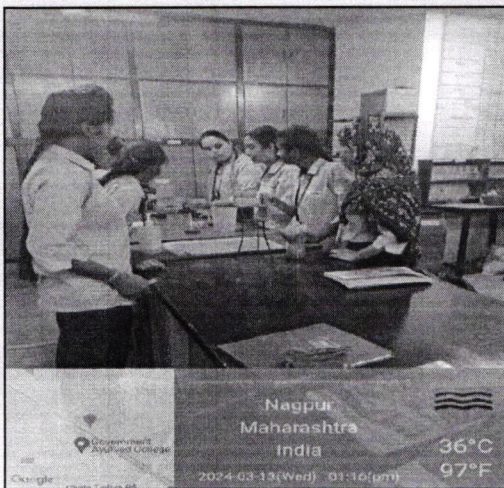
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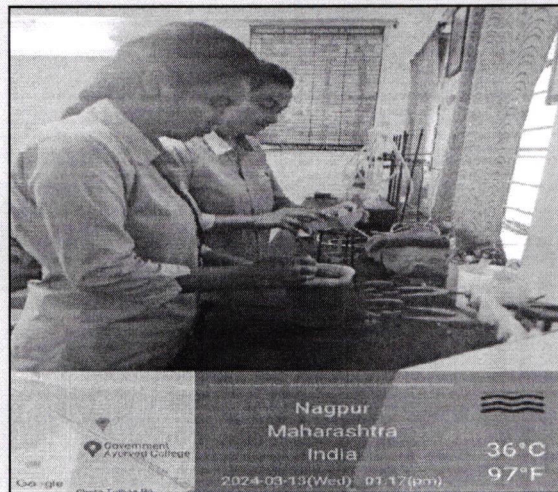
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2024-03-13 (Wed) 01:16 (pm)



Nagpur
Maharashtra
India
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2024-03-13 (Wed) 01:17 (pm)

Analysing sewage sample through various practical's

Nalobal
SEWAGE TREATMENT PLANT
MAHILA MAHAVIDYALAYA
NAGPUR

Sevadal Mahila Mahavidyalaya

Place for Higher Learning & Research (Research Academy)
Sakkaradara Square, Umrer Road, Nagpur-440024

Notice

Date: 26-10-2023

Environmental Science Under Graduate Department of Sevadal Mahila Mahavidyalaya, Nagpur is organizing three months offline certificate course on 'Sewage Treatment Process' starting in the month of **October 2023**. the course will be held on Wednesday and Thursday from 2.0 PM to 3.0 PM. No application fees for the college students. Interested students are enrolling their name for the above course should contact Assistant Professor Dr. Mrs. B.S.Tapase, Coordinator of the Certificate Course.

B.S. Tapase

Coordinator
Dr. Mrs. B.S.Tapase



Pravin Charde

Prof. Pravin Charde
Principal
Sevadal Mahila Mahavidyalaya, Nagpur.

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SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher learning & Research- (Research Academy)
Sakkardara Chowk Umrtr Road' Nagpur-440024

Date – 22/10/2023

NOTICE

The members of the Science faculty are hereby informed that the meeting regarding the Certificate Course has been scheduled on 22nd October 2023 at 11.00 am at the Hon'ble Principal's Chamber'

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

Agenda of the meeting :

- 1) To Review progress of framing syllabus of Certificate course.
- 2) Any other matter with the permission of the chair.



AS Tapase
Dr. Bharati S. Tapase
Assistant Professor
Course Coordinator

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher learning & Research- (Research Academy)
Sakkardara Chowk Umrtr Road' Nagpur-440024

Minutes of the Meeting dated 26/10/2023 . Certificate Course in "Sewage Treatment Process"

The meeting regarding the Certificate Course in ' held on 25/10/2023 at 11.00 am in the Hon'ble Principal's Chamber' Hon'ble Principal Sir presided over the meeting.

Agenda of the meeting:

- 1) To Review progress of framing syllabus of Sewage Treatment Process.
- 2) Any other matter with the permission of the chair.

Following Members were Present:

- | | |
|-----------------------------------|--------------------|
| 1) Dr. Pravin Charde, | Chairman |
| 2) Associate. Prof. Ashish Lambat | IQAC Coordinator |
| 3) Asst. Prof Dr. B.S.Tapase | Course Coordinator |

Dr. Mrs. Bharati S. Tapase, Course Coordinator acted as secretary in the meeting' The Coordinator welcomed the Chairperson, Hon'ble Principal and other members and called the meeting in order with the permission of chairperson. The coordinator read out the agenda of the meeting and subsequently discussed the matter.

Item No.1: To review the progress of framing the syllabus of 'Sewage Treatment Process'. Resolution: course coordinator tabled the newly framed syllabus of certificate course in the meeting' after through discussion it was approved unanimously.

Item No.2: Any other matter with the permission of Chair'

Resolution: Hon'ble Principal directed the Coordinator to enrolled students name for the certificate course after 'Diwali Vacation'.

