

Date:- 12/01/2022

To,
The Principal,
Nutan Mahavidyalaya, Selu
Dist. Parbhani.

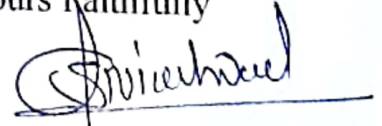
Subject : Organization of Certificate Course on drinking water analysis from different stations at Selu dist Parbhani.

Respected Sir,

As per the subject highlighted above I, on behalf of Department of Chemistry, hereby, feels glad to convey you that we are planning to organize 1 weeks certificate Course on drinking water analysis from different stations at Selu dist Parbhani for all the interested students of our institution. The course will run from 18/01/2022 to 25/01/2022.

I request you to permit us for the successful organization of this course.

Yours Faithfully



Dr. K.S. Niralwad



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NUTAN MAHAVIDYALAYA SELU, DIST. PARBHANI

DEPARTMENT OF CHEMISTRY

2021-2022

CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT STATIONS AT SELU DIST PARBHANI

Introduction


Water is commodity which is essential for mankind. Human life cannot exist without water for a few days. It is the nature's free gift to human race. It is available in various forms such as river, lakes, streams etc. The importance of water in human life is so much that the development of any city of the world has practically taken place near some source of water supply.

The use of water by man, plants and animals is universal. As a matter of fact, every living soul requires water for its survival. It is essential for life health and sanitation. Man can live without food for about one month, but he can hardly survive for three to four days without water.

The water covers three quarters of our planet and yet it is said to note that about 70% of the world's population survive without clean water.

Need for analysis:-

1. To ascertain if the supplies maintain the required degree of purity and to find out the extent of any variations which occurs?
2. To ascertain the effect of heavy rainfall or so long continued drought on river waters.
3. To decide that the water obtained from some additional sources or sources of supply will be pure, wholesome, not too hard and free from the risk of any pollution.
4. To find out the organism responsible for spreading water born diseases.


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5. To suggest the best method of purifying, of softening or of preventing action on mains and supply pipes etc.



Procedure for sampling:-

The process of collecting samples is known as sampling. It is very essential to collect a representative sample and preserve it till all the analyses are carried out. In sampling sites selection, collection of sample, there handling and preservation are important.

Parameter adapted:-

To check the potability of water which is consumed by the people at present in Sailu. Analysis was carried out from different areas and from that we can conclude, whether the water is fit for drinking or not. Following are the parameters which are carried out during the analysis of water. They are PH, EMF, Acidity, Alkalinity, CO₂, Chlorides, Residual Chlorine, Hardness and Total solids.

PROCEDURE ADAPTED FOR EACH PARAMETER:-

1. **PH:-** Ph of water was found out by using buffer solution No.4 and PH meter. Ph meter should be adjusted to 4 PH and then PH of different samples is to be taken. For most practical purposes, the PH of aqueous solution can be taken as negative logarithm of hydrogen activity, 1-7 acidic, 7-14 increasingly alkaline and 7 is neutral.

The PH of neutral water usually lies in the range of 4.4-8.5.

2. **Total alkalinity:-** It is the measure of capacity of the water to neutralize a strong acid. Total alkalinity, carbonates and bicarbonates is estimated by titrating the sample with a strong acid HCl having normality 0.05 N.
3. **Total acidity:-** It is expressed by normality of the solution which is equal to the number of grams equivalents of acid in one liter of solution.


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Acidity can be determined by titrating the sample with a strong base such as NaOH having normality 0.05 N using methyl orange or phenolphthalein as an indicator.

If the sample has strong mineral acid and their salts it is titrated using methyl orange as an indicator. This is collected as methyl orange acidity.

If the sample is titrated using phenolphthalein it is phenolphthalein acidity. The resultant value is the total acidity.


4. **The CO₂**:- Which is found in well waters and surface water to a great extent can cause corrosion. The CO₂ present in water in excess of carbonates and bicarbonates is known as free CO₂.

