



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
BLDE New Campus, Shri B. M. Patil Road, Vijayapur-586103
Accredited with CGPA of 2.99 at 'B' Grade in 4th Cycle by NAAC
(Affiliated to Rani Channamma University, Belagavi)



Department of Chemistry

Value Added Course in Soil and Water Analysis

2023 -24

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Date : 10-11-2023

To
The Principal
S.B Arts and K.C.P Science College Vijayapur

Subject: Permission for conducting value added course in Chemistry
Department (Soil and Water Analysis) for B.Sc II SEM students.

Respected Madam,

We are planning to conduct value added course entitled "Soil and Water Analysis" for our B.Sc . II SEM students. The course will be benefitting the students to bridge curriculum gap between first year learning and higher semesters prerequisite by training them on Soil and Water Analysis Herewith, we kindly request you to grant permission for conducting the same.

Objective: To learn about the chemistry and composition of soil and water. to develop a basic comprehension regarding soil testing in the students.

Outcomes : Gain knowledge on soil and water quality parameters. Be able to analyse soil and water samples in laboratory

Name of the department: Chemistry

Title of the course: Soil and Water Analysis

Course code: 23UGVACHE02

Semester: II SEM

Duration of the course: 30 Hours

Course Coordinator: Prof. Vinod Devannavar

Type of Assessment: Theory 50 marks

Thanking you


HOD

Department of Chemistry
S.B.Arts & K.C.P.Science College,
Vijayapur.


IQAC Coordinator
IQAC, S.B.Arts & K.C.P.Science College,
Vijayapur.


Principal
Principal,
S.B.Arts & K.C.P. Science College,
VIJAYAPUR.

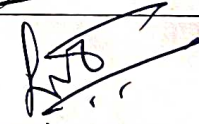
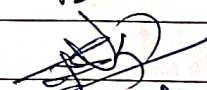
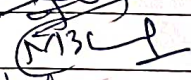
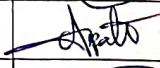
**B.L.D.E ASSOCIATION'S
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DEPARTMENT OF CHEMISTRY**

The meeting of value added course committee for the academic year 2023-24 was held on 08/01/2024 in the chemistry department to discuss on the agenda

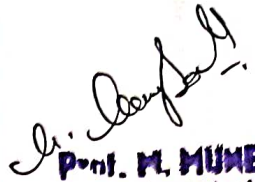
The detail information about value added course was given below

Name of the department: Chemistry
Title of the course: Soil and water analysis
Course code: 23UGVACHE02
Semester: II sem
Duration of the course: 30 Hours
Course Coordinator: Dr. S.D.Lamani
Type of Assessment: 50 Marks theory examination

The following value added course committee members were present

Sl.No	Name of the member	Designation	signature
1.	Dr R.M.Mirdhe	Principal	
2.	Dr, P.S.Patil	IQAC Coordinator	
3.	Dr Maheshkumar K	NAAC Coordinator	
4.	Dr. S.D.Lamani	HOD of Chemistry and Course Coordinator	
5.	Dr. S.N.Unki	Member	
6.	Smt Malati Chanagond	Member	
7.	Prof. Anil Patil	Member	
8.	Mr. Vinod Devannavar	Member	

II EXTERNAL MEMBERS

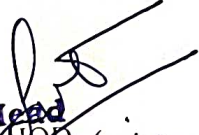
SI No	Name of member	Designation	Signature
1	Prof. M.Muneer Saheb Associate professor and HOD, Anjuman Arts, Science, Commerce and PG Studeis in English, Vijayapur.	Member	 Prof. M. MUNEEER SAHEB Department of Chemistry Anjuman Degree College, VIJAYAPUR - 586101

Agenda:

- 1) To discuss about introduction of value added course for UG Chemistry students
- 2) Approval of a syllabus of the value added course.

Proceeding:

1. The meeting of value added course for the academic year 2023-24 started at 11am in presence of principal.
2. The HOD of Chemistry department welcomes all the members of value added course committee.
3. The meeting was started with the discussion of the agenda
4. The meeting concluded with the approval of the syllabus of value added course for B.Sc. students
5. The meeting was ended with vote of thanks by the chairman to all the members present in the meeting.