As there was no other matter to discuss, the meeting was concluded with vote of thanks by the coordinator of the course.

Name

Signature

- 1) Hon'ble Dr. Pravin Charde
- 2) Dr. A. P. Lambat
- 3) Dr. Bharati S. Tapase



B.S. Tapase

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SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher learning & Research (Research Academy)
Sakkardara Chowk, Umrer Road, Nagpur-440024
Ph. No.- 0712-2705037, 0712-2751344 email- sevamahilamv@gmail.com

To,
The Course Coordinator,
Sevadal Mahila Mahavidyalaya,
Nagpur.



CERTIFICATE COURSE IN SEWAGE TREATMENT PROCESS

(Session: 2023-24)

Name of the Candidate: JAYEE . S. JAIN
Date of Birth: 22.06.2004
Permanent Address: house no. 450. soham kothi mood
near sare guruji school diwan woda
mahal, NAGPUR
Mobile Number: 8329665367
Email: jayeejain7@gmail.com
Faculty: SCIENCE Class: BSC IIInd year
Subjects offered: CHEMISTRY, BOTANY, ENVIRONMENTAL
SCIENCE

Jayee
Signature of Candidate

BG Tapase
Asst. Prof. Dr. Bharati Tapase
Course Coordinator



Nauoble
Prof. Mrs. N.S. Dhoble
Officiating Principal
Sevadal Mahila Mahavidyalaya,
Nagpur

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Ph. No.- 0712-2705037, 0712-2751344 email- sevamahilamv@gmail.com



To,
The Course Coordinator,
Sevadal Mahila Mahavidyalaya,
Nagpur.

CERTIFICATE COURSE IN SEWAGE TREATMENT PROCESS

(Session: 2023-24)

Name of the Candidate:

Shivani Shankar Lakade

Date of Birth:

12/10/2004

Permanent Address:

Plot No. 20, Vaishnodevi Nagar.
Wathoda Ring Road, Nagpur.

Mobile Number:

8329890851

Email:

lakadeshivani84@gmail.com

Faculty:

Science Class: B.Sc II year

Subjects offered:

Chemistry, Botany, Environmental Science

Shivani Lakade

Signature of Candidate

B. Tapase
Asst. Prof. Dr. Bharati Tapase
Course Coordinator



N. Dhoble
Prof. Mrs. N.S. Dhoble
Officiating Principal
Sevadal Mahila Mahavidyalaya,
Nagpur

**CERTIFICATE COURSE
ON
SEWAGE TREATMENT PROCESS**

List of students	EMAIL -ID	Ph. Number
1.Jayee S. Jain	jayeejain7@gmail.com	8329665367
2.Astha V. Puranik	vjpuranik1974@gmail.com	9850354321
3.Tanushree B. Gaymukhe	tanushreegaymukhe@gmail.com	8010470582
4.Shivani S. Lakade	lakadeshivani84@gmail.com	9860107773
5.Triveni N. Moon	trivenimoon6@gmail.com	9834982729
6.Anju S. Gujar	anjugujard@gmail.com	8208527024
7. Tejaswi J. Meshram	meshramtejswi@gmail.com	8010212896
8.Anapurna S. Junghare	anpurnajunghare@gmail.com	9699275361
9.Bhumika N. Dhramgodiya	bhumikadhramgodiya@gmail.com	7276081662
10.Nikita G. Rakhade	nikitarakhade1@gmail.com	9503356591
11.Sana H. Sheikh	sanahamidshaeikh10@gmail.com	7058625963
12.Yogita P.Choudhary	yogitachoudhari062@gmail.com	7058764653
13.Shifa M. Zakir	Shifafatema986047@gmail.com	8600774463
14.Masira S. Ali	Masiraali88@gmail.com	8432899395
15.Mayuri Wasamwar	-	7083637139
16.Akansha V. Funde	-	7767054364

B.S. Tapase
COURSE COORDINATOR:

Dr.Bharati S. Tapase

Department of Environmental Science.





Attendance for the

Month of

Roll No.	NAME																						Total Lect Pract after															
		4/10/23	5/10/23	11/10/23	12/10/23	18/10/23	19/10/23	25/10/23	26/10/23	6/11	7/11	13/11	14/11	20/11	21/11	27/11	28/11	31/11	4/11/24	10/11/24	11/11/24	17/11/24		18/11/24	24/11/24	25/11/24	31/11/24	1/12/24	8/12/24	9/12/24	14/12/24	15/12/24	22/12/24					
	CERTIFICATE COURSE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
1	Ms. Jayee S. Jain	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2	Ms. Astha N. Bhusanik	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3	Ms. Triveni N. Moon	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4	Ms. Madhusi D. Wasankar	A	A	A	P	A	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5	Iqbal K. Md. Firoz	A	A	A	P	A	A	P	P	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
6	Shirani S. Latke	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
7	Ms. Tanushre B. Gayamukhe	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	Anju S. Gujar	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9	Ku. Shifa F. Zakir	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
10	Yogita Choudhary	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
11	Tejaswini Meshram	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	Akansha W. Funde	A	A	A	A	A	A	A	A	A	A	A	A	P	P	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
13	Annapurna Turghase	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
14	Bharmika N. Dharamodia	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
15	Nikita Rakhade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
16	Sayeeda M. F.D. Ali	A	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17	Sona Sheikh Harid	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

[Handwritten signature]

MSuobl
17/10/24
Off. Principal
Sevadale Mahila Mahavidyalaya
Nagpur.



