Khandala Vibhag Shikshan Samiti's

Sushila Shankarrao Gadhave Mahavidyalaya, Khandala Supportive Doccuments For Certificate Course

- 1. Notice regaeding the introduction date of the course.
- 2.BOS resolution.
- 3. Syllabus of the course.
- 4. Course objectives & outcomes.
- 5.List of enrolled students.
- 6.Time table.
- 7. Attaindance Sheets.
- 8. Result of the course.
- 9.One sample certificate of the pass student.



Khandala Vibhag Shikshan Samits

Sushila Shankarrao Gadhave Mahavidyalaya, Khandala

2019-2020

Name Of Department

Chemistry

Name Of Course

Soil & Water Testing

Duration

3 Months

Assesment Procedure

Theory Paper – 50 Marks

Practical - 50 Marks

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Course Co-ordinator

Chairman

Principal

(Miss.Surve S.S.)

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Khanadala Vibhag Shikshan Samiti's

Sushila Shankarrao Gadhave Mahavidyalaya,Khandala Department Of Chemistry

Notice:-

All the students of B.Sc.III are hereby informed that, their regular lectures for the Course "Soil And Water Analysis" will be started from 25-11-2019

In B.Sc. III classroom.

All enrolled students must be present for the same in time Time of lecture is 9:30 am To 10:30 am Time of practical is 9 am To 12 pm (on recommended day)

Head

Department of Chemistry

Khandala Vibhag Shikshan samitis

Sushila Shankarrao Gadhave Mahavidyalaya, Khandalaya

Department of Chemistry

Certificate course : - Soil & Water Analysis

Board of Studies

Sr.No	Name of Member	College	Designation		
1	Dr.Bamane S.R.	Principal Sushila Shankarrao Gadhave mahavidyalaya Khandala	Chairman		
2	Prof.kamble U.B.	Asst. Prof.Kisanveer Mahavidyalaya wai	Member		
3	Dr.Bhoite P.H.	Asst. Prof.Kisanveer Mahavidyalaya wai	Member		
4	Prof.Surve S.S.	H.O.D. Sushila Shankarrao Gadhave mahavidyalaya Khandala	Member		
5	Prof.Kalokhe A.P.	Asst. Prof.Sushila Shankarrao Gadhave mahavidyalaya Khandala	Member		

Syllabus

Certificate course in Soil and Water analysis:

shankarran

Max. Marks: 50

Part I: Soil Analysis

Unit I: Introduction to Soil Science

Definition of Soil as a natural body, Soil Components inorganic and organic solids, Types of Soils & Basic Concepts.

Properties of Soil:

Introduction to properties of Soil:

- A) Physical Properties:-
 - Soil Texture and Structure, Temperature, Colour, Properties of Soil Mixture Particle Density.
- B) Chemical Properties:Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.
- C) Biological Properties:-

Soil Organic Matter, C: NRelationships, N-Transformation, Soil Organisms, Sulfur Transformation.

Books Recommended:

- 1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
- 2. Fundamentals of soil science, foth, H.D. Wiley Books.
- 3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
- 4. Principles of Soil Chemistry (2Wed.) Marcel Dekker Inc., New York.

Unit II: Soil Testing & Analysis

Unit I:Sample Collection and Processing

Purpose of Soil testing and analysis, selection of field, Method of Soil Sample collection Methods of soil sample processing, precautions during soil collection & processing, Preservation labeling and Storage of soil samples



Practicals

- 1. Visit to Soil Testing Laboratory & Report writing.
- 2. Visit to Farmers Fields for Collection of Soil Samples, identification of nutrient deficiency Crop.
- 3. Preparation of Various Chemical reagents required for soil testing.
- 4. Processing of Soil Sampling for analysis
- 5. Determination of PH of soil sample using PH meter
- 6. Determination of Electrical Conductivity of Soil Sample using Electrical Conductivity meter.
- 7. Determination of Organic Carbon by wet Oxidation method.
- 8. Determination of available Nitrogen from Soil Sample.
- 9. Determination of available phosphorus from soil sample.

Reference Books:

- 1.Introduction To soil laboratory manual:j.j.harsett stipes
- 2. Introduction To soil science laboratory manual: palmer & troch

Part II: Water Analysis

Unit III:Introduction to Water analysis.