The sample is taken and 2/3 drops of phenolphthalein as an indicator, if colour does not become red then CO₂ is present. The titration is against 0.05 N NaOH till pink colour appears.

5. **Chlorides**:- It occurs naturally in all types of water. In natural fresh water, however its concentration remains quite low. The most important source of chloride in natural water is the discharge of sewage. In very high concentration it gives a salty taste to the water.

Chemicals used are :-

1. Silver nitrate (AgNO₃) 0.01 N
1.698 gms of AgNO₃ + 100 ml distilled water
2. NaCl 0.011 N
0.5984 gms of NaCl + 1000 ml distilled water
3. Potassium chromate (K₂Cr₂O₇) 2%
2 gms of potassium chromate + 100 ml distilled water


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10 ml of sample is taken and few drops of potassium chromate as an indicator.

Titrate this mixture against AgNO_3 0.01 N. End point of reaction is yellow to brick red.


6. **Dissolved oxygen:-** The presents of dissolved oxygen is essential to maintain the higher forma of biological life and to keep the proper balance of various populations thus making the water body healthy. The chemical and biochemical processes underggoing in a water body are largely depend upon the presence of oxygen.

Chemicals and reagents:-

1. *Sodium thiosulphate* :- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
2. *Manganouschloride solution (winkler A)* :- Add 40 gms of manganous chloride to about 25 ml distilled water in a beaker. Transfer this to a volumetric flask and make upto 100 ml with distilled water.
3. *Alkaline potassium iodide reagent (Winkler B)*:-Dissolve 33 gms of NaOH and 10 gms of KI in 75 ml distilled water. Cool the solution and make up the volume of 100 ml.
4. *Concentrated sulphuric acid*
5. *Starch indicator 1%*

Oxygen from any given water sample is generally estimated by winkler method, MnCl_2 when added to a known volume of water containing dissolved oxygen it will be converted into manganous hydroxide, this is dissolved in HCl and made to react with KI so that an equivalent quantity of iodine is then liberated, iodine produces blue colour due to idolization. When the mixture treated against standard solution of sodium thiosulphate, the colour disappeared due to binding of iodine as sodium iodine.

7. **Total solids:-** The surface water containing filterable and infilterable solids. For the determination of total solids as a convenient quantity of sample water to be taken is (250 ml) but if the water is very hard then a 50 ml of sample water will be suitable. The estimation is considered on infiltrated sample. The water sample should be evaporated


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in an oven for one hour at 103°C -105°C. The residue after the evaporation subs which are present in given sample of water.

8. **Hardness:-** Hardness is calculated as total hardness and permanent hardness.

Total hardness:- Take 10 ml of water to be tested, add one ml of buffer solution and few drops of Erichrome black T as an indicator and titrate with standard EDTA solution until the colour changes from urine red to blue.

Permanent hardness:- Place 250 ml of sample and boil gently for 20 min. Cool and filter in 250 ml standard flask. Do not wash filter paper. Dilute filtrate upto the mark. Mix well. Pipette out 10 ml of this solution in a conical flask. Add 11 ml of buffer solution and EBT as an indicator and titrate against standard EDTA solution.

Results and discussion:-The values of the analysis from chart no. 2. are compared with the values from chart no. 1 as these are standard values from these observation it is found that PH of all samples as nearly equal to seven i.e. neutral PH this indicate water is potable. The mean chloride value is 124.78. The accepted value is upto 200, but in the analysis the amount of chlorides was observe negligible. The amount of total solids is admissible value therefore it can be concluded that the samples analyzed are fit for drinking purposes.



