



SPVVS

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



BROCHURE



DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE

2019-20

Title : WATER ANALYSIS

DATE: 01/08/2019 TO 30/10/2019

**Inauguration
01/08/2019
Time : 10:30 AM**

**Valedictory
04/11/2019
Time : 10:30 AM**

Singalane
H.O.D.

Dept. of Chemistry
G. P. Porwal Arts, Commerce &
V. V. Salimath Science College,
Sindgi

Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. Coll
SINDGI

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



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 COURSE

WATER ANALYSIS

OFFERED BY

**DEPARTMENT OF
CHEMISTRY**

COURSE CODE

CCCHEMWAT 19-20

COURSE COORDINATOR

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

DEPARTMENT OF CHEMISTRY CERTIFICATE COURSE DETAILS

INSTRUCTIONAL DESIGN

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 2019-20. The continuation of these courses will depend on interest and participation of students.

ELIGIBILITY

All student 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 ANALYSIS

- 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-co₂ hardness, PH-methods of testing.

15 Hr

BOARD OF STUDIES

- | | |
|-------------------------|------------------------|
| 1. Prof. R.S.Bhooshetti | : Chairman & Principal |
| 2. Prof. S.S.Mangalore | : coordinator |
| 3. Miss.P.S.Biradar | : Member |
| 4. Mr.S.S.Mamani | : Member |

THANK YOU


H.O.D.
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SINDGI-586128.


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


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 523

SPVVS

G.P.PORWAL ARTS, COMMERCE AND V.V. SALIMATH SCIENCE COLLEGE

SINDGI-586128 DIST: Bijapur

Affiliated to Rani Channamma University- Belagavi(Karnataka State)

e-mail:gppprincipal@gmail.com Web:www.gppcollegesindgi.org Ph:08488-221244

Department of Chemistry

Certificate Course-2019-20

" Water Analysis "

Sl.No	Name of the students	Class	Signature
1	Shantala Chitpur	B.Sc I sem	Stt
2	Nikhita Biradar	B.Sc I sem	Nikhita
3	Pratibha kale	B.Sc I sem	Pratibha
4	Raju Kesaratti	B.Sc I sem	Raju
5	Gajanan Pawar	B.Sc I sem	Gajanan
6	Roopa Biradar	B.Sc I sem	Roopa
7	Snehabanjari	B.Sc I sem	Sneha
8	Soumyashree Rampur	B.Sc I sem	Soumyashree
9	Kaveri Itaganti	B.Sc I sem	Kaveri
10	Manoj Godekar	B.Sc I sem	Manoj
11	Bhagyashree Koli	B.Sc I sem	Bhagyashree
12	Rani Biradar	B.Sc I sem	Rani
13	Padmashree Bogar	B.Sc I sem	Padmashree
14	Laxmi Kallure	B.Sc I sem	Laxmi
15	Pooja Hiremath	B.Sc I sem	Pooja
16	Pooja Pawade	B.Sc I sem	Pooja
17	Sahana Pawar	B.Sc I sem	Sahana
18	Doulratray Gobbur	B.Sc I sem	Doulratray
19	Nandeesh Hoosamani	B.Sc I sem	Nandeesh
20	Vijayakumar Kudagi	B.Sc I sem	Vijayakumar
21	Praveen Marathe	B.Sc I sem	Praveen
22	Rahul Hadapad	B.Sc I sem	Rahul
23	Narasappa Shirashyad	B.Sc I sem	Narasappa
24	Vaibhav Malli	B.Sc I sem	Vaibhav
25	Davulmalik Hipparagi	B.Sc I sem	Davulmalik
26	Vijayalaxmi Patil	B.Sc I sem	Vijayalaxmi
27	Mamata Shree	B.Sc I sem	Mamata
28	Archana Natikar	B.Sc I sem	Archana
29	Pooja Adaki	B.Sc I sem	Pooja
30	Kavyashree Ankalkoti	B.Sc I sem	Kavyashree

31. Asha Teratagi

32. Asha Mureli

Principal,

Bsc I sem

BSC I sem

Coordinator IQAC

Ashu

Amruti

Shargale

H.O.D.

