



SPVVS'S

**G.P.PORWAL ARTS, COMMERCE &  
V.V.SALIMATH SCIENCE COLLEGE,  
SINDGI**



**BROCHURE**



# DEPARTMENT OF CHEMISTRY

**CERTIFICATE COURSE**

**2021-22**

**TITLE : WATER ANALYSIS**

**DATE:18/10/2021 TO 04/12/2021**

**Inauguration  
18/10/2021  
Time : 10:30 AM**

**Valedictory  
10/12/2021  
Time : 10:30 AM**

*Mangalave*

H.O.D.  
Dept. of Chemistry  
G.P. Porwal Arts & Commerce &  
V.V. Salimath Science College,  
SINDGI-586128.

*SLM*

Coordinator IQAC  
G. P. PORWAL ARTS, COM &  
V. V. SALIMATH Sc. College,  
SINDGI-586128.

*A*

Principal,  
G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College,  
SINDGI-586128, College Code: 586128



S.P.V.V.S'S  
G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,  
SINDGI – 586 128  
(Dist: Vijayapur. Karnataka State)

**NAME OF THE**

**WATER ANALYSIS**

**OFFERED BY**

**DEPARTMENT OF  
CHEMISTRY**

**COURSE CODE**

**CCCHEMWAT21-22**

**COURSE**

**SMT.S.S. MANGALORE  
HOD, CHEMISTRY**

## **DEPARTMENT OF CHEMISTRY CERTIFICATE COURSE DETAILS**

### **INSTRUCTIONAL**

**30 HOURS** (This course is of Thirty Hrs duration which include Theory and Practical)

### **ABOUT COLLEGE**

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapur district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in chemistry. chemistry is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from the academic sessions 2021-22. The

### **ELIGIBILITY**

**ALL STUDENTS OF I SEMESTER ARE ELIGIBLE TO ENROLL FOR THE COURSE**

## SCOPE OF THE COURSE

The course paves way for Entrepreneurship and career opportunities in Central Government and State Government Organizations.

## OBJECTIVES

- TO know the quality of water in village.
- To check the portability of supplied water
- To find out the polluted ground water areas.
- To aware the village people regarding water borne diseases and their prevention.
- To identify the change in water quality parameters in temporary and spatial scale.
- To Asses the existing river quality.

## BENEFITS OF WATER

- Helps to prevent waterborne illness.
- Helps to protect human health.
- It lubricates the joints.
- It regulate the body temperature.
- It delivers oxygen throughout the body.
- It cushions the brain, spinal cord, and other sensitive tissues.

## COURSE OUTCOMES

- Student will able to describe the role water play in atmospheric systems and the climate system.
- Student will able to describe the interactions between water systems and ecosystems.
- To evaluate the physical and chemical character of water.
- To find the hardness of water and PH methods of testing.
- Identify the typical sources of elevated nitrate in source water.

## COURSE CONTENT

### UNIT-I

Introduction to Hydrology world water Resources of India- DIFFERENT Ecosystem of Hydrology Riverine, and Marine- status of Water Quality in India.

15Hrs

### UNIT-II

Water quality parameters and their interaction- physical and chemical characteristics-turbidity, color-temperature-chemical constituents, taste, color, acidity, alkalinity-co<sub>2</sub> hardness, PH-methods of testing.

15 Hr

## BOARD OF STUDIES

1. Prof. D.M.Patil : Chairman & Principal
2. Prof. S.S.Mangalore : Coordinator
3. Miss.P.S.Biradar : Member
4. Mr.S.S.Mamani : Member

THANK YOU



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G. P. Porwal Arts & Comm. College &

V. V. Salimath Science College



Coordinator IQAC

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Principal,

G. P. Porwal Arts, Comm &

V. V. Salimath Sc. College

SINDGI-586128. College Code: 5234

## Water analysis

It is Notice I 2021-22

It is informed to the faculty members of certificate course in chemistry subject that the meeting is held on 15/10/21 with following agenda.

- 1) Intimating of the certificate course to the students
- 2) syllabus and work load distribution
- 3) Issuing and receiving application forms
- 4) Commencement of classes
- 5) preparation of time table
- 6) BOS member formation

Coordinator IQAC

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- 1) principal - prof. D. M. patil
- 2) Smt S. S. Mangalau
- 3) S. S. Mancani
- 4) P. S. Bivadar
- 5) B. S. Hiremath
- 6) K. G. Stavaramath

## Meeting Resolutions

Meeting was conducted on 15/10/21 and following resolutions were undertaken.

