

Shri Shivaji Education Society, Amravati's
SCIENCE COLLEGE
Congress Nagar, Nagpur-12 (M.S.)

India Accredited with CGPA of 3.51 at 'A+' grade by NAAC, Bangalore A
"College with Potential for Excellence" identified by UGC New Delhi.
Institutional Member of APQN Recognized Centre for Higher Learning and
Research Mentor College under 'PARAMARSH Scheme', UGC, New Delhi
NIRF-2024 Rank-band: 201-300

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF GEOLOGY

Short Term Course under Jeevan Shikshan Abhiyan on No Grant
Basis (2023-24)

Course Title: Certificate Course in Groundwater Exploration
(Hydrogeology)

(Skill based Certificate Course)

Duration – 45 Hours (15 Weeks) (T-30 hrs, P-15 hrs)

No. of Credits: 2

Course Start from 16th March 2024 to 5th May 2024

Course Coordinator: Dr. P. B. Zamarkar

S.S.E.S.A's
Science College
Congress Nagar, Nagpur

Certificate course in Groundwater Exploration
Session 2023-2024

Notice

It is hereby notified to all the students of Certificate course in Groundwater Exploration that their classes will be commenced from 16th March 2024 regularly. Therefore, they are asked to attend the classes on regular basis. All the classes will be running simultaneously with the UC regular classes as mentioned in the timetable.



Course Coordinator

S. S. E. S. A's
Science College
Congress Nagar, Nagpur

Notice


All the students enrolled for Certificate course in Groundwater Exploration (Hydrology) are informed to attend 1 day workshop on 12th April 2024, Friday. It is Compulsory to attend the workshop as there will be Guest lecture followed by hands on training on well inventory and resistivity meter.

Date: 12 April 2024

Venue: Geology Department Lab.

Timing: 12:00 pm


Course Coordinator


12/04/24
Head
HEAD
Department of Geology
S. S. E. S. Amravati's
Science College, Nagpur.

Shri Shivaji Education Society Amravati's

Science College

Congress Nagar, Nagpur

Skill Base Course (2023 – 2024)

**Certificate Course in Groundwater Exploration
(Hydrogeology)**

Notice

All students enrolled in the Groundwater Exploration (Hydrogeology) Certificate program are notified that they must attend the exam on July 10, 2024. On the same day, there is a theory and practical examination.

Theory Examination: 11:00 AM – 12:30 PM

Practical Examination: 1:00 PM – 4:00 PM

[Signature]
04/07/2024

S.S.E.S.A's Science College, Congress Nagar, Nagpur
PCertificate Course Time Table
Groundwater Explo.ation (Hydrogeology)
2023-2024

Days	Class	7:30	8:18	9:06-9:54	10:00	10:48	11:36-12:24	12:44	1:32	2:20-3:08	3:08-4:08
Monday	B.Sc. I	G1 Practical (PW)					Theory (PBZ)				
	B.Sc. III				P-G1+G3 (ADF +PW)				(ADF)		
	B.Sc.V					Theory (VG)					
Tuesday	B.Sc. I	G1 Practical (PBZ)					Theory (VG)				
	B.Sc. III				P-G1+G3 (ADF + PBZ)				(PBZ)		
	B.Sc.V					Theory (PW)					
Wednesday	B.Sc. I			Theory (ADF)							
	B.Sc. III						Theory (PW)				
	B.Sc.V	Theory (ADF)			P-G1+G2 (PBZ)						
Thursday	B.Sc. I			Theory (ADF)							Certificate Course (Theory)
	B.Sc. III						Theory (PW)				
	B.Sc.V	Theory (VG)			P-G1+G2 (PBZ + ADF)						
Friday	B.Sc. I				Theory (PBZ)				P-G2+G3 (PBZ)		Certificate Course (Practical)
	B.Sc. III			Theory (ADF)		P-G2 (ADF)					
	B.Sc.V	P-G3 (VG)					Theory (PBZ)				
Saturday	B.Sc. I				Theory (PBZ)				P-G2-G3 (PW)		Certificate Course (Practical)
	B.Sc. III			Theory (ADF)		P-G2 (ADF)					
	B.Sc.V	P-G3 (VG)					Theory (PBZ)				

Course Coordinator Report

Course Name: Certificate Course in Groundwater Exploration (Hydrogeology) under Jeevan Shikshan Abhiyan on No Grant Basis (2023-24) sanctioned by RTMNU, Nagpur in Collaboration with Department of Life Long Learning and Extension, RTMNU, Nagpur and Department of Geology, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur. The classes held from 16th March to 5th May 2024. The course title was "Certificate Course in Groundwater Exploration".