Dept. of Chemistry

G.P. Porwal Arts & Comm

V.V. Salimath Sc. College

SINDGI-586128

College Code: 523

G.P. Porwal Arts, Comm &

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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE
SINDGI-586128 DIST: Bijapur

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE 2019-20

"WATER ANALYSIS"

STATEMENT OF MARKS 2019-20

SL.NO	NAME OF THE STUDENT	CLASS	THEORY 50 M	PRACTICAL 50 M	TOTAL 100 M	REMARK
1	Shantala Chitpur	B.Sc I sem	42	38	80	PASS
2	Nikita Biradar	B.Sc I sem	38	45	83	PASS
3	Pratibha Kale	B.Sc I sem	35	45	80	PASS
4	Raju Kesaratti	B.Sc I sem	40	42	82	PASS
5	Gajanan Pawar	B.Sc I sem	38	41	79	PASS
6	Roopa Biradar	B.Sc I sem	39	40	79	PASS
7	Sneha Bajantri	B.Sc I sem	42	38	74	PASS
8	Soumyashree Rampur	B.Sc I sem	35	39	74	PASS
9	Kaveri Itangi	B.Sc I sem	40	37	77	PASS
10	Manoj Godekar	B.Sc I sem	42	32	74	PASS
11	Bhagyashree Koli	B.Sc I sem	46	38	84	PASS
12	Rani Biradar	B.Sc I sem	47	32	79	PASS
13	Padmashree Bogur	B.Sc I sem	38	37	75	PASS
14	Laxmi Kallur	B.Sc I sem	35	42	77	PASS
15	Pooja Hirremath	B.Sc I sem	32	43	75	PASS
16	Pooja Pawade	B.Sc I sem	35	42	77	PASS
17	Sahana Pawar	B.Sc I sem	40	35	75	PASS
18	Doulatory Gobbur	B.Sc I sem	44	44	88	PASS
19	Nandeesh Hoosamani	B.Sc I sem	42	39	81	PASS
20	Vijaykumar Kudagi	B.Sc I sem	40	40	80	PASS
21	Praveen Maratha	B.Sc I sem	35	44	79	PASS
22	Rahul Hadapad	B.Sc I sem	36	42	78	PASS
23	Narasappa Shirashyad	B.Sc I sem	35	40	75	PASS
24	Vaibhav Malli	B.Sc I sem	46	35	81	PASS
25	Davulmalik Hipparagi	B.Sc I sem	45	35	80	PASS
26	Vijaylaxmi Patil	B.Sc I sem	38	35	73	PASS
27	Mamatashree	B.Sc I sem	41	35	76	PASS
28	Archana Natikar	B.Sc I sem	40	40	80	PASS
29	Pooja Adki	B.Sc I sem	38	38	76	PASS
30	Kavyashree Akkalkoti	B.Sc I sem	39	39	78	PASS

31	Asha Jeratagi	B.Sc I sem	37	42	79	PASS
32	Asha M	B.Sc I sem	32	35	67	PASS
33	Mahantesh D	B.Sc I sem	46	35	81	PASS
34	Manjula Naikodi	B.Sc I sem	39	38	77	PASS
35	Megha Hiremath	B.Sc I sem	37	46	73	PASS


H.O.D.
Dept. of Chemistry
G. P. Porwal Arts & Science College, Sindagi
V. V. Salimath Science College
SINDAGI-596 100


Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDAGI-596 100


Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College,
& P. G. Centre, SINDAGI