- 1) Intimation of the course to be done by through Notice
- 2) syllabus and work load was distributed among the teaching staff members
- 3) Application form to be given to the students and filled forms to be collected from students.
- 4) Time table prepared for the academic year 2021-
- 5) Theory classes will be commencing from Oct

- 1) principal D.M. Patil
  - 2) Smt S-S. Mangalane
  - 3) P.S. Bhuadar
  - 4) S-S. Mamani
  - 5) B.S. Hiremath.
  - 6) K.G. Stavarmath.
- Mangalane  
 P. Bhuadar  
 Shivamane  
 Hiremath  
 K. Stavarmath

### Notice II

It is intimated to the following members of certificate course in chemistry subject that the meeting is held on 13/01/2022 with the following agenda.

- 1) Conducting Theory and practical exams.
- 2) Informing students about examination
- 3) Evaluation papers
- 4) Display of Marks on notice board
- 5) Distribution of certificate on Jan 2nd week
- 6) Bar number formation.

#### Members

- 1) principal - P. D.M. Patil
  - 2) Smt S-S. Mangalane
  - 3) S-S. Mamani
  - 4) P.S. Bhuadar
  - 5) B.S. Hiremath
  - 6) K.G. Stavarmath
- Mangalane  
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Principal,

G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
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Meeting was conducted on 13/11/22 and following resolutions were under taken

- \* conducting Theory and practical Exams
- \* Informing students about examination
- \* Evaluating papers
- \* Display of marks on Notice board
- \* Distribution of certificate on Tan 2nd week

- Members
- \* principal
  - \* principal prof D. M. Patil
  - \* Smt. S. S. Mangalure
  - \* S. S. Mlamani
  - \* P. S. Bisadai
  - \* B. S. Hiremath
  - \* K. G. Stavayamath
- Bangalore  
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G. P. Porwal Arts & Commerce &  
V. V. Salimath Science College  
SINDGI-586128
- Bangalore  
P. S. Bisadai  
B. S. Hiremath  
K. G. Stavayamath

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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

## DEPARTMENT OF CHEMISTRY

From,  
The HOD,  
Department of chemistry  
Date: 11-10-2021

To,  
The Principal,  
G P Porwal Arts ,Commerce and V V Salimath Science college

Sub: Permission to start certificate course on **Preparation of <sup>water</sup>soil analysis**

Respected Sir,

We are the faculty of chemistry department have decided to start Certificate course on "**Water analysis**" for BSc I sem students. So we kindly request you to please give the permission to start the course. Hope that the authority will consider the request and oblige.

Thanking You

Date: 11-10-2021

**Coordinator IQAC**

G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
SINDGI-586128. College Code: 5234

Yours faithfully

*Shangalau*  
HOD  
Dept. of Chemistry.  
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SINDGI - 586 128

**Principal,**

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CERTIFICATE COURSE FOR B.Sc 1<sup>st</sup> SEMESTER STUDENTS

DEPARTMENT OF CHEMISTRY

YEAR:2021-22

SUBJECT: WATER ANALYSIS

MEMBERS OF BOARD OF STUDIES (BOS)

SI NO	List of BOS Members
1	Prof. D.M. Patil Principal
2	Prof. Smt. S.S. Mangalore HOD
3	Miss. P. S. Biradar Lecturer
4	Miss. B.S.Hiremath Lecturer
5	Miss. K.G.Stavarmath Lecturer
6	Kumar S. S.Mamani Lecturer
7	Miss.Megha Bandari Lecturer (Kalpavruksha College, Moratagi)

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Coordinator IQAC

G. P. Porwal Arts, Comm &  
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Principal,

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V. V. Salimath Sc. College  
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Date;15/10/21

Miss. Megha Bandari  
Deapartament of chemistry  
Kalpavruksha college  
Moratagi 586123, Dist Vijayapur

Dear sir/madam

Subject: Regarding appointment letter as chemistry BOS Member.

With reference to the above cited subject,.I feel very happy to inform you that you have been appointed as chemistry BOS member for certificate course. ~~is~~ introduced by Department of Chemistry topic "soil analysis" for the academic year 2021/22.Kindly accept the same do need the needful.