Head
Department of Chemistry
S.B.Arts & K.C.P.Science College,
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Date: 27-05-2024

Notice

Department of Chemistry

The theory classes for the “**Value Added Course in “Soil and Water Analysis”**”. will commence from 01-June-2024. The students, who have enrolled should note the same and attend the classes as per time table displayed on notice board.

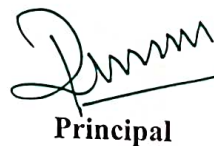


**HOD
Head**

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**IQAC
IQAC, Co-ordinator**
S.B.Arts & K.C.P.Science College,
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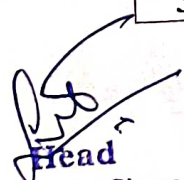
Department of Chemistry



Value Added Course in Soil and Water Analysis

Student List -2023-24

Sl No	UUCMS No	NAME OF THE STUDENT
1	U15KM23S0131	SUDEEP SURESH RACHAGOND
2	U15KM23S0132	ANITA G ANKALAGI
3	U15KM23S0133	JYOTI KOTIHAL
4	U15KM23S0134	RASMI VAGGI
5	U15KM23S0135	MALLAPPA S VAGGERI
6	U15KM23S0138	ANKITA
7	U15KM23S0141	VIJALAXMI GUNNAPUR
8	U15KM23S0151	REKHA MARADI
9	U15KM23S0154	ASHWINI ISHWARALING KALAGHATAGI
10	U15KM23S0165	RASHMI RAJENDRA MEDEDAR
11	U15KM23S0167	JYOTI DATTATREYA GANIGER
12	U15KM23S0168	VILASMATI BIRADAR
13	U15KM23S0169	PRIYA RATHOD
14	U15KM23S0172	PRATEEK BIRADAR
15	U15KM23S0179	SHIVANAND GANGAPPA NAYAK
16	U15KM23S0182	SHIVANAND SABU TORAVI
17	U15KM23S0183	SHABEENA REHAMANSAB CHAPPARBAND
18	U15KM23S0173	SACHIN BIRADAR
19	U15KM23S0199	PREETI A KOLUR
20	U15KM23S0201	CHAITRA DONAJ
21	U15KM23S0202	SHILPA YANKANNA KURI
22	U15KM23S0206	VIDYASHREE KERUR
23	U15KM23S0136	GURUNATH MASALI
24	U15KM23S0210	AKSHATA ASHOK METRI
25	U15KM23S0211	PALLAVI SATAYYA MATHAPATI
26	U15KM23S0213	BHAGYASHREE SURESH CHOUDHARI
27	U15KM23S0218	BASAYYA REVANAYYA CHIKKAPATTA
28	U15KM23S0127	GURURAJ P RATHOD
29	U15KM23S0220	M RAKSHITA
30	U15KM23S0223	SRUSHTI BASAVARAJ GUBBI


Head

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Department of Chemistry



Value Added Course 2023-24

Title of the Course: "Soil and Water Analysis"

LIST OF FACULTY

1. Dr. S. D. Lamani
2. Dr. S. N. Unki
3. Smt. Malati Chanagond
4. Prof. Anil Patil
5. Mr. Vinod Devannavar



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Department of Chemistry



Value added Course 2023 -24

Subject Code : 23UGVACHE02

Course Name: Soil and Water Analysis

Syllabus

hrs-30

Unit 1: Soil analysis

3 hours

Introduction to soil analysis, components of soil, physical and chemical properties of soil, importance of soil analysis.

Unit 2: Water analysis

3 hours

Chemistry and composition of water, properties of water, water pollution and sources of pollution, water quality parameters, importance of water analysis for environment.

Unit 3: Sample preparation of soil

4 hours

Methods of soil sample collection and processing, storage of sample, precautions during the process.

Unit 4: Instruments for soil and water analysis

8 hours

Brief study on instruments required for analysis: pH Meter, Conductivity meter, UV-Spectrophotometer, Flame photometer, Atomic Absorption Spectrophotometer, use of water testing kit, Kjeldahl's Assembly for determination of nitrogen.