Name of the Course: B.Sc 1st Sem

Certificate Course Water Analysis 2019-20

Sub: Chemistry

Department of Chemistry

Name of the Course: B.Sc 1st Sem										Certificate Course Water Analysis 2019-20																		Sub: Chemistry												
Department of Chemistry										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
S. NO.	Student Name																																							
1	Shantala Chitpur		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
2	Nikita Biradar		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
3	Pratibha Kale		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		
4	Raju Kesaratti		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
5	Gajanan Pawar		G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G			
6	Roopa Biradar		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
7	Sneha Bajantri		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
8	Sourmyashree Rampur		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
9	Kaveri Itangi		K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K			
10	Manoj Godekar		M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
11	Bhagyashree Koli		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B			
12	Rani Biradar		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
13	Padmeshree Bogur		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			
14	Laxmi Kallur		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
15	Pooja Hirremath		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	Pooja Pawade		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			
17	Sahana Pawar		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
18	Doulatory Gobbur		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D			
19	Nandeesh Hoosamani		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		

Page 1 of 3

S. NO.	Student Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
20	Vijaykumar Kudagi	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
21	Praveen Maratha	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		
22	Rahul Hadapad	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
23	Narasappa Shirashyad	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
24	Vaibhav Malli	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
25	Davulmalik Hipparagi	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
26	Vijaylaxmi Patil	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
27	Mamataashree	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
28	Archana Natikar	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	A	A	A	A	A	A	
29	Pooja Adki	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	
30	Kavyashree Akkalkoti	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	
31	Asha Jeratagi	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	A	A	A	A	A	A	A
32	Asha M	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	A	A	A	A	A	A	A
33	Mahantesh D	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
34	Manjula Naikodi	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
35	Megha Hiremath	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
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Page 2 of 3



S.P.V.V.S'S

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

Affiliated to Rani Channamma University, Belagavi

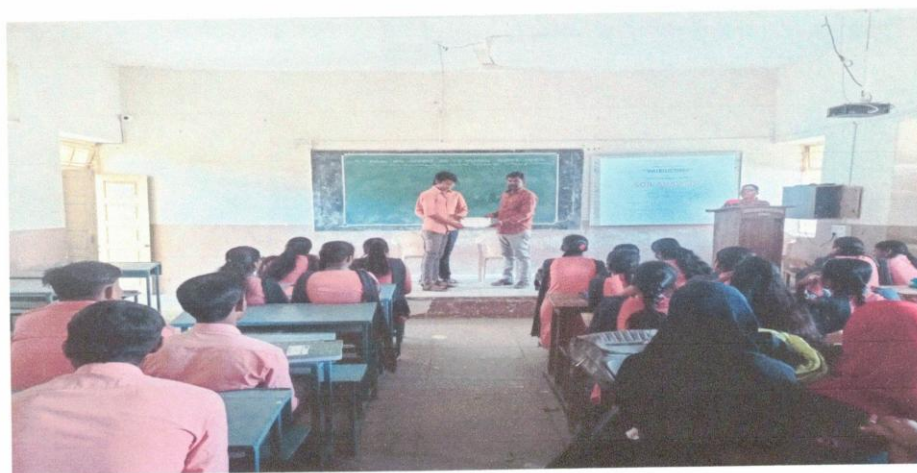
Accredited at 'B' Grade (2.42 CGPA) by NAAC

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

DEPARTMENT OF CHEMISTRY

Water ANALYSIS

VALEDICTORY OF CERTIFICATE COURSE: 2019-20



Angelina
H.O.D.

Dept. of Chemistry
G.P. Porwal Arts & Commerce, &
V.V. Salimath Science College
SINDGI - 586 128

[Signature]

Coordinator IQ
G.P. PORWAL ARTS, C
V.V. SALIMATH Sc. Coll
SINDGI-586128

[Signature]

Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128, College Code: 1

It is informed to the faculty members of certificate course in chemistry subject that the meeting is held on 13/7/19 with following agenda

1) Intimation of the certificate course of to the students.

2) syllabus and workload distribution.

3)

4) Commencement of classes

5) B.O.D. Formation

Coordinator IQAC

Principal,

Shangalau
H.O.D.

G. P. Porwal Arts, Comm &

G. P. Porwal Arts, Comm &

Dept. of Chemistry

V. V. Salimath Sc. College,

V. V. Salimath Sc. College

e. &

SINDGI-586128.