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Table No. 1


Drinking water standards

World Health Organization

Sr.no.	parameter	High Desirable	Maximum permissible	Accepted
1	PH	7 to 8.5	6.5 to 9.2	7 to 8.5
2	Total solids	500	1500	500
3	Total Hardness CaCO ₃	100	500	200
4	Chlorides	200	600	200

Table no.2

Sr.no.	Samples	PH	Acidity mg/l	Alkanility mg/l	CO ₂ mg/ l	Total solid mg/l	Total Hardness mg/l	D.O. mg/l
1	Hand Pump water	7	330	1140	57.2	108	111.2	2.1
2	Stored water	8	320	860	79.2	78	680	2.38
3	Hotel Water	6.5	0.42	61	22	92	304	3.2
4	Earthern pot water	8.2	0.70	55	35.2	45	180	3.8
5	Water from slum area	7.2	440	320	39.6	136	240	3.1


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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT STATIONS AT SELU DIST PARBHANI TIMETABLE

Date	Time	Course	Faculty	Room No
18/01/2022 to 25/01/2022	8.30 to 9.30 AM	On Drinking Water Analysis From Different Stations At Sailu Dist Parbhani	Dr. K.S. Niralwad Mr. P. R. Pande	Chemistry Lab

Examination Pattern and Marks distribution

- Final exam Questions are to be set from entire syllabus.
- The internal assessment marks shall be awarded on the basis of assignment.
- A minimum of 40 % score will be required separately to pass the practical and internal assessment.


Sr. No.	Theory/Int. Assessment	Total marks	Min. marks for passing
1.	Practical	40	16
2.	Assignment	10	06
3	Total	50	22

Grade-

1-40-50=O

2-30-40=A

3-20-30=B


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Time Table


Sr.No	Date	Time	Topic	Name of Faculty
1	18/01/2022	8.30 to 11:50	Introduction Properties of water	Mr. P.R. Pande
2	19/01/2022	8.30 to 9.30	Sample collections	Dr. K. S. Niralwad
3	20/01/2022	8.30 to 9.30	Analysis of PH& CO ₂	Mr. P.R. Pande
4	21/01/2022	8.30 to 9.30	Analysis of Total alkalinity & Dissolved oxygen	Dr. K. S. Niralwad
5	22/01/2022	8.30 to 9.30	Analysis of Total acidity & Chlorides	Mr. P.R. Pande
6	24/01/2022	8.30 to 9.30	Analysis of Total solids & Hardness	Dr. K. S. Niralwad
7	25/01/2022	8.30 to 11:30	Result & Examination	Mr. P.R. Pande


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References

1. Abebe L (1986) Hygienic water quality; its relation to health and the testing aspects in tropical conditions. Department of Civil Engineering, University of Tempere, Finland
2. Aremu MO et al (2011) Physicochemical characteristics of stream, well and borehole water sources in Eggon, Nasarawa State, Nigeria. J Chem Soc Nigeria 36(1):131–136
3. Ayenew T (2004) Environmental implications of changes in the levels of lakes in the Ethiopian Rift since 1970. Reg Environ Chang 4:192–204
4. Edimeh et al (2011) Physico-chemical parameters and some Heavy metals content of rivers Inachalo and Niger in Idah, Kogi State. J Chem Soc Nigeria 36(1):95–101
5. Ezeribe AL et al (2012) Physico-chemical properties of well water samples from some villages in Nigeria with cases of stained and mottle teeth. Sci World J 7(1):1–13


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DEPARTMENT OF CHEMISTRY

**CERTIFICATE COURSE ON DRINKING WATER ANALYSIS
FROM DIFFERENT STATIONS AT SELU DIST PARBHANI**

Question paper

Total Marks-40

Date 25/01/2022

Time-1.30 min

---- Attempt all of the following:

Q.1 Analysis of PH& CO₂ of given sample

Q.2 Analysis of Total alkalinity & Dissolved oxygen of given sample

Q.3 Analysis of Total acidity & Chlorides from given sample

Q4. Analysis of Total solids & Hardness

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CERTIFICATE COURSE ON DRINKING WATER ANALYSIS
FROM DIFFERENT STATIONS AT SELU DIST PARBHANI

Assignment- I

Total Marks-10

Attempt the following Questions

Q.1 Explain Properties of water


Q.2 Write a note on :