Unit 5: Hands on training on soil and water analysis

12 hours

- i. Soil sample preparation
- ii. To determine pH of given soil and water sample.
- iii. To determine nutrient content (NPK) of soil. i
- iv. To determine salinity of given soil sample.
- v. To determine of conductivity of soil and water.
- vi. To determine hardness of water. vii. To determine alkalinity of water.
- vii. To determine TDS of given sample of water.

REFERENCE BOOKS

1. Vogel, A. I. Vogel's Qualitative Inorganic Analysis 7th Ed., Prentice Hall.
2. Vogel, A. I. Vogel's Quantitative Chemical Analysis 6th Ed., Prentice Hall
3. Skoog, D.A.; West, D.M. & Holler, F.J. Fundamentals of Analytical Chemistry 6th Ed., Saunders College Publishing, Fort Worth (1992)
4. G.T. Miller, Environmental Science 11th edition. Brooks/ Cole (2006).

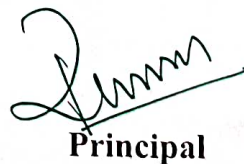


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Department of Chemistry



Value Added Course in Soil and Water Analysis 2023 -24

Distribution of Syllabus

Dr. S.D.Lamani

Unit 1: Soil analysis

3hours

Introduction to soil analysis, components of soil, physical and chemical properties of soil, importance of soil analysis.

Dr. S.N.Unki

Unit 2: Water analysis

3 hours

Chemistry and composition of water, properties of water, water pollution and sources of pollution, water quality parameters, importance of water analysis for environment.

Smt. Malati Chanagond.

Unit 3: Sample preparation of soil

4 hours

Methods of soil sample collection and processing, storage of sample, precautions during the process.

Prof. Anil Patil

Unit 4: Instruments for soil and water analysis

8 hours

Brief study on instruments required for analysis: pH Meter, Conductivity meter, UV-Spectrophotometer, Flame photometer, Atomic Absorption Spectrophotometer, use of water testing kit, Kjeldahl's Assembly for determination of nitrogen.

Mr. Vinod Devannavar

Unit 5: Hands on training on soil and water analysis

12 hours

- i. Soil sample preparation
- ii. To determine pH of given soil and water sample.
- iii. To determine nutrient content (NPK) of soil. i
- iv. To determine salinity of given soil sample.
- v. To determine of conductivity of soil and water.
- vi. To determine hardness of water.
- vii. To determine alkalinity of water.
- viii. To determine TDS of given sample of water.



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Department of Chemistry



Significance of Value Added Course 2023-24

Subject: Department of Chemistry conduct Value added Course in "Soil and Water Analysis". During the year 2023-24

OBJECTIVES

1. To learn about the chemistry and composition of soil and water.
2. To develop a basic comprehension regarding soil testing in the students.
3. To acquire water analysis skill.
4. To develop basic understanding regarding soil testing in the students.
5. To introduce them with macro and micro nutrients for soil.
6. To enhance their skills about water analysis

Course duration: 30 hrs

The theory classes and practical classes will be conducted as per the time table. At the end of the course internal test will be conducted for 50 marks the qualified students will get the certificate after completion of course


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Department of Chemistry



Value Added Course in Soil and Water Analysis 2023 -24

Subject Code: 23UGVACHE02

Time Table

Day/Time	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday	
	Class/Faculty	R. No.	Class/Faculty	R. No.	Class/Faculty	R. No.	Class/Faculty	R. No.	Class/Faculty	R. No.	Class/Faculty	R. No.
8.00 AM – 9.30 AM	B.Sc ^{1st} sem SDL	03	B.Sc ^{1st} sem SNU	03	B.Sc ^{1st} sem MBC	03	B.Sc ^{1st} sem ARP	03	B.Sc ^{1st} sem VD	03	B.Sc ^{1st} sem VD	03