SINDGI-586128. College Code: 524V

Salimath Science College

1) principal - R.S. Bhooshetti

2) Smt S.S. Mangalau Shangalau

3) P.S. Biradai Biradai

4) B.H. Sungar B.H.

5) S.S. Mamane Mamane

Meeting resolutions

Meeting was conducted on 13/7/19 and following resolutions were undertaken.

1) Intimation of certificate course to the students through notice

2) syllabus and workload was distributed among the teaching faculty members.

3) Application form will be given to the interested students and filled forms are collected

4) Theory classes will be commencing from

Accordingly Time Table was

prepared.

B.O.D. Formation

Shangalau
H.O.D.

Members

1) principal RSB

2) S.S. Mangalau

Shangalau

Dept. of Chemistry
G. P. Porwal Arts & Comm. &

V. V. Salimath Science College

Coordinator IQAC

Principal,

G. P. Porwal Arts, Comm &

G. P. Porwal Arts, Comm &

Notice

It is informed to the faculty members of certificate course in chemistry subject the meeting is held on ²³⁻⁹⁻¹⁹ with following agenda.

- 1) Conducting Theory and practical Exams.
- 2) Informing students about Examination
- 3) Evaluation of papers
- 4) Display of Marks
- 5) Announcement of marks.
- 6) Distribution of certificate to members 21/9/19

Members

- 1) principal R.S. Bhooshetti
- 2) S.S. Mangalare
- 3) P.S. Biruday
- 4) B.H. Sunagar
- 5) S.S. Mamane

S. Mangalare
H.O.D.

Dept. of Chemistry

G. P. Porwal Arts & Com.

Salimath Science Coll.
SINDGI-586128

B.H.

S. Mamane

Meeting resolutions

Coordinator IQAC

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

Principal,

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

SPVVSS

**G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE AND
BHASKARACHARYA-II P.G CENTRE SINDGI – 586 128**

Affiliated to Rani Channamma University Belagavi (Karnataka State)

Accredited at B (2.42 CGPA) by NAAC

From:
The HOD,
Department of Chemistry
GPP & VVS College Sindgi
Date: 26-07-2019

To,
The Principal,
GPP & VVS College,
Sindgi

Sub: Permission to start certificate course on "Water Analysis"

Respected Sir,

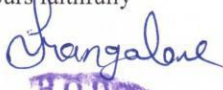
We the faculty members of Chemistry Department have decided to start Certificate Course on "Water Analysis" for B.Sc. I Sem students. Hence, we kindly request you to give the permission to start the Certificate Course for the academic year 2019-20. We hope that the authority will consider the request and oblige.

Place: Sindgi
Date: 26-07-2019


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


Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College
& P. G. Centre, SINDGI

Yours faithfully


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

Affiliated to Rani Channamma University, Belagavi

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

CERTIFICATE COURSE FOR B.Sc 1st SEMESTER STUDENTS

DEPARTMENT OF CHEMISTRY

YEAR:2019-20

SUBJECT: WATER ANALYSIS

MEMBERS OF BOARD OF STUDIES (BOS)

SI NO	List of BOS Members
1	Prof.R.S.Bhooshetti Principal
2	Prof. smt S.S. Mangalore [HOD]
3	Miss.P.S.Biradar Lecturer
4	Miss. Vidya.Ganganalli Lecturer (C.M Managuli College , Sindagi)
5	Kumar. S.S.Mamani Lecturer

H.O.D.

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

Coordinator IQAC

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V. V. Salimath Sc. College
SINDGI-586128. College Code: 1

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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE
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Date:20/08/2020

Miss.Vidya .Ganganalli
Deapartament of chemistry
C.M.Managuli college
Sindagi 586128, Dist Vijayapur

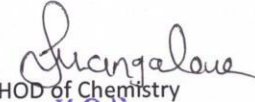
Dear sir/madam

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 2020/21.Kindly accept the same do need the needful.