Thanking you

Principal

**Principal,**  
G. P Porwal Arts, Comm &  
V V Salimath Sc. College  
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*H. O. D.*  
HOD of Chemistry

**H.O.D.**  
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## DEPARTMENT OF CHEMISTRY

### NOTICE

It is hereby informed to all the students of BSc I semester that Certificate course on "Water analysis " will be started in our college from 18-10-2021. Hence interested students may apply on or before 16-10-2021

Contact:

Prof: Smt. S.S.Mangalore

Prof: S.S.Mamane

  
Coordinator IQAC

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**DEPARTMENT OF CHEMISTRY**

**SYLLABUS OF WATER ANALYSIS**

**Unit:1**

HOUR:7

Introduction to Hydrology World Water Resource; Water Resources Of India – Different Ecosystem of Hydrology Riverine, Estuarine And Marine- Status Of Water Quality In India.


**Unit:2**

HOUR:8

Water quality parameters and their interaction –physical and chemical characteristics- turbidity,color-temperature-chemical constituents,taste,color,acidity,alkalinity-  
CO<sub>2</sub>,hardness,pH-methods of testing.

  
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**DEPARTMENT OF CHEMISTRY**

CERTIFICATE COURSE 2021-22

WATER ANALYSIS

TIME:2 Hrs

Marks:50

Q.NO.1 ANSWER THE FOLLOWING QUESTIONS.

2X5=10

- 1)what is hydrology?
- 2)what is ecosystem?
- 3)what is turbidity?
- 4)what is the ph of water?
- 5)what is the meaning of alkalinity?

Q.NO.1 ANSWER THE FOLLOWING QUESTIONS.

4X5=20

- 1)what are physical and chemical characteristics of water.
- 2)what are the methods of testing of ph of water.
- 3)what are the methods of testing of hardness of water.
- 4)what are the statues of water quality in India.

Q.NO.1 ANSWER THE FOLLOWING QUESTIONS.

- 1)what are the different ecosystem of hydrology presenting in India.
- 2)write a note on water quality parameters and their interaction.

*Srinivasan*  
2X10=20  
H.O.D.

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G.P. Porwal Arts & Commerce College  
V V Salimath Science College  
SINDGI - 586 128

*[Signature]*  
Coordinator IQAC

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*[Signature]*  
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**DEPARTMENT OF CHEMISTRY**

(only for First semester)

**THEORY & PRACTICAL TIME TABLE 2021-22**

Days	TIME		Name of the faculty
	THEORY	PRACTICAL	
Monday	3PM to 4PM		Prof: Smt. S.S.Mangalore Prof: S.S.Mamane Prof: P.S. Biradar
Tuesday	3PM to 4PM		
Wednesday		3PM to 4PM	
Thursday		3PM to 4PM	

*S.S. Mangalore*

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## DEPARTMENT OF CHEMISTRY

**Certificate Course 2021-2022**

**"Water analysis "**

### NOTICE

It is hereby informed to all the students of B.Sc I semester who have participated in Certificate course please attend Practical and Theory exam as per following time table.

Date	Day	Time		Marks
10/01/2022	Monday	3:00pm to 4:00pm	Theory	50
11/01/2022	Tuesday	3:00pm to 4:00pm	Practical	50

  
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SPVVSS

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Certificate Course-2020-21 2021-22

" WATER ANALYSIS "