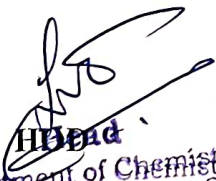
SDL - Dr. S. D. Lamani

SNU - Dr. S. N. Unki

MBC - Malati Chanagond

ARP - Prof. Anil Patil

VD - Vinod Devannavar


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Date: 28-06-2024

Notice

Department of Chemistry

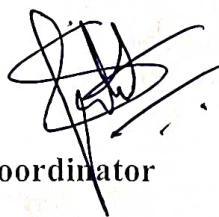
Value Added Course in Soil and Water Analysis 2023 -24

The students of B.Sc II semester are hereby informed that, the department of Chemistry is conducting **Value Added Course in "Soil and Water Analysis"**. The students, who have enrolled for the course, should attend the examination on 30/06/2024 without fail.

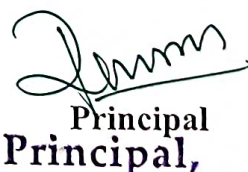


HOD
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DEPARTMENT OF CHEMISTRY

Value Added Course Student Attendance -2023-24

Time: 08:00 am to 09:30 am

Total Hours : 30 Total Days: 20

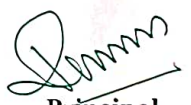
UUCM S No	Name Of The Student	1-6-24	3-6-24	4-6-24	5-6-24	6-6-24	7-6-24	8-6-24	10-6-24	11-6-24	12-6-24	13-6-24	14-6-24	15-6-24	18-6-24	19-6-24	20-6-24	21-6-24	22-6-24	24-6-24	25-6-24	TOTAL
U15KM2 3S0131	SUDEEP SURESH RACHAGOND	1	1	2	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	16	17	
U15KM2 3S0132	ANITA G ANKALAGI	1	2	3	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	
U15KM2 3S0133	JYOTI KOTIHAL	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	
U15KM2 3S0134	RASMI VAGGI	1	2	3	4	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	
U15KM2 3S0135	MALLAPPA S VAGGERI	1	2	3	4	5	5	6	7	8	9	10	11	11	12	13	14	14	15	16	17	
U15KM2 3S0138	ANKITA	0	1	2	3	4	5	5	6	7	8	9	10	11	11	12	13	14	15	15	16	
U15KM2 3S0141	VIJALAXMI GUNNAPUR	1	2	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	
U15KM2 3S0151	REKHA MARADI	1	2	3	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	18	19	
U15KM2 3S0154	ASHWINI KALAGHATAGI	0	1	2	3	4	4	5	6	7	8	9	10	10	11	12	13	14	15	16	17	
U15KM2 3S0165	RASHMI MEDEDAR	1	2	3	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	
U15KM2 3S0167	JYOTI GANIGER	1	2	3	4	5	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	
U15KM2 3S0168	VILASMATI BIRADAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	14	15	16	16	17	
U15KM2 3S0169	PRIYA RATHOD	0	1	2	3	4	5	6	7	8	9	10	11	12	13	13	14	15	16	17	18	
U15KM2 3S0172	PRATEEK BIRADAR	1	2	2	3	4	5	6	7	8	8	9	10	11	11	12	13	14	14	15	16	
U15KM2 3S0179	SHIVANAND NAYAK	1	2	3	4	4	5	6	7	7	8	9	9	10	11	12	13	14	15	16	17	
U15KM2	SHIVANAND	1	2	3	4	5	6	7	8	9	9	10	11	11	12	13	14	15	16	17	18	

[Handwritten signatures and initials across the bottom of the table]