1 PH

2 Total Solid

3 Hardness

4 Dissolved Oxygen


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CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT STATIONS AT SELU DIST PARBHANI

Result

Sr. NO	Name of the student	Marks Obtained		Total Mark	Grade
		Practical 40Marks	Assignment 10 Marks		
1	CHALAK KULDEEP KAILAS	38	10	48	O
2	DHAPSE ALKA PANDURANG	35	10	45	O
3	KADAM YASHA KISHOR	32	10	42	O
4	NAIKWADE DIPAK SANJAY	36	10	46	O
5	PATHAN FARANA ANWARKHA	37	10	47	O
6	PODHADE VAISHNAVI NIVRUTTIRAO	35	10	45	O
7	SHAHARE PRITI SHRIKRUSHNA	33	10	43	O
8	UGHADE UMA ASHOKRAO	33	10	43	O
9	RANJWAN MAHESH RANGNATHRAO	34	10	44	O
10	GADEKAR VAISHNAVI PANDURANG	38	10	48	O
11	HOGHE POOJA ARUN	32	10	42	O
12	BHISE JAYSHRI RATAN	36	10	46	O
13	CHAVAN SUNNY LAXMAN	34	10	44	O
14	GUTTHE MOHINI PARMESHWAR	33	10	43	O
15	HAKE SHILPA ASHOK	35	10	45	O
16	JAISWAL YOGITA RADHESHAM	33	10	43	O
17	KARKE BHAGYASHRI RAJARAM	32	10	42	O
18	LIPNE JIVAN SHANKARRAO	36	10	46	O
19	PADGHAN MAYURI DAMODHAR	37	10	47	O
20	SHAIKH AREF ISMAEL	38	10	48	O
21	THORAT VAISHNAVI DINKARRAO	38	10	48	O


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CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT STATIONS AT SELU DIST PARBHANI

Attendance

Sr. No.	Name of Students	18	19	20	21	22	24	25
1	CHALAK KULDEEP KAILAS	P	P	P	P	P	P	P
2	DHAPSE ALKA PANDURANG	P	P	P	P	P	P	P
3	KADAM YASHA KISHOR	A	P	P	P	P	P	A
4	NAIKWADE DIPAK SANJAY	P	P	P	A	P	P	P
5	PATHAN FARANA ANWARKHA	P	A	P	A	P	A	P
6	PODHADE VAISHNAVI NIVRUTTIRAC	P	P	P	P	P	P	P
7	SHAHARE PRITI SHRIKRUSHNA	P	P	P	P	A	P	A
8	UGHADE UMA ASHOKRAO	P	P	P	P	P	P	P
9	RANJWAN MAHESH RANGNATHRAO	P	P	P	P	P	P	P
10	GADEKAR VAISHNAVI PANDURANG	P	P	P	P	P	P	P
11	HOGHE POOJA ARUN	P	P	P	P	P	P	P
12	BHISE JAYSHRI RATAN	P	P	P	P	P	P	P
13	CHAVAN SUNNY LAXMAN	P	P	P	P	P	P	P
14	GUTTHE MOHINI PARMESHWAR	P	P	P	P	P	P	P
15	HAKE SHILPA ASHOK	P	P	P	P	P	P	P
16	JAISWAL YOGITA RADHESHAM	P	P	P	P	P	P	P
17	KARKE BHAGYASHRI RAJARAM	P	P	P	P	P	P	P
18	LIPNE JIVAN SHANKARRAO	P	P	P	P	P	P	P
19	PADGHAN MAYURI DAMODHAR	P	P	P	P	P	P	P
20	SHAIKH AREF ISMAEL	P	P	P	P	P	P	P
21	THORAT VAISHNAVI DINKARRAO	P	P	P	P	P	P	P


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CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT STATIONS AT SELU DIST PARBHANI

Feedback from student on certificate course

Full name of the student: -----

Class:-----

Title of the Certificate course:-----

Name of Department/Committee: -----

Rate the COC by choosing an appropriate option on 5 point scale as shown below.