Enrolment of the students

S.N	REGISTER NUMBER	STUDENT NAME	SEMESTER	SIGNATURE
1	U15NB21S0004	BHEEMASHANKAR G RAMASHETTI	I SEMESTER	<i>[Signature]</i>
2	U15NB21S0007	MUBEEN BIRADAR	I SEMESTER	M.P.B
3	U15NB21S0015	ALIYABEGUM SHAIKH	I SEMESTER	<i>[Signature]</i>
4	U15NB21S0014	AFRIN AMINSAB KARABANTANALA	I SEMESTER	A.A.G
5	U15NB21S0016	CHANDRASHEKHAR	I SEMESTER	<i>[Signature]</i>
6	U15NB21S0019	ABHISHEK RAJAPUT	I SEMESTER	A.R.J
7	U15NB21S0024	PAIGAMBAR NADAF	I SEMESTER	<i>[Signature]</i>
8	U15NB21S0028	KAVYA PRAKASH CHOUDHARI	I SEMESTER	Kavya C
9	U15NB21S0032	ROOPA PATIL	I SEMESTER	<i>[Signature]</i>
10	U15NB21S0033	VINOD DONUR	I SEMESTER	<i>[Signature]</i>
11	U15NB21S0034	AISHWARYA SHIVALINGAPPA NANDAGERI	I SEMESTER	<i>[Signature]</i>
12	U15NB21S0039	VAISHNAVI BASAVARAJ YANKANCHI	I SEMESTER	V.B.VANXANX
13	U15NB21S0044	PRAGATI HIREMATH	I SEMESTER	<i>[Signature]</i>
14	U15NB21S0054	LAXMI NIJAPPA DEVARAMANI	I SEMESTER	<i>[Signature]</i>
15	U15NB21S0055	MINITA BAJANTRI	I SEMESTER	<i>[Signature]</i>
16	U15NB21S0059	PADMAPRASAD BOGAR	I SEMESTER	P.J. Bogar
17	U15NB21S0062	PRAJWAL S M	I SEMESTER	<i>[Signature]</i>
18	U15NB21S0063	MAHANTESH PATTAR	I SEMESTER	<i>[Signature]</i>
19	U15NB21S0064	MAHESH WALI	I SEMESTER	<i>[Signature]</i>
20	U15NB21S0069	ASHWINI SHARANAPPA BIRADAR	I SEMESTER	<i>[Signature]</i>
21	U15NB21S0070	BASAYYA STHAVARAMATH	I SEMESTER	A.S.B
22	U15NB21S0071	GEETA HANAMANT TADALAGI	I SEMESTER	<i>[Signature]</i>
23	U15NB21S0072	GURUBAI SOMASHEKHAR PATIL	I SEMESTER	<i>[Signature]</i>
24	U15NB21S0075	ASHWINI	I SEMESTER	<i>[Signature]</i>
25	U15NB21S0077	VAJEER	I SEMESTER	<i>[Signature]</i>
26	U15NB21S0082	MAITRA BINDURAYA BIRADAR	I SEMESTER	<i>[Signature]</i>
27	U15NB21S0084	PAVITRA GUBBEWAD	I SEMESTER	M.B.B
28	U15NB21S0085	VIJAYAKUMAR KATTIMANI	I SEMESTER	<i>[Signature]</i>
29	U15NB21S0086	ABHISHEK BHEEMASHANKAR DEGINAL	I SEMESTER	<i>[Signature]</i>
30	U15NB21S0095	NIVEDITA BIRADAR	I SEMESTER	<i>[Signature]</i>
31	U15NB21S0098	GODAVARI KORI	I SEMESTER	<i>[Signature]</i>



32	U15NB21S0103	SHAHEED	I SEMESTER	<i>SH</i>
33	U15NB21S0107	BHAGANNA GURANNA SINDAGI	I SEMESTER	<i>BS</i>
34	U15NB21S0112	NETRA	I SEMESTER	<i>BS</i>
35	U15NB21S0114	ANISA	I SEMESTER	<i>NBYCWC</i>
36	U15NB21S0117	BHAGYASHREE BIRADAR	I SEMESTER	<i>BS</i>
37	U15NB21S0130	SHANTAVEER KHEDAKAR	I SEMESTER	<i>BS</i>
38	U15NB21S0136	NITEEN SHIVALINGAPPA KOPPA	I SEMESTER	<i>Shantaveer</i>
39	U15NB21S0137	SHIVARAJAKUMAR DOTRE	I SEMESTER	<i>N.S.K</i>
40	U15NB21S0144	VANITA	I SEMESTER	<i>V</i>
41	U15NB21S0152	SHANTA MATH	I SEMESTER	<i>Vanita</i>
42	U15NB21S0153	SHRUTI BASAVARAJ PATIL	I SEMESTER	<i>Shruti</i>
43	U15NB21S0155	SUPRITA BIRADAR	I SEMESTER	<i>S</i>
44	U15NB21S0157	REKHA	I SEMESTER	<i>Rekha</i>
45	U15NB21S0162	SUMAN K R	I SEMESTER	<i>Suman K R</i>
46	U15NB21S0167	BHAGIRATHI DESUNAGI	I SEMESTER	<i>Bhagirathi</i>
<i>47</i>	<i>U15NB21S0031</i>	<i>Bhuvaneshwari . S. Natikar</i>	<i>I SEMESTER</i>	<i>BS-SA</i>

*Shangabai*  
H.O.D.