Groundwater exploration is a crucial activity for identifying and utilizing underground water resources. This report outlines the methods, findings, and recommendations from a recent groundwater exploration project conducted in Shivaji Science College Campus.

One guest lecture was arranged on 12th April 2024 at 12 pm in Geology Lab, Ms. Sayalli Temburne, Scientist C, GSDA Nagpur, has given knowledge and field study about the subject.

Water Quality:

- Water quality analysis indicated that groundwater in the area is generally suitable for drinking and irrigation purposes.
- Found variations in mineral content and salinity levels across different aquifers.

Groundwater Availability:

- Estimated groundwater levels and recharge rates based on hydrogeological assessments.
- Found seasonal fluctuations in groundwater levels influenced by rainfall patterns.

At the end of this course students had the skills and knowledge to create their own well inventory data, Resistivity meter. The course duration was 12 weeks (45 hours). Two theory classes were engaged on Thursday & Friday and Saturday, one Practical was engaged in every week. The structure of marking system was 80 marks on theory paper and 20 marks on practical execution. The question paper of theory examination was in MCQ type of 40 questions with four multiple choices. Practical examination was also taken on this course for 20 marks on the field. Out of 37 students, 34 students were present in both theory and practical

examination. The result was prepared and certificates were also prepared to distribute among the students.

Action Taken:

The groundwater exploration course successfully identified and characterized potential aquifers in Shivaji Science College Campus. Recommendations for sustainable groundwater management and community engagement are essential for ensuring long-term access to clean and reliable water sources in the region. 34 students successfully completed the course.



Course Coordinator

Groundwater Exploration (Hydrogeology)

Session 2023-24

Photograph of Theory examination



Photograph of Practical Examination



Photograph of Guest lecture





Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Skill Base Course (2023 - 2024)

Subject: Certificate Course in Groundwater Exploration (Hydrogeology)

Department of Geology

Sr. No.	Students Full Name	Theory Marks (80)	Practical Marks (20)	Total (100)	Grade
1	Himanshi V. Mehar	46	20	66	B+
2	Saniya K. Borkar	70	20	90	A+
3	Vidhya M. Uike	40	10	50	B
4	Gauri S. Patle	40	20	60	B+
5	Harshal A. Mehar	72	20	92	A+
6	Durgeshwari R. Choudhari	52	20	72	A
7	Shraddha V. Masram	74	20	94	A+
8	Aarti O. Baghele	52	20	72	A
9	Ananya R. Sulakhe	66	20	86	A+
10	Sanchit M. Joshi	72	20	92	A+
11	Aayasha Jabeen	50	20	70	A
12	Kumudini T. Bawane	42	20	62	B+
13	Bhumika R. Thaware	40	20	60	B+
14	Nandini D. Choudhari	30	30	60	B
15	Saloni A. Nandanwar	30	20	50	B
16	Sharvari M. Patewar	34	20	54	B
17	Kirtika Y. Uikey	46	20	66	B+
18	Sumati S. Kale	34	20	54	B
19	Isha D. Dhole	A	A	A	AA
20	Kunali S. Bhindge	34	20	54	B
21	Priyanshu Attri	A	A	A	AA
22	Rupali B. Havelikar	42	20	62	B+
23	Gayatri T. Uikey	50	20	70	A
24	Sayali C. Kamble	38	20	58	B
25	Rohit K. Pal	30	20	50	B
26	Hitali P. Ramteke	50	20	70	A
27	Gaurav M. Parshuramkar	60	20	80	A+
28	Shamli P. Kale	40	20	60	B+
29	Saloni R. Selote	30	20	50	B
30	Saukhya D. Dongre	44	20	64	B+
31	Rugved D. Joshi	60	10	70	A
32	Pradnya S. Raut	40	10	50	B
33	Diksha R. Gedam	64	20	84	A+
34	Prachi N. Satikosare	40	10	50	B
35	Kopal P. Bhandare	A	A	A	AA
36	Natasha K. Pidurkar	48	20	68	B+
37	Shreyal V. Bombarde	32	20	52	B

Course Coordinator

Shri Shivaji Education Society Amravati's
Science College
Congress Nagar, Nagpur
Skill Base Course (Groundwater Exploration)
Students List
(2023-2024)