1. Usefulness Of the Course : 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

2. syllabus of the course: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

3. Course Conduction: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

4. Teaching faculty: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

5. Conducted Tests : 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

6. Convenience of time: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

7. Relevance of the course in 21st Century: 1. Excellent 2. Very Good 3. Good 4. Average
5. Poor

8. Overall impact of the course: 1. Excellent 2. Very Good 3. Good 4. Average 5. Poor

9. Suggestions if-----

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Signature of student

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Nutan Vidyalaya Shikshan Sanstha's

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**CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT
STATIONS AT SELU DIST PARBHANI**

On 18/01/2022 to 25/01/2022.

CERTIFICATE

This is to certify that Mr/Mrs/_____ of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
analysis from different stations at Selu dist parbhani" during the Academic year
2021-22 with the grade _____. He/She completed 2 Week certificate Course.

Course Co-ordinator

IQAC Co-ordinator

Principal

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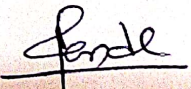
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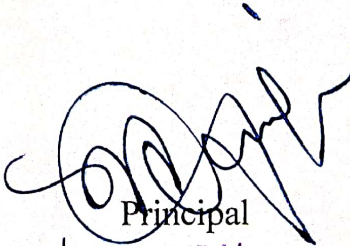
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This is to certify that Mr/Mrs/ Chalak Kuldeep Kailas of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


Course Co-ordinator


IQAC Co-ordinator
Director
IQAC
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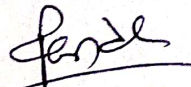
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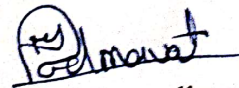
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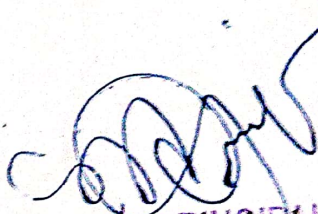
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This is to certify that Mr/Mrs/ Kadam Varsha Kishor of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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2021-22 with the grade A. He/She completed 2 Week certificate Course.


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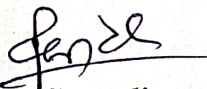
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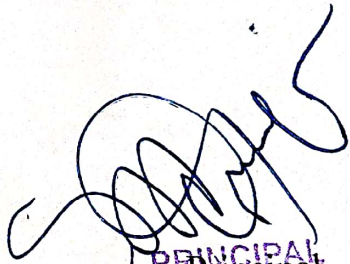
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IQAC Co-ordinator
**Director
IQAC
Nutan Mahavidyalaya, Selu**


**Principal
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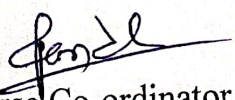
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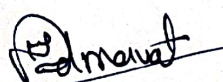
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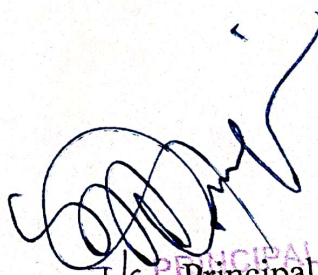
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This is to certify that Mr/Mrs/ Pathan Fazama Amwath of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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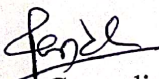
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CERTIFICATE

This is to certify that Mr/Mrs/ pathade vaishnavi Nivuttra of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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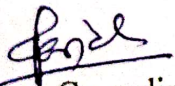
NUTAN MAHAVIDYALAYA SELU, DIST. PARBHANI


CERTIFICATE COURSE ON DRINKING WATER ANALYSIS FROM DIFFERENT
STATIONS AT SELU DIST PARBHANI

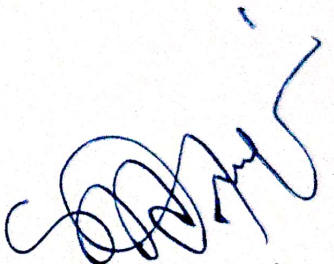
On 18/01/2022 to 25/01/2022.