Dept, of Chemistry,  
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V V Salimath Science College  
SINDGI - 586 128

*BS*  
Coordinator IQAC

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COLLEGE, SINDGI – 586 128** (Dist : Vijayapur. Karnataka State)

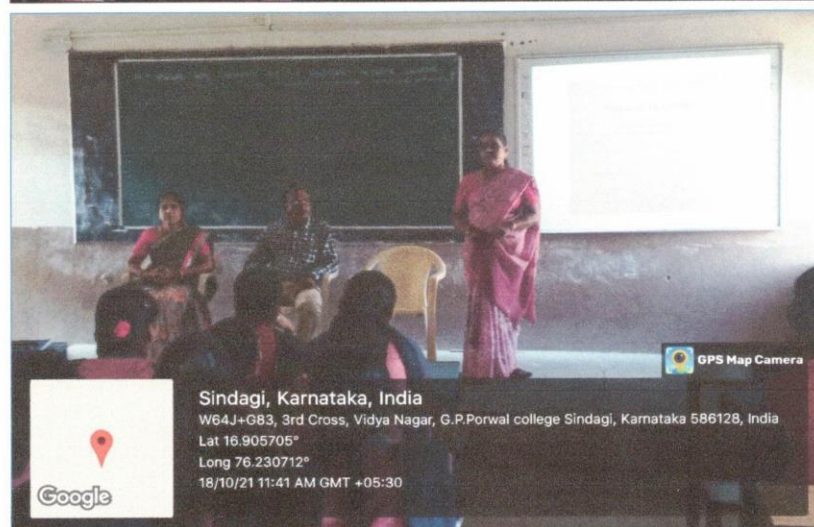
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### DEPARTMENT OF CHEMISTRY

WATER ANALYSIS

INAUGURATION OF CERTIFICATE COURSE: 2021-22



*Mangalou*  
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## Department of Chemistry

### APPLICATION FORM

Name of the Course: Water Analysis

Year of course: 2021-22

Semester: B.Sc I sem

0032



:General information of the Candidate:

Name: Roopa Patil

Sex: F

DOB: 29-01-2003

Caste: Hindu Lingayat

Annual Income:

Permanent Address: Sindgi Tal, Sindgi Dist: Vijayapur

:Declaration:

I hereby certify that above information furnished by me is true to the best of my knowledge and belief. I shall regularly attend all the theory classes in the college, in case shortage of the attendance I may not be permitted to appear for the examination. Further I declare that I shall abide by the rules and regulation of the college and adhere to the discipline.

  
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Name: Prajwal. S.M  
Subject: Chemistry, DSC  
Reg No: USNB21S0062  
class: BSC I Sem  
Date: 10.01.2022

38  
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Juagabou

1] What is hydrology?

Ans → It is a scientific study of the management movement and distribution of water on Earth.

2] What is ecosystem?

Ans → Ecosystem is a geographic area where plants animals and other organisms as well as weather and land scape, work together to form a bubble of life.

3] What is turbidity?

Ans → The cloudiness or haziness of a fluid caused by suspended solids that are usually invisible to naked eye, is known as turbidity.

4] What is the pH of water

Ans → Water has a pH of 7, its neutral. When exposed to  $CO_2$  in atmosphere the pH is approximately 5.2.

3] What is the meaning of alkalinity?

Ans- It is referred as the amount of alkali. An alkali is a chemical that can dissolve in water, combine with acids to form salts and make acids less acidic.

ii] Answer the following questions.

4] What is physical and chemical characteristics of water.  
Ans) water  $\rightarrow$  It is chemical substance made of one oxygen and two hydrogen. The structure is  $H_2O$

Physical characteristics

1] Turbidity of water  $\rightarrow$  For water, ppm and mg/l are approximately equal.

2] Colour:- water has no colour.

3] Taste and odour:- water has no odour but taste and odour depend on particle which are mixed in water.

4] Temperature of water:- For potable water the temperature is about  $10^\circ C$  is desirable. It should not be more than  $25^\circ C$

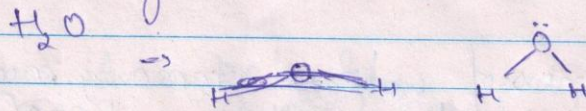
Chemical characteristics

1] pH value of water  $\rightarrow$  water has pH value of 7, which is neutral.