Sr. No.	Name of the Student
1	Aayesha Jabeen
2	Kopal P. Bhandare
3	Kumuudini T. Bawane
4	• Prachi N. Satikosare
5	Shamli P. Kale
6	Saloni A. Nandanwar
7	Kunali S. Bhindge
8	Saukhya D. Dongre
9	Rupalui B. Havelikar
10	Natasha K. Pidurkar
11	Bhumika R. Thaware
12	• Harshal A. Mehar
13	• Rugved D Joshi
14	• Sanchit M. Joshi
15	• Priyanshu Attri
16	• Shraddha V. Masram
17	Saloni R. Selote
18	• Saniya K. Borkar
19	• Gaurav M. Parshuramkar
20	Rohit Pal
21	Ananya R. Sulakhe
22	Durgeshwari R. Choudhari
23	• Sharvari M. Patewar
24	• Himanshi V. Mehar
25	Nandini D. Choudhari
26	Kirtika Y. Uikey
27	• Sheryal Bombarde
28	• Gayatri Tejram Uikey
29	• Vidhya M. Uike
30	• Isha A. Dhole
31	• Diksha R. Gedam
32	Aarti O. Baghele
33	• Gauri S. Patle
34	Sumati S. Kale

35
36
37

Pradnya S. Raut
Hitab P. Ramteke
Sayali. Kamble

SSSAA'S
Science College

Congress Nagar, Nagpur

Theory Exam: Certificate course in Groundwater Exploration (2023-2024)
Attendance

Sr. No.	Name of the Student	Signature
1	Aaysha Jabeen	
2	Kopal P. Bhandare	
3	Kummuudini I. Bawane, Kumudini T. Bawane	
4	Prachi N. Satikosare	
5	Shamli P. Kale	
6	Saloni A. Nandanwar	
7	Kunali S. Bhindge Bhondge	
8	Saukhya D. Dongre	
9	Rupali B. Havelikar	
10	Natasha K. Pidurkar	
11	Bhumika R. Thaware	
12	Harshal A. Mehar	
13	Rugved D. Joshi	
14	Sanchit M. Joshi	
15	Priyanshu Attri	
16	Shraddha V. Masram	
17	Saloni R. Selote	
18	Saniya K. Borkar	
19	Gaurav M. Parshuramkar	
20	Rohit Pal	
21	Aananya Sulakhe	
22	Durgeshwari Choudhari	
23	Sharvari Petwar	
24	Himanshi Mehar	
25	Nandini Choudhari	
26	Kritika Uikey	
27	Sheryal Bombarde	
28	Gayatri Uikey	
29	Vidhya Uikey	
30	Isha Dhole	
31	Dilsha Gedam	
32	Aarti Bagele	
33	Gauri Patle	
34	Sumati Kale	
35	Pradnya Raut	
36	Hitali ramteke	
37	Sayali Kamale	

S.S.I.S.A.S
Science College
Congress Nagar, Nagpur

Practical Exam: Certificate course in Groundwater Exploration (2023-2024)
Attendance

Sr. No.	Name of the Student	Signature
1	Aayesha Jabeen	<u>Ajha</u>
2	Kopal P. Bhandare	<u>Bhandare</u>
3	Kummuudinim F. Bawane	<u>Bawane</u>
4	Prachi N. Satikosare	<u>Satikosare</u>
5	Shamli P. Kale	<u>Kale</u>
6	Saloni A. Nandanwar	<u>Nandanwar</u>
7	Kunali S. Bhindge <u>Bhindge</u>	<u>Bhindge</u>
8	Saukkhya D. Dongre	<u>Dongre</u>
9	Rupali B. Havlikar	<u>Havlikar</u>
10	Natasha K. Pidurkar	<u>Pidurkar</u>
11	Bhumika R. Thaware	<u>Thaware</u>
12	Harshal A. Mehar	<u>Mehar</u>
13	Rugved D. Joshi	<u>Joshi</u>
14	Sanchit M. Joshi	<u>Joshi</u>
15	Priyanshu Attri	<u>Attri</u>
16	Shraddha V. Masram	<u>Masram</u>
17	Saloni R. Selote	<u>Selote</u>
18	Saniya K. Borkar	<u>Borkar</u>
19	Gaurav M. Parshuramkar	<u>Parshuramkar</u>
20	Rohit Pal	<u>Pal</u>
21	Ananya Sulakhe	<u>Sulakhe</u>
22	Durgeshwari Choudhari	<u>Choudhari</u>
23	Sharvari Petwar <u>Petwar</u>	<u>Petwar</u>
24	Himanshi Mehar	<u>Mehar</u>
25	Nandini Choudhari	<u>Choudhari</u>
26	Kritika Ukey	<u>Ukey</u>
27	Sheryal Bombarde	<u>Bombarde</u>
28	Gayatri Ukey	<u>Ukey</u>
29	Vidhya Ukey	<u>Ukey</u>
30	Isha Dhole	<u>Dhole</u>
31	Dilsha Gedam	<u>Gedam</u>
32	Aarti Bagele	<u>Bagele</u>
33	Gauri Pale	<u>Pale</u>
34	Sumati Kale	<u>Kale</u>
35	Pradnya Raut	<u>Raut</u>
36	Hitali Ranteke	<u>Ranteke</u>
37	Sayali Kamale	<u>Kamale</u>