U15KM2 3S0183	SABU TORAVI	0	1	2	3	4	5	6	7	8	8	9	10	11	11	12	13	14	14	15	16	16
U15KM2 3S0173	SHABEENA CHAPPARBAND	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	19	
U15KM2 3S0199	SACHIN BIRADAR	1	2	3	4	5	5	6	7	8	9	9	10	11	12	12	13	14	15	16	17	
U15KM2 3S0201	PREETI A KOLUR	2	2	3	3	4	5	6	7	7	8	9	10	10	11	12	13	14	15	16	17	
U15KM2 3S0202	CHAITRA DONAJ	1	2	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16	16	17	18	
U15KM2 3S0206	SHILPA KURI	1	2	3	4	5	6	7	8	9	10	11	12	12	13	14	15	16	17	18	19	
U15KM2 3S0136	VIDYASHREE KERUR	1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	18	
U15KM2 3S0210	GURUNATH MASALI	1	2	2	3	4	5	6	7	8	8	9	10	11	12	13	13	14	15	16	17	
U15KM2 3S0211	AKSHATA ASHOK METRI	1	2	3	3	4	5	6	6	7	8	9	10	11	11	12	13	14	15	16	16	
U15KM2 3S0213	PALLAVI S MATHAPATI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	15	16	17	18	18	
U15KM2 3S0218	BHAGYASHREE CHOUDHARI	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	14	15	16	17	18	
U15KM2 3S0127	BASAYYA CHIKKAPATTA	1	2	3	4	5	6	6	7	8	9	10	10	11	12	13	14	15	15	16	17	
U15KM2 3S0220	GURURAJ P RATHOD	1	2	3	4	5	5	6	7	8	8	9	10	10	11	12	13	14	14	15	16	
U15KM2 3S0223	M RAKSHITA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	16	17	18	
	SRUSHTI BASAVARAJ GUBBI	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19	


HOD
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Date: 28-06-2024

Notice

Department of Chemistry

Value Added Course in Soil and Water Analysis 2023 -24

The students of B.Sc II semester are here by informed that, the department of Chemistry is conducting **Value Added Course in "Soil and Water Analysis"**. The students, who have enrolled for the course, should attend the examination on 30/06/2024 without fail.



B. L. D. E. ASSOCIATION'S
S. B. ARTS AND K. C. P. SCIENCE COLLEGE
Department of Chemistry



VALUE ADDED COURSE EXAMINATION 2023-24

Semester: B.Sc II nd		Subject Soil and Water Analysis	Code: 23UGVACHE02
Date: 30-06-2024		Time: 10-00 AM to 12-00 PM	Max. Marks: 50
Q. No. I.	Answer any four of the following Questions.		5×4=20
1.	Explain different types of soil.		
2.	Define soil erosion and describe the factor influencing water erosion.		
3.	Write about mode of sediment transportation.		
4.	What is the mean by gully and describe the classification of gully.		
5.	Explain the BOD of water sample.		
6.	Explain the P ^H of water sample.		
Q. No II	Answer any three of the following Questions.		10×3=30
7.	Explain the potassium from soil by flame photometer		
8.	Explain the COD of water sample.		
9.	Explain the TDS of water sample.		
10.	Explain the turbidity of water sample		

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S. B. ARTS AND K. C. P. SCIENCE COLLEGE

Department of Chemistry



Value Added Course in Soil and Water Analysis

Exam Attendance Sheet-2023-24

Sl No	UUCMS No	NAME OF THE STUDENT	sign
1	U15KM23S0131	SUDEEP SURESH RACHAGOND	
2	U15KM23S0132	ANITA G ANKALAGI	
3	U15KM23S0133	JYOTI KOTIHAL	
4	U15KM23S0134	RASMI VAGGI	
5	U15KM23S0135	MALLAPPA S VAGGERI	
6	U15KM23S0138	ANKITA	
7	U15KM23S0141	VIJALAXMI GUNNAPUR	
8	U15KM23S0151	REKHA MARADI	
9	U15KM23S0154	ASHWINI ISHWARALING KALAGHATAGI	
10	U15KM23S0165	RASHMI RAJENDRA MEDEDAR	
11	U15KM23S0167	JYOTI DATTATREYA GANIGER	
12	U15KM23S0168	VILASMATI BIRADAR	
13	U15KM23S0169	PRIYA RATHOD	
14	U15KM23S0172	PRATEEK BIRADAR	
15	U15KM23S0179	SHIVANAND GANGAPPA NAYAK	
16	U15KM23S0182	SHIVANAND SABU TORAVI	
17	U15KM23S0183	SHABEENA REHAMANSAB CHAPPARBAND	
18	U15KM23S0173	SACHIN BIRADAR	
19	U15KM23S0199	PREETI A KOLUR	
20	U15KM23S0201	CHAITRA DONAJ	
21	U15KM23S0202	SHILPA YANKANNA KURI	
22	U15KM23S0206	VIDYASHREE KERUR	
23	U15KM23S0136	GURUNATH MASALI	
24	U15KM23S0210	AKSHATA ASHOK METRI	
25	U15KM23S0211	PALLAVI SATAYYA MATHAPATI	
26	U15KM23S0213	BHAGYASHREE SURESH CHOUDHARI	
27	U15KM23S0218	BASAYYA REVANAYYA CHIKKAPATTA	
28	U15KM23S0127	GURURAJ P RATHOD	
29	U15KM23S0220	M RAKSHITA	
30	U15KM23S0223	SRUSHTI BASAVARAJ GUBBI	