2) hardness of water → It is two types  
 1) Temporary hardness → presence of bicarbonates and carbonates of calcium and magnesium in water.

2) Permanent hardness: Presence of sulphates, chlorides and nitrates of calcium or magnesium in water.

3) chemical formula and structure



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2] What are the methods of testing of pH of water

→ There are two methods of testing of pH of water

- 1) colorimetric methods
- 2) electrochemical method using electrodes & pH meter

1) colorimetric method - using indicator solution on paper. ~~or using~~  
 - using ~~litmus~~ paper

2) Electrochemical method → using of electrodes by taking water in cup. testing & test plan is small. on site using a relatively small portable meter or benchtop meter. The benchtop meter has a cup that holds the water sample and a glass probe with two specialized electrodes.

3] what are the methods of testing of hardness of water.

Methods of testing hardness of water

1) Titration

2) Drop weight Test Kits

3) Digital Titration

4) Test strips

5) Colorimetry or Spectrophotometry

6) Ion-selective electrodes

Hardness of water is commonly measured by colorimetric titration with  $\text{Ca}$  or EDTA (Ethylenediamine tetraacetic acid). A titration involves adding indicator and then titrant solution until in small increment to a water sample unit the sample changes colour.

4]

III

Answer the following questions

1] What are different ecosystem of hydrology present in india

⇒ The frame work for ecosystem services has been increasingly used in integrated watershed ecosystem management practices that involve scientists, engineers, managers and policymakers.

The objective of this review is to explore the intimate connections between ecohydrological process and water-related ecosystem services in human dominated ecosystem in the Anthropocene.

We synthesize current literature to illustrate the importance of understanding the ecohydrological process for a currently qualifying ecosystem services under different environment and socio-economic setting and scales.

Our synthesis focuses on managed ecosystem that are dominated by human, and explore how ecological process affect the tradeoffs and synergies of multiple ecosystem services.



We identify research gaps in studying ecological process mainly including energy, carbon, water and nutrient balances. To better assess and quantify ecosystem services that are critical for sustaining natural resources for future generations.

To better assess ecosystem services, future hydrological studies need to better account for the scaling effect of natural and anthropogenic stressors exerted and on evapotranspiration and other water supply and demand processes.

Future studies should focus on the bidirectional interaction between hydrological functions and services and human actions to solve real-world problems such as water shortages, ecological degradation and climate change adaptation.

Among the myriad of services provided by ecosystem hydrological services such as water purification and water supply are considered the key to realizing other ecological services such as drinking water, recreation and human health.

2) Write a note on water quality parameters and their interaction.

-> Water quality parameters include chemical, physical and biological properties and can be tested or monitored based on the desired water parameter of concern.

Parameters that are frequently sampled or monitored for water quality include temperature, dissolved oxygen, pH, conductivity and turbidity. However, water monitoring may also include measuring total algae, TSPs (Ammonia, nitrate, chloride) or laboratory parameters such as BOD, titration.

3 main water quality parameters

- 1) Physical water quality parameter
- 2) Chemical water quality parameter
- 3) Biological water quality parameter

However, there are eight key important characteristics of water quality measurement: temperature, clarity, conductivity, pH, alkalinity, chlorine, hardness, and dissolved oxygen.

Hydrology characterizes the timing, distribution and flow of water across the human and natural landscape.

Water quality describes the condition (physical, chemical and biological) of water with respect to specific use such as culinary water supply & aquatic wildlife & Agriculture.

The WHO guideline for drinking water quality include the following recommended limiting on natural occurring constituents that may have direct adverse health impact

- > Arsenic, 10 µg/L, Barium 10 µg/L, Boron 2000 µg/L

Maintenance of water quality

- 1) Flushing Run cold water taps for two minutes before using water for drinking and cooking
- 2) Coldwater use Donot use hot tap water for drinking and cooking.

water filtering Routinely replace <sup>change</sup> filter cartridges  
House hold plumbing  
Faucet Aerators  
Water heaters

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ವಾಕ್ಯ ಪರಿಷ್ಕರಣೆ, ವಿಷಯ ಪರಿಶೀಲನೆ, ಸಂಕೇತಿಸುವುದು



