



SPVVS'S

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



BROCHURE



DEPARTMENT OF CHEMISTRY

**CERTIFICATE COURSE
2018-19**

Title : SOIL ANALYSIS

DATE: 01/08/2018 TO 01/11/2018

**Inauguration
01/08/2018
Time : 10:30 AM**

**Valedictory
03/11/2018
Time : 10:30 AM**

H.O.D.

Dept. of Chemistry
G. P. Porwal Arts, Commerce &
V. V. Salimath Science College
Sindgi-586128

Coordinator

Coordinator IQAC
G. P. PORWAL ARTS, COMMERCE &
V. V. SALIMATH SC. COLLEGE
SINDGI-586128

Principal

Principal,

G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 52



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

SOIL ANALYSIS

OFFERED BY

DEPARTMENT OF
CHEMISTRY

COURSE CODE

CCCHEMSOI 18-19

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 2018-19. The continuation of these courses will depend on interest and participation of students.

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 evaluate the fertility status of a soil for providing an index of nutrient availability or supply in a given soil.
- To provide a basis for recommendations on the amount of lime and fertilizer.
- TO evaluate the fertility status of a soil on area basis by the use of soil test summaries.

BENEFITS OF SOIL ANALYSIS

- Determines level of nutrients in the soil.
- Helps farmers in making smart data driven decisions.
- Helps in getting higher yield of crop.
- Helps in optimizing the fertilizer expenditure.
- Helps in selecting the right fertiliser and quantity for optimum fertility.
- Determination the effect of environment factors on soil
- Determination soil fertility.

COURSE OUTCOMES

- At the end of the program, students identify the benefits of soil organic matter
- Identify the six essential nutrients elements in soil and describe how they affect soil fertility.
- Identify the factors affecting soil formation and describe processes involved.
- Identify soil profile in terms of soil colour, texture and quantity of organic matter

COURSE CONTENT

UNIT-I

10 Hrs

Introduction : definition of soil, concept of lithosphere, soil as a natural body soil components

UNIT-II

10 Hrs

Properties of soil

- a) Physical properties- soil separates, texture, Aggregation and structure,.
- b) Chemical properties- Morphology of colloids, chemistry of clays ,Ionic exchange, .

UNIT-III

10 Hrs

Common soil test methods for fertilizers recommendations: Quantity- intensity relationships: soil test crop response correlations and response functions

BOARD OF STUDIES

1. Prof. R.S. Bhooshetti : Chairman & Principal
2. Prof. S.S.Mangalore : Coordinator

THANK YOU


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e-mail:gppprincipal@gmail.com

Web:www.gppcollegesindgi.org

Ph:08488-221244

Certificate Course-2018-19

" Soil Analysis "

Sl.No	Name of the students	Class	Signature
1	Anjali Aounti	B.Sc I sem	Anjali
2	Asma Jiradi	B.Sc I sem	Asma
3	Bangaramma	B.Sc I sem	Bangaramma
4	Bhagyalaxmi .M	B.Sc I sem	Bhagyalaxmi
5	Ambika M	B.Sc I sem	Ambika
6	Biradar Abhishek	B.Sc I sem	Biradar
7	Bhuvaneshwari	B.Sc I sem	Bhuvaneshwari
8	Harsha Sanagond	B.Sc I sem	Harsha
9	Narayan Naik	B.Sc I sem	Narayan
10	Naveenkumar Sindagi	B.Sc I sem	Naveenkumar
11	Ningayya	B.Sc I sem	Ningayya
12	Priyanka Kuchabal	B.Sc I sem	Priyanka
13	Rajashekarayyaswamy Hiremath	B.Sc I sem	Rajashekarayyaswamy
14	Renuaka	B.Sc I sem	Renuaka
15	Renuaka Devanagoan	B.Sc I sem	Renuaka
16	Santosh Dodamani	B.Sc I sem	Santosh
17	Shruti	B.Sc I sem	Shruti
18	Shweta Ganiger	B.Sc I sem	Shweta
19	Soundarya Desai	B.Sc I sem	Soundarya
20	Sunanda Gadad	B.Sc I sem	Sunanda
21	Suresh Malagi	B.Sc I sem	Suresh
22	Taiyaba Bankalagi	B.Sc I sem	Taiyaba
23	Vidyashri Hiremath	B.Sc I sem	Vidyashri
24	Vinod P	B.Sc I sem	Vinod
25	Shridhar Badiger	B.Sc I sem	Shridhar
26	Siddalinga Pujari	B.Sc I sem	Siddalinga
27	Sagar	B.Sc I sem	Sagar
28	Sangamesh	B.Sc I sem	Sangamesh
29	UmmeHabiba	B.Sc I sem	UmmeHabiba
30	Ashwini.C	B.Sc I sem	Ashwini

Coordinator IQAC

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

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H.O.D.