Signature

Ajha
Bhandare
Bawane
Satikosare
Kale
Nandanwar
Bhindge
Dongre
Havlikar
Pidurkar
Thaware
Mehar
Joshi
Joshi
Attri
Masram
Selote
Borkar
Parshuramkar
Pal
Sulakhe
Choudhari
Petwar
Mehar
Choudhari
Ukey
Bombarde
Ukey
Ukey
Dhole
Gedam
Bagele
Pale
Kale
Raut
Ranteke
Kamale
S.

Shri Shivaji Education Society Amravati's Science College
Congress Nagar Nagpur
Certificate Course in Groundwater Exploration (Hydrogeology)

Attendance

✓
Theory / Practical (2023-2024)

Name of the Teacher: Dr. P. B. Zamarkar

Sr. No.	Name of the Student	16/5/24	22/5/24	29/5/24	4/6/24	11/6/24	18/6/24	25/6/24	2/7/24	9/7/24	16/7/24
1	Mayasha Jabeen	P	P	P	P	P					
2	K.P. Bhandare	P	P	P	P	P					
3	K.T. Bawane	P	P	P	P	P					
4	P.N. Sahasrarc	P	P	P	P	P	P	P			
5	S.P. Kale	P	P	P	P	P					
6	S.A. Mandanwar	P	P	P	P	P					
7	K.S. Bhindge	P	P	P	P	P	P	P			
8	S.D. Dongre	P	P	P	P	P	P				
9	R.B. Havlikar	P	P	P	P	P	P				
10	N.K. Pidurkar	P	P	P	P	P					
11	B.R. Thaware	P	P	P	P						
12	H.A. Mehax	P	P	P	P	P	P				
13	R.D. Joshi	P	P	P	P	P	P	P			
14	S.M. Joshi	P	P	P	P						
15	P. Attari	P	P	P	P	P	P	P			
16	S.V. Masram	P	P	P	P						
17	S.R. Selote	P	P	P	P	P					
18	S.K. Borikar	P		P	P	P	P				
19	G.M. Parshurambho	P	P	P	P	P	P	P			
20	Rohit Pal	P	P	P	P						
21	A.R. Sulakhe	P	P	P							
22	D.R. Choudhary	P		P	P	P					
23	S.M. Patelkar	P	P								
	H.V. Mehax	P	P	P	P						
	N.D. Choudhary	P	P	P	P	P	P				
26	K.Y. Vikey	P	P	P	P						
27	S. Barnbarde	P	P	P	P						
28	G.T. Vikey	P			P						
29	V.M. Vike	P	P	P	P	P	P	P			
30	I.A. Dhote	P	P	P	P						
31	D.R. Gedam	P	P	P	P	P					
32	A.C. Baghele	P	P	P	P						
33	G.S. Patle	P	P	P							
34	S.S. Kale	P	P	P	P	P	P	P			
35	P.S. Raut	P	P	P	P						
36	H.P. Ramleke	P	P	P	P						
37	Safali Kamble	P	P	P	P						

**Shri Shivaji Education Society Amravati's Science College,
Congress Nagar Nagpur**

Certificate Course in Hydrogeology Exploration (Hydrogeology)

Name of student.....
.....

Please rate the following aspects of the program on a scale from 1 to 4, with 1 being "Poor" and 4 being "Excellent"

Q.1 Relevance of the event

1	2	3	4
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Q.2 Clarity of Instructions

1	2	3	4
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Q.3 Engagement of Instructor

1	2	3	4
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Q.4 Interaction and Participation

1	2	3	4
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Q.5 Benefits of Program

1	2	3	4
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