Sevadal Mahila Mahavidyalaya

Place for Higher Learning & Research (Research Academy)
Sakkaradara Square, Umrer Road, Nagpur-440024

THEORY EXAMINATION OF CERTIFICATE COURSE

SUBJECT -: SEWAGE TREATMENT PROCESS

Department of Environmental Science

SUMMER-2023-24

Time-3 hours

Date -25 April 2024

Total marks -60

All questions are compulsory and carry equal marks. (10 marks for each question)

Q1 .What is sewage? Discuss the sources and effects of sewage on water body?

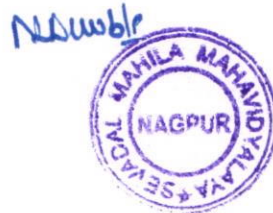
Q2. Discuss the process of Organic content i.e. COD and BOD for sewage estimation.

Q3. Discuss in details about the characteristics of sewage.

Q4. Write on Nitrogen and Phosphate estimation methods.

Q5. Discuss the physical and chemical unit operation used in sewage treatment process.

Q6. Which processes apply for sludge management, discuss it briefly.



Pr. base
25/4/24

Sevadal Mahila Mahavidyalaya

Place for Higher Learning & Research (Research Academy)
Sakkaradara Square, Umrer Road, Nagpur-440024

PRACTICAL EXAMINATION OF CERTIFICATE COURSE

SUBJECT –: SEWAGE TREATMENT PROCESS

Department of Environmental Science

SUMMER-2023-24

Time-3 hours

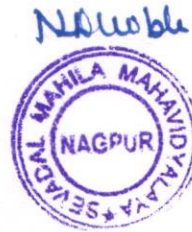
Date -26 April 2024

Total marks -20

Solve any two practicals from following question. (10 marks each)

- Q.1. Estimation of Nitrogen in a given sewage sample.
- Q.2. Estimation of Total Organic Carbon in provided sewage sample.
- Q. 3. Estimation of Organic Content i.e. COD and BOD in provided sewage sample.
- Q. 4. Determination of Dissolved Oxygen in sewage waste sample.
- Q. 5. Estimation of Turbidity and Acidity of a sewage sample.

External Examiner



Bhambur

Internal Examiner

Sevadal Mahila Mahavidyalaya

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Mark list of Certificate course

SEWAGE TREATMENT PROCESS

Session:2023-2024

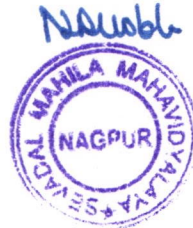
Date: 28-04-2024

Total Marks 100

Sr. No.	Name of Students	Theory Paper-60M	Practical Exam-20 M	Assignment 20 M	Total Marks
1.	Jayee S. Jain	51	17	17	85
2.	Astha V. Puranik	54	18	18	90
3.	Tanushree B. Gaymukhe	54	18	18	90
4.	Shivani S. Lakade	49	16	16	81
5.	Triveni N. Moon	43	15	15	73
6.	Anju S. Gujar	46	16	10	72
7.	Tejaswi J. Meshram	30	10	10	50
8.	Anapurna S. Junghare	39	10	10	59
9.	Bhumika N. Dhramgodiya	42	18	12	72
10.	Nikita G. Rakhade	48	18	18	84
11.	Sana H. Sheikh	42	18	18	78
12.	Yogita P.Choudhary	42	15	15	72
13.	Shifa M. Zakir	25	10	10	45
14.	Masira S. Ali	24	11	10	45
15.	Mayuri Wasamwar	28	9	10	47
16.	Akansha V. Funde	26	9	11	46

B.S. Tapase
Coordinator

Dr. Mrs. B.S. Tapase



N. S. Dhoble
Prof. (Mrs.) N. S. Dhoble
Off. Principal

Sevadal Mahila Mahavidyalaya, Nagpur.



Sevadal Shikshan Sanstha's
NAAC RE-ACCREDITED WITH 'A' GRADE

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Sakkardara Square, Umrer Road, Nagpur-440024

Certificate of Completion

This certificate is awarded to

Ms. Masira S. Ali

she has successfully completed the Certificate Course in
"*Sewage Treatment Process*",
conducted by the Department of Environmental Science.

Date : 30/04/2024

B. Tapase
Dr. (Mrs.) Bharati S. Tapase
Course Coordinator

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

N. Dhoble