Department of Chemistry
S.B.Arts & K.C.P.Science College,
Vijayapur.

IQAO, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

Principal,
S.B.Arts & K.C.P. Science College,
VIJAYAPUR.

B. L. D. E. ASSOCIATION'S
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 Department of Chemistry



Value Added Course in Soil and Water Analysis

Student Marks List-2023 -24

Total Marks-50

Sl No	UUCMS No	NAME OF THE STUDENT	Obtained Marks	Grade
1	U15KM23S0131	SUDEEP SURESH RACHAGOND	35	B
2	U15KM23S0132	ANITA G ANKALAGI	40	B
3	U15KM23S0133	JYOTI KOTIHAL	48	A
4	U15KM23S0134	RASMI VAGGI	36	B
5	U15KM23S0135	MALLAPPA S VAGGERI	32	B
6	U15KM23S0138	ANKITA	44	A
7	U15KM23S0141	VIJALAXMI GUNNAPUR	46	A
8	U15KM23S0151	REKHA MARADI	41	A
9	U15KM23S0154	ASHWINI ISHWARALING KALAGHATAGI	38	B
10	U15KM23S0165	RASHMI RAJENDRA MEDEDAR	35	B
11	U15KM23S0167	JYOTI DATTATREYA GANIGER	32	B
12	U15KM23S0168	VILASMATI BIRADAR	39	B
13	U15KM23S0169	PRIYA RATHOD	43	A
14	U15KM23S0172	PRATEEK BIRADAR	45	A
15	U15KM23S0179	SHIVANAND GANGAPPA NAYAK	46	A
16	U15KM23S0182	SHIVANAND SABU TORAVI	42	A
17	U15KM23S0183	SHABEENA REHAMANSAB CHAPPARBAND	44	A
18	U15KM23S0173	SACHIN BIRADAR	34	B
19	U15KM23S0199	PREETI A KOLUR	38	B
20	U15KM23S0201	CHAITRA DONAJ	39	B
21	U15KM23S0202	SHILPA YANKANNA KURI	34	B
22	U15KM23S0206	VIDYASHREE KERUR	38	B
23	U15KM23S0136	GURUNATH MASALI	32	B
24	U15KM23S0210	AKSHATA ASHOK METRI	41	A
25	U15KM23S0211	PALLAVI SATAYYA MATHAPATI	46	A
26	U15KM23S0213	BHAGYASHREE SURESH CHOUDHARI	48	A
27	U15KM23S0218	BASAYYA REVANAYYA CHIKKAPATTA	43	A
28	U15KM23S0127	GURURAJ P RATHOD	45	A
29	U15KM23S0220	M RAKSHITA	32	B
30	U15KM23S0223	SRUSHTI BASAVARAJ GUBBI	38	B

Head,
 Department of Chemistry
 S.B.Arts & K.C.P.Science College,
 Vijayapur.

IQAC Co-ordinator
 S.B.Arts & K.C.P.Science College,
 Vijayapur.

Principal,
 S.B.Arts & K.C.P. Science College,
 VIJAYAPUR.