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G.P. Porwal Arts & Commerce

V. V. Salimath Science College

SINDGI-586128

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

B.SC.I SEMESTER

2018-19

SUBJECT : CHEMISTRY

CERTIFICATE COURSE : SOIL ANALYSIS

Date & Month	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
SL NO	Student Name																														
1	Anjali Aounti																														
2	Asma Jiradi																														
3	Bangaramma																														
4	Bhagyalaxmi. M																														
5	Ambika. M																														
6	BiradarAbhishhek																														
7	Bhuvaneshwari																														
8	HarshaSanagond																														
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10	NaveenkumarSindagi																														
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19	Soundarya Desai																														
20	Sunandagadad																														
21	Suresh Malagi																														

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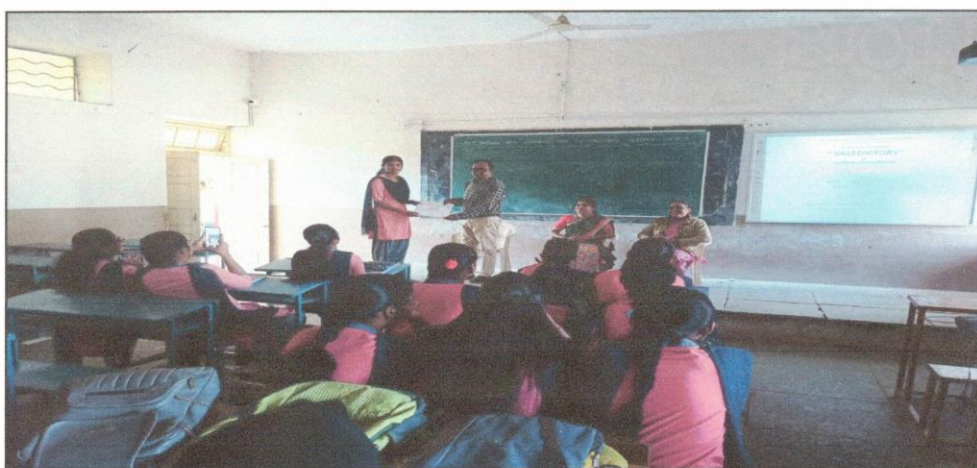
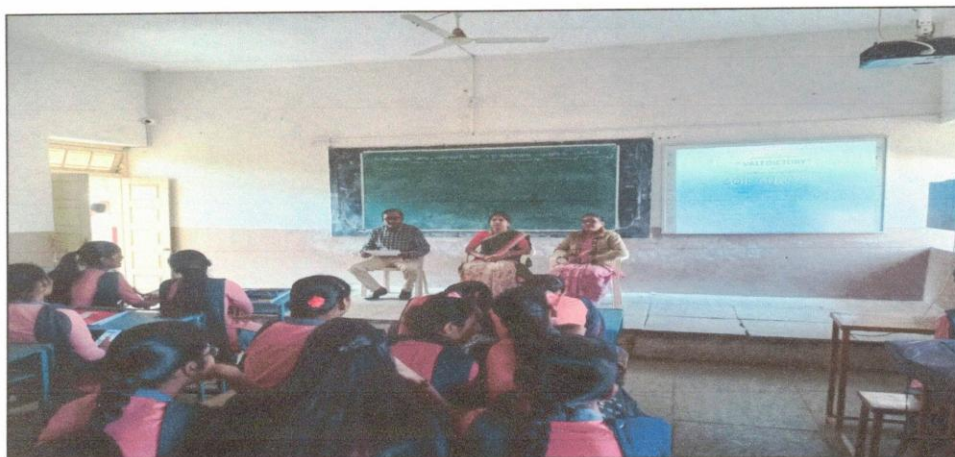
Accredited at 'B' Grade (2.42 CGPA) by NAAC