Thanking you


Principal,
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Certificate course –water analysis

Summary report

- Analysis There is a common requirement in water to separate the dissolved o suspended component in the sample before analysis.
- The results of tests carried out on sample collected from water treatement
- This is used to chemical and physical methods to determine the content of various chemical components in water

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Objectives

- To know the quality of water in villages
- To check the probability of supplied water.
- To evaluate the physico- chemical characteristics of water sample.
- To find out the polluted ground water areas.
- To search and suggest the remedial measures for objectionable parameter

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Program outcomes

- Understand the difference between acute and chronic drinking water.
- Identify the typical sources of elevated nitrate in source water.
- To understand the quality of water.
- To evaluated the physical and chemical character of water
- To find the hardness of water and PH methods of testing *water*

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DEPARTMENT OF CHEMISTRY

APPLICATION FORM

Name of the Course: Water analysis

Year of the Course: 2019-20

Semester: B.Sc I semester



:General Information of the Candidate:

Name of the student: Doulathray R. Gobbur

Sex: Male

Date of Birth: 26/07/2000

Caste: II A

Annual Income: 16,000

Permanent Address: At, post Kanmeshwar, Tal: Jevargi
Dist: Kalburgi

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 theory classes in the college, in case shortage of 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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Dept. of Chemistry
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Signature of the Candidate

Principal,

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Department of Chemistry

Circular

It is hereby informed to all the students of B.Sc. I Semester that Certificate course on “Water Analysis “will be started in our college from 1-08-2019. Hence interested students may apply on or before 25-07-2019.

Contact:

Prof.(Smt).S.S.Mangalore

Prof. S.S.Mamane


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**Department of Chemistry
Certificate Course**

THEORY AND PRACTICAL TIME TABLE: 2019-20

DAY	TIME		NAME OF THE FACULTY
	Theory	Practical	
Monday	2.00pm - 3.00pm		Prof.(Smt).S.S.Mangalore Prof. B.H.Sunagar
Tuesday	2.00pm - 3.00pm		Prof. S.S.Mamane Prof: A.N.Mali
Friday		2.00pm - 5.00pm	Prof.(Smt).S.S.Mangalore Prof. B.H.Sunagar
Saturday		2.00pm - 5.00pm	Prof. S.S.Mamane Prof: A.N.Mali

Date: 26/7/2019


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**Department of Chemistry
Certificate Course
Water Analysis
NOTICE**

It is hereby informed to all the students of B.Sc I Sem who have enrolled for Certificate Course should attend Theory and Practical examination as per the following Time Table.

Time- Table for Theory and Practical Examination

	Date	Time
THEORY	3/10/2019	9.00-11.00am
PRACTICAL	Ist Batch - 14/10/2019	9.00-12.00pm
	IInd Batch - 14/10/2019	1.00 - 4.00pm

Date: 25/9/2019


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Department of Chemistry

Syllabus for Water Analysis

Unit: 1

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

Water Quality Water quality parameters and their interaction- physical and chemical characteristics - turbidity, color - temperature - chemical constituents, taste, color, acidity, alkalinity - CO_2 , hardness, pH - Methods of testing.



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Department of Chemistry

Certificate Course-2019-20

"Water Analysis"