CERTIFICATE

This is to certify that Mr/Mrs/ Shahase Paji Gaikeshna of B.Sc.
F.Y./S.Y/ T.Y. has successfully completed certificate course on "drinking water
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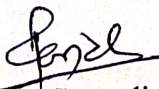
NUTAN MAHAVIDYALAYA SELU, DIST. PARBHANI

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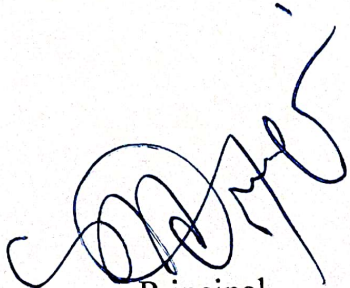
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CERTIFICATE

This is to certify that Mr/Mrs/ Ughade Uma Ashokeao of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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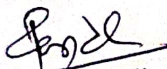


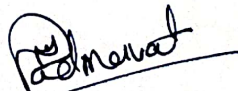
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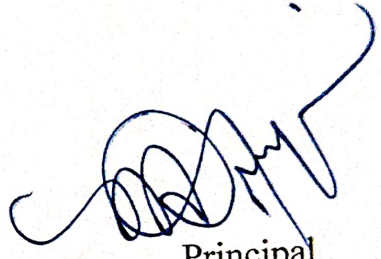
CERTIFICATE

This is to certify that Mr/Mrs/ Ramjwan Mahesh Ramnath of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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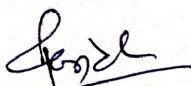
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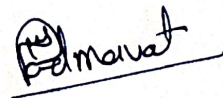
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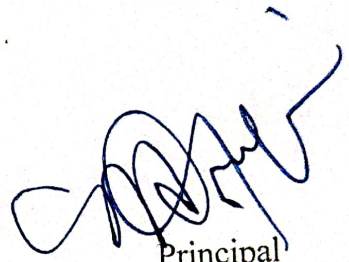
On 18/01/2022 to 25/01/2022.

CERTIFICATE

This is to certify that Mr/Mrs/ Gadega Vaishnavi Parclusang B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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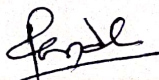
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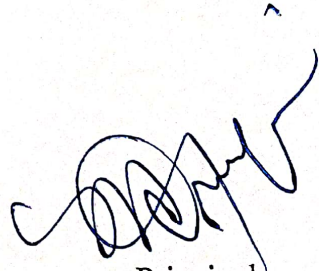
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CERTIFICATE

This is to certify that Mr/Mrs/ Hoge pooja Asum of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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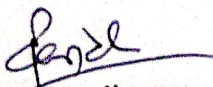



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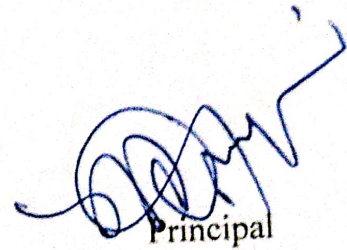
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This is to certify that Mr/Mrs/ Bhige Jayashree Ratam of B.Sc. F.Y./S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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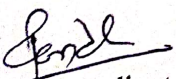
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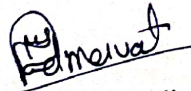
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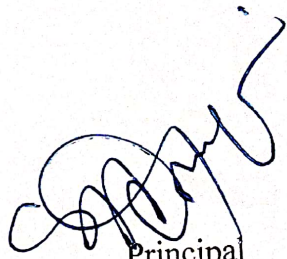
On 18/01/2022 to 25/01/2022.