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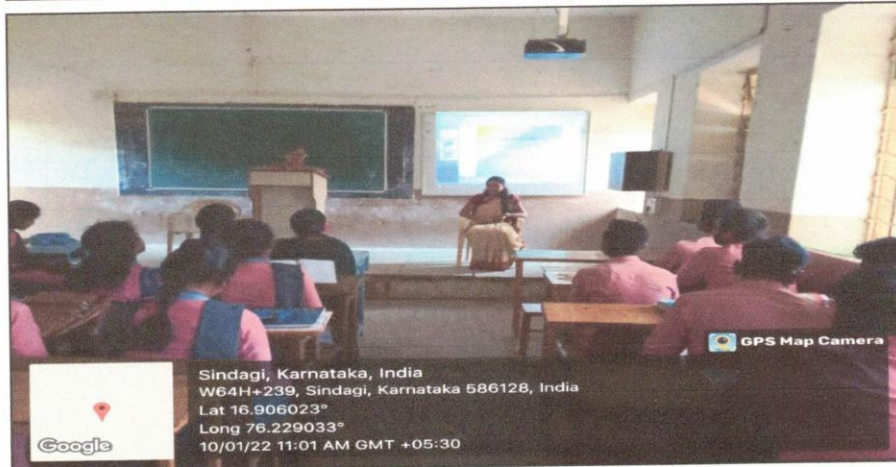
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**DEPARTMENT OF CHEMISTRY**

**WATER ANALYSIS**

**VALEDICTORY OF CERTIFICATE COURSE: 2021-22**



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SUBJECT : CHEMISTRY			B.SC. I SEMESTER										CERTIFICATE COURSE																				
			TOPIC WATER ANALYSIS																														
No.	RegNo.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1	U15NB2150004	BHEEMASHANKAR G RAMASHETTI																															
2	U15NB2150007	MUBEEN BIRADAR																															
3	U15NB2150014	AFRIN AMINSAB KARABANTANALA																															
4	U15NB2150015	ALIYABEGUM SHAIKH																															
5	U15NB2150016	CHANDRASHEKHAR																															
6	U15NB2150019	ABHISHEK RAJAPUT																															
7	U15NB2150028	KAVYA PRAKASH CHOUDHARI																															
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9	U15NB2150031	BHUVANESHWARI NATIKAR																															
10	U15NB2150032	ROOPA PATIL																															
11	U15NB2150033	VINOD DONUR																															
12	U15NB2150034	AISHWARYA S NANDAGERI																															
13	U15NB2150039	VAISHNAVI BASAVARAJ YANKANCHI																															
14	U15NB2150054	LAXMI NIJAPPA DEVARAMANI																															
15	U15NB2150055	MINITA BAJANTRI																															
16	U15NB2150059	PADMAPRASAD BOGAR																															
17	U15NB2150062	PRAJWAL S M																															
18	U15NB2150063	MAHANTESH PATTAR																															
19	U15NB2150064	MAHESH WALI																															
20	U15NB2150075	ASHWINI VAGGAR																															

21	U15NB2150086	ABHISHEK B DEGINAL																															
22	U15NB2150095	NIVEDITA BIRADAR																															
23	U15NB2150103	SHAHEED CHANNUR																															
24	U15NB2150107	BHAGANNA GURANNA SINDAGI																															
25	U15NB2150112	NETRA																															
26	U15NB2150114	ANISA																															
27	U15NB2150117	BHAGYASHREE BIRADAR																															
28	U15NB2150130	SHANTAVEER KHEDAKAR																															
29	U15NB2150144	VANITA KOLJI																															
30	U15NB2150152	SHANTA MATH																															
31	U15NB2150155	SUPRITA BIRADAR																															
32	U15NB2150157	REKHA																															
33	U15NB2150162	SUMAN K R																															
34	U15NB2150167	BHAGIRATHI DESUNAGI																															
35	U15NB2155548	SHANKREMA BIRADAR																															