Sl.No	Name of the students	Class	Signature
1	Shantala Chitpur	B.Sc I sem	Stt
2	Nikhita Biradar	B.Sc I sem	Nikhita
3	Pratibha kale	B.Sc I sem	Pratibha
4	Raju Kesaratti	B.Sc I sem	Raju
5	Gajanan Pawar	B.Sc I sem	Gajanan
6	Roopa Biradar	B.Sc I sem	Roopa
7	Snehabajantri	B.Sc I sem	Sneha
8	Soumyashree Rampur	B.Sc I sem	Soumyashree
9	Kaveri Itaganti	B.Sc I sem	Kaveri
10	Manoj Godekar	B.Sc I sem	Manoj
11	Bhagyashree Koli	B.Sc I sem	Bhagyashree
12	Rani Biradar	B.Sc I sem	Rani
13	Padmashree Bogar	B.Sc I sem	Padmashree
14	Laxmi Kallure	B.Sc I sem	Laxmi
15	Pooja Hiremath	B.Sc I sem	Pooja
16	Pooja Pawade	B.Sc I sem	Pooja
17	Sahana Pawar	B.Sc I sem	Sahana
18	Doulratray Gobbur	B.Sc I sem	Doulratray
19	Nandeesh Hoosamani	B.Sc I sem	Nandeesh
20	Vijayakumar Kudagi	B.Sc I sem	Vijayakumar
21	Praveen Marathe	B.Sc I sem	Praveen
22	Rahul Hadapad	B.Sc I sem	Rahul
23	Narasappa Shirashyad	B.Sc I sem	Narasappa
24	Vaibhav Malli	B.Sc I sem	Vaibhav
25	Davulmalik Hipparagi	B.Sc I sem	Davulmalik
26	Vijayalaxmi Patil	B.Sc I sem	Vijayalaxmi
27	Mamatashree	B.Sc I sem	Mamatashree
28	Archana Natikar	B.Sc I sem	Archana
29	Pooja Adaki	B.Sc I sem	Pooja
30	Kavyashree Ankalkoti	B.Sc I sem	Kavyashree

314. Asha Teratagi
324. Asha Mulli
Principal,

BSc I sem
Coordinator IQAC

Ashlee

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Mahanikesh

2019-20

Q. No. Marks

11

Name : Doulatray . R. Gobbur

Class : B.Sc I Sem

U.No : SJ928831

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50
Jungale

I Answer the following Questions

01 What is Hydrology ?

⇒ It is the Scientific Study of the management movement and distribution of water on Earth

02 What is Ecosystem ?

⇒ Ecosystem is a geographic area where Plants animals and other organisms as well as weather and landscape work together to form a bubble of life.

03 What is turbidity ?

⇒ The cloudiness or haziness of a fluid caused by suspended solids that are usually invisible to naked eyes is known as turbidity.

04 What is the pH of Water ?

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

Q5. What is the meaning of alkalinity?

⇒ Alkalinity refers to 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

Q1. What are physical and chemical characteristics of water?

Physical characters of water :-

Color :- Pure water is colorless. Colored water can indicate pollution. Colour can also show organic substance. The maximum acceptable level for the color of drinking water is 15 True color unit.

Turbidity :- Pure water is clear and does not absorb light. If turbidity appears in the water it may indicate water pollution.

Taste and odour :- Pure water is always tasteless and odourless. If any type of taste and smell is present it may indicate water pollution.

Temperature :- The temperature is not directly used to evaluate whether water is drinkable.

or not. However, in natural water systems like lakes and water, the temperature is a significant physical factor that determines water quantity.

Chemical properties of Water :-

pH - pH of water is measured between 0 and 14 to determine how acidic or alkaline it is. Measurement is conducted using a logarithmic scale.

Dissolved oxygen - is the level of free, non-compound oxygen present in water or other liquids. It is an essential parameter in assessing water quality because of its influence on the organisms living within a body of water.

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02. What are the methods of testing of pH of Water?

* Scientists use a pH meter to measure pH levels in the water. The water testing takes place on-site using a relatively small, portable meter or in a lab using a larger benchtop meter. The benchtop meter has a cup that holds the water sample and a glass probe with two specialized electrodes.

* The pH electrode measures the acidity of the water sample, while the reference electrode is

immersed in a liquid with a fixed acidity

* After the reading from the pH electrode is compared with the reading from the reference electrode, the meter converts the voltage to a pH level

4 * A pH meter provides a much more accurate reading than a test strip kit and prevents the mess associated with having to use droppers

* Calibration before testing water samples ensures that the pH meter will provide accurate readings and test results

03. What are the methods of testing of hardness of water?

Hardness is defined as a measure of how well materials resist localized deformation, such as impacts, indents or scratches.