CERTIFICATE

This is to certify that Mr/Mrs/ Chavan Summy laxman of B.Sc. F.Y./S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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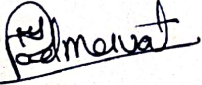
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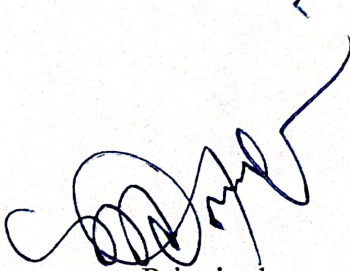
CERTIFICATE

This is to certify that Mr/Mrs/ Gutte Mohini Parmeshwar of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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This is to certify that Mr/Mrs/ Hake Shilpa Ashok of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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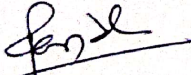


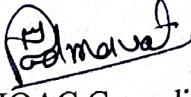
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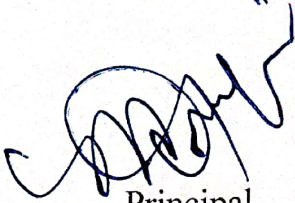
On 18/01/2022 to 25/01/2022.

CERTIFICATE

This is to certify that Mr/Mrs/ Jaiswal Yogita Radhesham of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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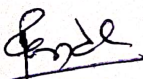
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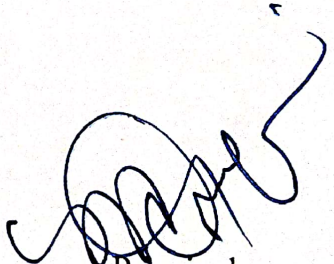
CERTIFICATE

This is to certify that Mr/Mrs/ Kaske Bhagyashree Rajaram of B.Sc.
F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water
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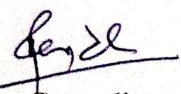
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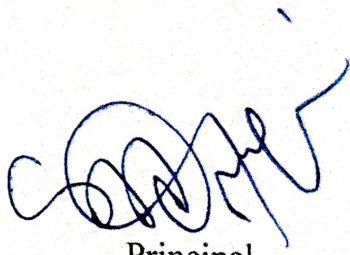
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CERTIFICATE

This is to certify that Mr/Mrs/ Lipme Jivam Shamkarsaw of B.Sc.
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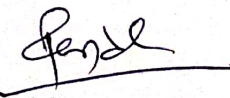
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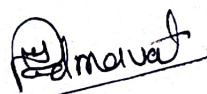
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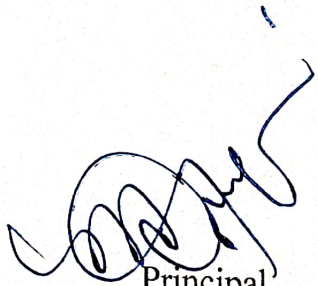
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This is to certify that Mr/Mrs/ padgham Mayuri Darnodae of B.Sc.
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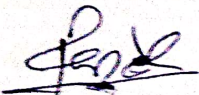
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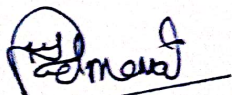
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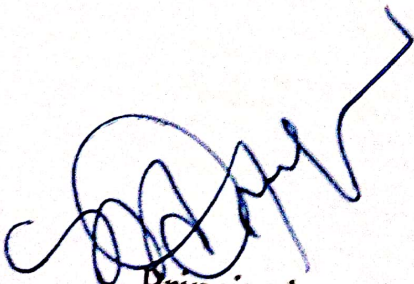
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This is to certify that Mr/Mrs/ Shri. Ajeet Ismile of B.Sc. F.Y/S.Y/ T.Y. has successfully completed certificate course on "drinking water analysis from different stations at Selu dist parbhani" during the Academic year 2021-22 with the grade A. He/She completed 2 Week certificate Course.


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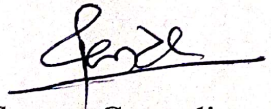
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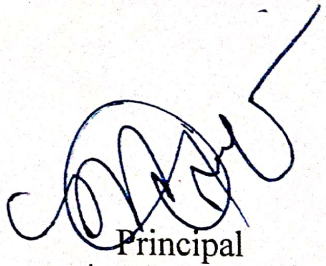
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This is to certify that Mr/Mrs/ Thozat vaishnavi Dinkar of B.Sc.
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