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

DEPARTMENT OF CHEMISTRY

SOIL ANALYSIS

VALEDICTORY OF CERTIFICATE COURSE: 2018-19



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Dept. of Chemistry
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SINDGI-586 128

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Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
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18-19

Notice

Date: 4/07/18

The meeting will be held on 7/07/18 for examination of BAS for the certificate course on soil and ~~water~~ analysis. Hence I hereby inform to all faculty members of chemistry department to attend the meeting at the principal chamber on 7/07/18 at 12.30 PM.

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Principal,

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Meeting:

A meeting was held on 21/07/18 for formation of BOS for the certificate course on soil ~~analytical~~ analysis in concentration with the faculty members of the department of chemistry prof. S. S. Mangalwar, preeti Binadar and B. H. Sunagar.

It was Resolved to form the BOS as follows

- 1) The principal of the college be the chairman
- 2) The faculty members to be the members of BOS
- 3) The members be from outside who have completed their p.G in Chemistry Mangalwar

The following subjects will be discussed in the meeting
Coordinator
G. P. Porwal Arts, Comm & V. V. Salimath Sc. College
SINDGI-586128.

Principal,
G. P. Porwal Arts, Comm & V. V. Salimath Sc. College
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Agenda:

- 1) Formation of syllabus for the ~~three~~^{five} years
- 2) Appointment of Teaching staff
- 3) Fixation of Timing of class
- 4) Fixation of Total Teaching hours for the course

The following members are signed to notice of meeting

1) prof. R. S. Bhoschetti (principal) =

2) prof. S. S. Mangalwar

3) Mrs. preeti Binadar

4) Mrs. B. H. Sunagar

Mangalwar
Binadar
Bhoschetti
H.O.D.
Dept. of Chemistry
G. P. Porwal Arts

Minutes 4 meetings.

Minutes 2nd meeting held on 7/07/18 are as follows.

- 1) syllabus 2nd round
- 2) Discussed 2nd appointment of teaching staff
- 3) preparation A Time table.
- 4) 30 hours time derivation is fixed to complete the soil and water analysis course
- 5) BOS member formation

The following members are attended

- 1) R. S. Bhattachi (Principal)
- 2) prof S. S. Mangalau
- 3) Miss P. S. Biradar
- 4) Mrs B. H. Sunagar

Mangalau
Biradar
Sunagar

Mangalau
H.O.D.

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G. p. porwal Arts Comm and V.V. science college sindgi
Certificate Course
on
Soil Analysis

Members of Bas Committee for the certificate
Course in Soil and water Analysis 2018-19

- | | |
|---------------------------|------------------------|
| 1) prof R. S. Bhushetti | chairman |
| 2) prof S. S. Mangalou | Septemchemistry member |
| 3) Mrs P. S. Birecha | " member |
| 4) Mrs B. H. Sunagar | " member |
| 5) prof P. S. Sarnadaguda | " " |
| 6) prof V. L. Kulkarni | " " |

Mangalou
H.O.D.

Dept. of Chemistry

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V. V. Salimath Science College

PRINCIPAL

G.P. Porwal Arts, Commerce
and V.V. Salimath Science and
P.G. Centre, Sindgi-586128

Coordinator IQAC

G. P. Porwal Arts, Comm &
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From,

Department of Chemistry

To,

The Principal

G.P.P & V.V.S Science

college Sindagi

Sub: Permission to start certificate course on Soil analysis

Respected Sir,

We are the faculty of Chemistry department have decided to start Certificate course on Soil and Water analysis. So we kindly request to give permission to start the course. Hope the authority consider and oblige.