Although it is well-understood physical property, it is much more complex than other characteristics in that it is relative to different types of loading forces

1. Rockwell Hardness Testing

First developed over one hundred years ago

The Rockwell hardness test is a rapid hardness testing method primarily used for quality assurance and production control.

2. Brinell Hardness Testing

Like the Rockwell scale, Brinell hardness testing typically concerns larger loads approaching a nominal maximum force of 3,000 kgf which requires a larger, harder indenter tip.

3. Knoop Hardness Testing

Knoop hardness testing was developed specifically to enable characterizations of brittle, or thin samples like ceramics or surface coatings. The heavy loads and robust, spherical indenter of the previous two hardness testing methods were unsuitable for such fragile materials.

4. Vickers Hardness Testing

Finally, Vickers hardness testing is most like Knoop microhardness in that it involves loads of no greater than 1 kgf and eschews the ball-shaped indenters of Production Scale hardness testers. A Vickers probe is a uniform pyramid which is pressed into a surface and allowed to dwell for a pre-defined period before the probe is removed.

5. Hardness Testing with clemex

Clemex is One of the industry leading Suppliers of intelligent microscopy solution providing turnkey systems of dynamic Hardness testing.

04. What are statues of Water quality in India?

Water quality refers to the chemical, Physical and biological characteristics of Water based on standard of its usage.

Drinking water is water intended for human consumption for drinking and cooking Purposes from any sources.

It includes water (treated or untreated) supplied by any means for human consumption.

The quality standard for drinking water in india is Prescribed by Bureau of Indian Standards laid down IS 10500-2012

The Water quality standard are provisions of State, territorial, authorized tribal or Federal law approved by EPA that describe the desired condition of a water body and the means by which that Condition will be protected or achieved

There are five water quality parameters : pH, biological oxygen demand (BOD), Suspended Solids (SS), dissolved oxygen (DO), and total coliform bacteria

There are eight key important characteristics of a water quality measurement: temperature, clarity, conductivity, pH, alkalinity, Chlorine hardness and dissolved oxygen

Water quality measurements are taken by cottagers, boaters and fishers, students and community members taking action. We can equip you with everything you need to get testing.

In this article, we will briefly explore each as well as find out the tools and resources.

III Answer the following questions.

01. What are the different ecosystem of hydrology presenting in India?

⇒ The framework for Ecosystem Services has been increasingly used in integrated watershed Ecosystem management practices that involve Scientists, Engineers, managers and Policy makers.

The objective of this review is to explore the

Intimate Connections between ecohydrological processes and water-related Ecosystem Services in human dominated Ecosystem in the Anthropocene.

We Synthesize current literature to illustrate the importance of understanding the ecohydrological processes for accurately quantifying ecosystem services under different Environmental and Socioeconomic Setting and Scales.

Our synthesis focuses on managed ecosystems that are dominated by humans and explores how ecological processes affect the tradeoffs and synergies of multiple ecosystem services.

We identify research gaps in studying ecological processes 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 ecohydrological studies need to better account for the scaling effect of natural and anthropogenic stressors exerted on evapotranspiration and other water

Supply and demand processes.

Future studies should focus on the bidirectional interactions 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 ecosystems, 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.

02. 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 parameters 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 ISES (ammonia, nitrate, chloride) or laboratory parameters such as BOD, titration

3 main water quality parameters

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

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

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9 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 or agriculture

The WHO Guideline for drinking water quality include the following recommended limits on naturally occurring constituents that may have direct adverse health impact

Arsenic, $10 \mu\text{g/L}$, Barium $10 \mu\text{g/L}$, Boron $2400 \mu\text{g/L}$.

Maintains of Water Quality

- 1) Flushing. Run cold water taps for two minutes before using water for drinking and cooking
- 2) Cold water use. Do not use hot tap water for drinking and cooking

Water filters. Routinely replace filter cartridges

Household Plumbing

Faucet Aerators

Water heaters.

Shangalore

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State: Karnataka



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