Types of Water, Water pollutatants, role of water testing for environment, Uses of water analysis.

Unit IV: Introduction to Water anlysis, Types of Water, Water pollutatants, role of water testing for environment, Uses of water analysis.

Temp, Turbidity, Acidity, Alkalinity, Biological oxygen demand (BOD), Conductivity and specific conductance, Chemical oxygen demand (COD), Residual Chlorine, Dissolved oxygen, Fluoride, Hardness, Total nitrogen, pH, Phosphorus, Total solids (TS), Total dissolved solids (TDS), Total suspended solids (TSS), Sodium, Potassium.

Practicals

- 1) To determine hardness of warter.
- 2) To determine P^H of given water sample.
- 3) To determine alkalinity of water.
- 4) To determine TDS of given sample of water.

Reference Book:

Manual for analysis of water

This proposal is placed before IQAC of Sushila Shankarrao Gadhave Mahavidyalaya,Khandala for syllabus approval.

IQAC

course coordinator

Principal

Secretary

S.R.Majgaonkar

S.S.Surve

K.V.S.S.Khandala

Khanadala Vibhag Shikshan Samiti's Sushila Shankarrao Gadhave Mahavidyalaya,Khandataay,Kh

Department Of Chemistry Certificate course in Soil and Water Analysis

Sushila Shankarrao Gadhave Mahavidyalaya, Khandala and IQAC department in its meeting decided to introduce self finance certificate course in **Soil and Water Analysis** for academic year 2018-19. This course will continue for next three years.

Objectives of the Course:-

- 1. To develop basic understanding regarding soil testing in the students.
- 2. To introduce them with macro and micro nutrients for soil.
- $3. \,\,$ To enhance their skills about water analysis.
- 4. To propagate the importance of the course for farmers.

Instructional Design:-

This course includes theory classes, field Visit.

Course Structure and Examination Scheme:-

Course No.	Course Name	Contact Classes (Hour)	Laboratory Experiment (Hour)	Total Marks
1	Soil and Water analysis	10	20	50

Quality Assurance Mechanism:

The quality of the course will be ensured through continuous evaluation of feedback from students and course coordinator by IQAC department of the College.

Khandala Vibhag Shaikshan samiti

Sushila Shakarrao Gadhave Mahavidyalaya Khanda

Department of Chemistry

Short term Course

Certificate Course in Soil & Water Analysis

Assement & Evaluation

Theory	(50)
Qusestion paper including 50 marks of objective question.	
Fill in the Blanks	
Oral Test	(10)
Assignments	(20)
Project	(20)
Grades:	

Percentage	Grade
Below 40%	F (Fail)
40-49 %	P (Pass)
50-59 %	C (Average)
60 - 69 %	B (Good)
70 – 79 %	A (Very Good)
80 – 89 %	A+ (Excellent)
90 – 100 %	O (Outstanding)





Sushila Shankarrao Gadhave Mahavidyalaya, Khandala

Student List – 2019-20

Course name - Soil & Water Analysis

Roll No.	Student Name
1	SHINDE POOJA NARAYAN
2	DHAYGUDE ASHWINI VIJAY
3	DHAYGUDE RESHMA SOPAN
4	RAUT SHUBHADA HANMANT
5	KIRVE ASMITA CHANDRAKANT
6	DHAMAL DIVYA RAMCHANDRA
7	HIRVE POOJA RAMCHANDRA
8	BHOSALE ASHWINI LAXMAN
9	BHOSALE KOMAL PRAKASH
10	CHAVAN PRAJAKTA SANTOSH
11	KASURDE SNEHA RAMESH
12	SHINDE ADITYA TANAJI
13	SHINDE ADITYA ASHOK
15	TAMBOLI ASHRAFA ALIM
16	DHAIGUDE KIRAN KESHAV
17	KHANDAGALE ADITI LAXMAN
18	KHANDAGALE NEHA SADASHIV
20	KHUNTE PRATIKSHA HIRAJI
21	RAMCHANDRA
24	DHAYGUDE MANALI BHAGWAN
26	JADHAV CHARUSHILA SANJAY
27	SHIRKE DIPALI APPASO
28	VISHWANATH
29	DHAYGUDE SAYALI HANMANT
31	DHAYGUDE TRUPTI BALASO
35	HANMANT
38	SAWANT SHRADHA BABAN
41	SHAIKH ASMA CHAND
48	MANE PRIYANKA DILIP
51	MADKAR RUSHIKESH SUBHASH
52	MOHITE MANTHAN RAJENDRA
54	BHOSALE NIKHIL DILIP
55	KUDALE JAYADEV PRAKASH
56	DHAYGUDE SUSHANT BHARAT
58	JADHAV PRATIKSHA DASHRATI
61	MAHANWAR VIKRAM BALASO
62	JAGTAP ANKITA DIGAMBAR