TOPIC WATER ANALYSIS

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4	U15NB2150015	ALIYABEGUM SHAIKH	AB	AB	AB	AB																												
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8	U15NB2150029	DEVENDRA	AB	AB	AB	AB																												
9	U15NB2150031	BHUVANESHWARI NATIKAR	AB	AB	AB	AB																												
10	U15NB2150032	ROOPA PATIL	AB	AB	AB	AB																												
11	U15NB2150033	VINOD DONUR	AB	AB	AB	AB																												
12	U15NB2150034	AISHWARYA S NANDAGERI	AB	AB	AB	AB																												
13	U15NB2150039	VAISHNAVI BASAVARAJ YANKANCHI	AB	AB	AB	AB																												
14	U15NB2150054	LAXMI NIJAPPA DEVARAMANI	AB	AB	AB	AB																												
15	U15NB2150055	MINITA BAJANTRI	AB	AB	AB	AB																												
16	U15NB2150059	PADMAPRASAD BOGAR	AB	AB	AB	AB																												
17	U15NB2150062	PRAJWAL S M	AB	AB	AB	AB																												
18	U15NB2150063	MAHANTESH PATTAR	AB	AB	AB	AB																												
19	U15NB2150064	MAHESH WALI	AB	AB	AB	AB																												
20	U15NB2150075	ASHWINI VAGGAR	AB	AB	AB	AB																												

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22	U15NB2150095	NIVEDITA BIRADAR	AB	AB	AB	AB																													
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29	U15NB2150144	VANITA KOLLI	AB	AB	AB	AB																													
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Certificate Course-2021-22

“ WATER ANALYSIS ”

Statement of marks

SL.NO	REGISTER NUMBER	STUDENT NAME	THEORY 50M	PRACTICAL 50M	TOTAL 100	REMARK
1	U15NB21S0004	BHEEMASHANKAR G RAMASHETTI	35	45	80	PASS
2	U15NB21S0007	MUBEEN BIRADAR	36	42	78	PASS
3	U15NB21S0015	ALIYABEGUM SHAIKH	32	41	73	PASS
4	U15NB21S0014	AFRIN AMINSAB KARABANTANALA	36	46	82	PASS
5	U15NB21S0016	CHANDRASHEKHAR	38	41	79	PASS
6	U15NB21S0031	BHUVANESHWARI NATIKAR	31	42	73	PASS
7	U15NB21S0028	KAVYA PRAKASH CHOUDHARI	30	36	66	PASS
8	U15NB21S0032	ROOPA PATIL	34	32	66	PASS
9	U15NB21S0029	DEVENDRA	35	35	70	PASS
10	U15NB21S0034	AISHWARYA SNANDAGERI	45	47	92	PASS
11	U15NB21S0039	VAISHNAVI BASAVARAJ YANKANCHI	41	32	73	PASS
12	U15NB21S0054	LAXMI NIJAPPA DEVARAMANI	42	31	73	PASS
13	U15NB21S0055	MINITA BAJANTRI	40	36	76	PASS
14	U15NB21S0059	PADMAPRASAD BOGAR	33	35	68	PASS
15	U15NB21S0062	PRAJWAL S M	38	39	77	PASS
16	U15NB21S0063	MAHANTESH PATTAR	32	32	64	PASS
17	U15NB21S0064	MAHESH WALI	36	30	66	PASS
18	U15NB21S0071	GEETA HANAMANT TADALAGI	39	30	69	PASS
19	U15NB21S0075	ASHWINI	30	31	61	PASS
20	U15NB21S0086	ABHISHEK B DEGINAL	31	31	62	PASS
21	U15NB21S0095	NIVEDITA BIRADAR	31	34	65	PASS
22	U15NB21S0103	SHAHEED	31	35	66	PASS
23	U15NB21S0107	BHAGANNA GURANNA SINDAGI	30	36	66	PASS
24	U15NB21S0112	NETRA	32	31	63	PASS
25	U15NB21S0117	BHAGYASHREE BIRADAR	35	32	67	PASS
26	U15NB21S0130	SHANTAVEER KHEDAKAR	38	33	71	PASS
27	U15NB21S0144	VANITA	33	33	66	PASS
28	U15NB21S0152	SHANTA MATH	39	37	76	PASS
29	U15NB21S0153	SHRUTI BASAVARAJ PATIL	34	42	76	PASS
30	U15NB21S0155	SUPRITA BIRADAR	37	41	78	PASS
31	U15NB21S0157	REKHA	42	30	72	PASS
32	U15NB21S0162	SUMAN K R	41	38	79	PASS
33	U15NB21S0167	BHAGIRATHI DESUNAGI	43	33	76	PASS

  
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IQAC Initiative

DEPARTMENT OF CHEMISTRY

**CERTIFICATE**

This is to certify that Kumar/ Kumari.....  
of B.Sc. has successfully completed Certificate Course on “ **WATER ANALYSIS** ” during  
the year.....

HOD

Coordinator IQAC

Principal