**B.L.D.E. ASSOCIATION'S
S.B.ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR
DEPARTMENT OF Chemistry
2023-2024**

Value Added Course on Regulated Power Supply

Date: 12-07-2024

Student's Feedback

Rate the following aspects with tick marks (✓)

Aspects	Ratings			
	Satisfactory (1)	Good (2)	Very Good (3)	Excellent (4)
1. Course Contents and Relevance				
2. Organization and Conduction				
3. Trainers Expertise				
4. Usefulness of Course / Skill Development				

Comments (if any):

Feedback Question Analysis

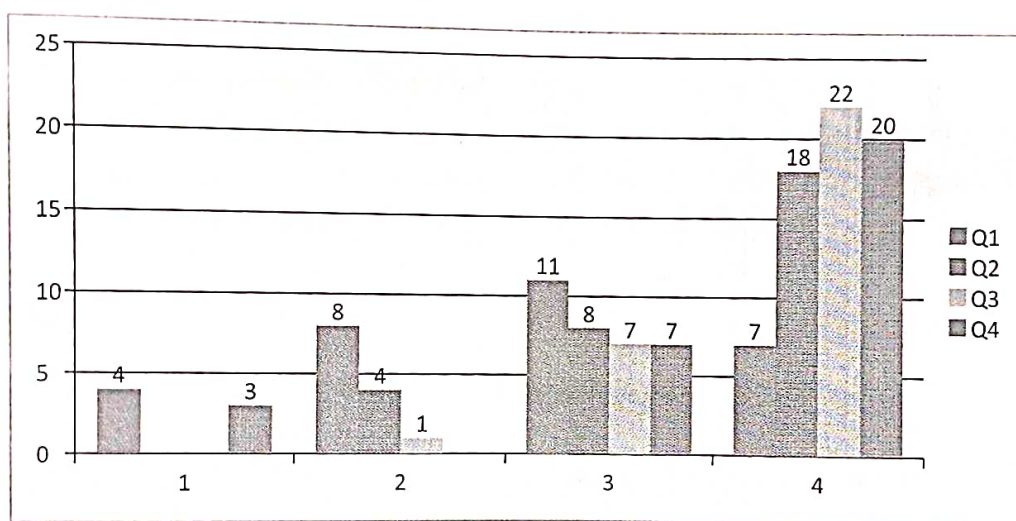
Questions Asked

Ratings

Q1. Course Contents and Relevance
Q2. Organization and Conduction
Q3. Trainers Expertise
Q4. Usefulness of Course / Skill Development

1. Satisfactory
2. Good
3. Very Good
4. Excellent

Ratings \ Questions	1	2	3	4
Q1	4	8	11	7
Q2	0	4	8	18
Q3	0	1	7	22
Q4	3	0	7	20



[Signature]
HOD.
Head
 Department of Chemistry
 S.B.Arts & K.C.P. Science College,
 Vijayapur.

[Signature]
IQAC Coordinator
IQAC, Co-ordinator
 S.B.Arts & K.C.P. Science College,
 Vijayapur.

[Signature]
Principal
Principal,
 S.B.Arts & K.C.P. Science College,
 VIJAYAPUR.



Value Added Course in Soil and Water Analysis

Subject Code: 23UGVACHE02

Course outcome

Water is a universal solvent. It contains variable quantities of dissolved solids and gases. Sometimes, suspended and colloidal, organic and inorganic material occurs as well.

Waters are usually classified as hard and soft according to the concentration of calcium and magnesium ions. These ions when present in high concentration such waters are termed as hard waters. The irrigation water which contains calcium and magnesium ions is hard and not suitable for domestic use but makes the agricultural land soft. On the other hand water which contains sodium ions is soft for domestic use but makes the agricultural land hard.

As the college is situated in rural area and most of the students are from farmer background hence to aware them about soil and water parameters, the Academic Council of Art, Commerce, Science and Computer Science College in its meeting decided to introduce a Certificate Course in Soil and water Analysis for next five academic sessions. The continuation of the course after five year will depend on interest and participation of students, course outcomes from the institution.



HOD
Head

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S.B.Arts & K.C.P.Science College,
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