63	DHAMAL SHRUSHTI SANTOSH
64	NIKAM KAJAL RAJENDRA
65	KOLHE DADA RAJENDRA
66	RASKAR AKASH ARJUN
67	PISAL TUSHAR LAXMAN
68	PAWAR OMKAR SUDAM
69	THOMBARE SHANKAR GANAPAT
70	CHAVAN AKASH SANJAY

Khandala Vibhag Shikshan Samit's Sushila Shankarrao Gadhave Mahavidyalaya, Khandala Time Table (Soil & Water Analysis)

Year 2019-20

DATES	TEACHER NAME	LECTURE	PRACTICAL
25/11/2019	PROF . MiSS .More S.S	8.30 -9.30 am	
26/11/2019	PROF . MiSS . Nevase. K.A	8.30 -9.30 am	
27/11/2019	PROF . MiSS.Surve S.S		8.30 -11.30 am
28/11/2019	PROF . MiSS. Kalokhe A.P	8.30 -9.30 am	
29/11/2019	PROF . MiSS .Khandagle K.H	8.30 -9.30 am	
30/11/2019	PROF . MiSS . Dhayagude S.C		8.30 -11.30 am
02/12/2019	PROF . MiSS. Kalokhe A.P	8.30 -9.30 am	
03/12/2019	PROF . MiSS. Kalokhe A.P	8.30 -9.30 am	
04/12/2019	PROF . MiSS .More S.S		8.30 -11.30 am
05/12/2019	PROF . MiSS. Kalokhe A.P	8.30 -9.30 am	
06/12/2019	PROF . MiSS. Kalokhe A.P	8.30 -9.30 am	
07/12/2019	PROF . MiSS . Nevase. K.A		8.30 -11.30 am
09/12/2019	PROF . MiSS . Dhayagude S.C	8.30 -9.30 am	
10/12/2019	PROF . MiSS.Surve S.S	8.30 -9.30 am	
11/12/2019	PROF . MiSS .Khandagle K.H		8.30 -11.30 am

Shere-Co-ordinator

Khandala Vibhag Shikshan Samitis

Sushila Shankarrao Gadhave Mahavidyalaya, Khandala

Attendence Sheet 2019-20

56 DHAYGUDE SUSHANT BHARAT	55 KUDALE JAYADEV PRAKASH	54 BHOSALE NIKHIL DILIP	52 MOHITE MANTHAN RAJENDRA	51 MADKAR RUSHIKESH SUBHASH	48 MANE PRIYANKA DILIP	41 SHAIKH ASMA CHAND	38 SAWANT SHRADHA BABAN	35 BHOSALE MAHENDRA HANMANT	31 DHAYGUDE TRUPTI BALASO	29 DHAYGUDE SAYALI HANMANT	28 CHAUGULE DIPALI VISHWANATH	27 SHIRKE DIPALI APPASO	26 JADHAV CHARUSHILA SANJAY	24 DHAYGUDE MANALI BHAGWAN	21 SHIVTARE SWATI RAMCHANDRA	20 KHUNTE PRATIKSHA HIRAJI	18 KHANDAGALE NEHA SADASHIV	17 KHANDAGALE ADITI LAXMAN	16 DHAIGUDE KIRAN KESHAV	15 TAMBOLI ASHRAFA ALIM	13 SHINDE ADITYA ASHOK	12 SHINDE ADITYA TANAJI	11 KASURDE SNEHA RAMESH	10 CHAVAN PRAJAKTA SANTOSH	9 BHOSALE KOMAL PRAKASH	8 BHOSALE ASHWINI LAXMAN	7 HIRVE POOJA RAMCHANDRA	6 DHAMAL DIVYA RAMCHANDRA	5 KIRVE ASMITA CHANDRAKANT	4 RAUT SHUBHADA HANMANT	3 DHAYGUDE RESHMA SOPAN	2 DHAYGUDE ASHWINI VIJAY	1 SHINDE POOJA NARAYAN	ROII NO. Student Name		
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SHIVAJI UNIVERSITY, KOLHAPUR

Paper Wise Attendance Sheet and Junior Supervisor Report For – 2019-20

Course name - Soil & Water Analysis

Center Name –Sushila Shankarrao Gadhave Mahavidyalaya, Khandala

Date & time

Total students -45

e		otal students	-45	
Roll No.		Marks	Percentage	Grade
1	SHINDE POOJA NARAYAN	84	84	A+
2	DHAYGUDE ASHWINI VIJAY	88	38	+ 1
3	DHAYGUDE RESHMA SOPAN	24	84	A
4	RAUT SHUBHADA HANMANT	92	92	0
5	KIRVE ASMITA CHANDRAKANT	88	88	At
6	DHAMAL DIVYA RAMCHANDRA	88	8.8	At
7	HIRVE POOJA RAMCHANDRA	80	8.0	AT
8	BHOSALE ASHWINI LAXMAN	92	92	100
9	BHOSALE KOMAL PRAKASH	76	76	
10	CHAVAN PRAJAKTA SANTOSH	92	92	
11	KASURDE SNEHA RAMESH	70	72	A
12	SHINDE ADITYA TANAJI	84	12	AI
13	SHINDE ADITYA ASHOK	,	09	At
15	TAMBOLI ASHRAFA ALIM	92	92	0
16	DHAIGUDE KIRAN KESHAV	100	.100	0
17	KHANDAGALE ADITI LAXMAN	100	100	0
18	KHANDAGALE NEHA SADASHIV	88.	88	AT
20	KHUNTE PRATIKSHA HIRAJI	80	80	AT
21	SHIVTARE SWATI RAMCHANDRA	100	100	10
24	DHAYGUDE MANALI BHAGWAN	92	92	A F
26	JADHAV CHARUSHILA SANJAY	80	80	AT
27	SHIRKE DIPALI APPASO	96	9.6	
28	CHAUGULE DIPALI VISHWANATH	92	92	0
29	DHAYGUDE SAYALI HANMANT	100	100	0
31	DHAYGUDE TRUPTI BALASO	84	84	1 T
35	BHOSALE MAHENDRA HANMANT	92	92	0
38	SAWANT SHRADHA BABAN	92	92	0
	SHAIKH ASMA CHAND	92	.92	0
7.1	MANE PRIYANKA DILIP	64	64	B
	MADKAR RUSHIKESH SUBHASH	84	.84	At
	MOHITE MANTHAN RAJENDRA	88	88	At
	BHOSALE NIKHIL DILIP	92	. 92	0
	KUDALE JAYADEV PRAKASH	100	100	0
		100	100	0
	DHAYGUDE SUSHANT BHARAT	8.0	80	AT
	JADHAV PRATIKSHA DASHRATH	80	80	AT
	MAHANWAR VIKRAM BALASO	80	80	AT
	JAGTAP ANKITA DIGAMBAR	100	190	0
	DHAMAL SHRUSHTI SANTOSH	76	76	A
	NIKAM KAJAL RAJENDRA	84	84	At
65 P	COLHE DADA RAJENDRA	9.2	92	

Show Co-ordinator



CC	RASKAR AKASH ARJUN	1 1 0		The state of the s
66		96	96	0
67	PISAL TUSHAR LAXMAN	100	100	10
68	PAWAR OMKAR SUDAM	92	92	<u></u>
69	THOMBARE SHANKAR GANAPAT	88	8.8	At
70	CHAVAN AKASH SANJAY	96	96	(2)

Sume Co-ordinator.



Khandala Vibhag Shikshan Samitee's

SUSHILA SHANKARRAO GADHAVE MAHAVIDYALAYA, KHANDALA

(Arts, Commerce, Science & BCA) Tal. Khandala, Dist. Satara, Pin - 412802

Centrality

This is to certify that Shri / Smt. Shinde... Rdityo Tanaji...

has Participated / Completed in Soil. and water Testing.

During the Academic Year 20219 - 2020

20

Principal

Co - ordinator