Thanking You

Date: 3-07-2018

Yours faithfully



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Principal

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SCIENCE COLLEGE, SINDGI-586128DIST: Bijapur

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

Date: 23- 07 -2018

NOTICE

It is hereby informed to all the students of B.Scst semester that Certificate course on " Soil Analysis " will be started in our college. Hence interested students may apply on or before 28-07-2018

Contact:

Miss. PreetiBiradar

Miss. B.H.Sunagar


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CERTIFICATE COURSE FOR B.Sc 1st SEMESTER STUDENTS

DEPARTMENT OF CHEMISTRY

YEAR:2018-19

SUBJECT: SOIL 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:B.S.Sunugar Lecturer
5	Prof:P.S.Saranadagouda (R.D.Patil College, Sindagi)
6	Prof. V.L.Kulkarni

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Date:07/07/18

Prof:P.S. Saranadagouda
Deapartament of chemistry
R.D.Patil College
Sindagi 586128, Dist Vijayapur

Dear sir/madam

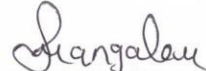
Subject: Regarding appointment letter as chemistry BOS Member.

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 2018/19.Kindly accept the same do need the needful.

Thanking you


Principal

Principal,
G. P. Porwal Arts, Comm &
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HOD of Chemistry
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Certificate Course-2018-19

" Soil Analysis "

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APPLICATION FORM

Name of the Course: Soil and Water analysis ~~Photo~~

Year of the Course: 2018-19

Semester: B.Sc I semester

General Information of the Candidate:

Name of the student: Anjali M. Aounti

Sex: Male - Female

Date of Birth: 15-07-2001

Caste: III B

Annual Income: 16000

Permanent Address: yadrami Tq II Jewargi Dist II 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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Signature of the Candidate

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7	Bhuvaneshwari	B.Sc I sem
8	Harsha Sanagond	B.Sc I sem
9	Narayan Naik	B.Sc I sem
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27	Sagar	B.Sc I sem
28	Sangamesh	B.Sc I sem
29	UmmeHabiba	B.Sc I sem
30	Ashwini C.H	B.Sc I sem

Shangale
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SINDGI-586128 DIST: VIJAYAPUR

DEPARTEMENT OF CHEMISTRY

: Certificate course :

(only for First semester)

THEORY & PRACTICAL TIME TABLE -2018-19

Days	TIME		Name of the faculty
	THEORY	PRACTICAL	
Monday	3PM to 4PM		Prof. S.S.Mangalore/B.H.S
Tuesday	3PM to 4PM		Miss. PreetiBiradar/S.S.M
Wednesday		2PM TO 5PM	Miss. B.H.Sunagar/S.S.M
Thursday		2PM TO 5PM	B.H.S/P.S.B

Mangalore
H.O.D.

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

He
Coordinator IQAC

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Principal,

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

SUB: Soil Analysis

Attendance List-2018-19

Class: B.Sc I sem

Sl.No	Name of the students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Signature
1	Anjali Aounti	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anjali
2	Asma Jiradi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Asma
3	Bangaramma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bangaramma
4	Bhagyalaxmi. M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhagyalaxmi
5	Ambika M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ambika
6	Biradar Abhishek	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Biradar
7	Bhuvaneshwari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhuvaneshwari
8	Harsha Sanagond	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Harsha
9	Narayan Naik	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Narayan
10	Naveenkumar Sindagi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Naveenkumar
11	Ningayya	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ningayya
12	Priyanka Kuchabal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Priyanka
13	Rajashekarayyaswamy Hiremath	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Rajashekarayyaswamy
14	Renuaka	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Renuaka
15	Renuaka Devanagoan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Renuaka
16	Santosh Dodamani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Santosh
17	Shruti	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shruti
18	Shweta Ganiger	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shweta
19	Soundarya Desai	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Soundarya
20	Sunanda Gadad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sunanda
21	Suresh Malagi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Suresh
22	Taiyaba Bankalagi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Taiyaba
23	Vidyashri Hiremath	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Vidyashri

24	Vinod 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	Vinod
25	Shridhar Badiger	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Shridhar
26	Siddalinga Pujari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Siddalinga
27	Sagar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sagar
28	Sangamesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sangamesh
29	Umme Habiba	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Umme
30	Ashwini C.H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ashwini

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SCIENCE COLLEGE, SINDGI-586128DIST: Bijapur

Affiliated to Rani Channamma University- Belagavi(Karnataka State)

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

Date: 04/10/2018

Department of Chemistry
Certificate Course-2018-19
" Soil Analysis

NOTICE

It is hereby informed to all the students of B.Sc1st semester who
have participated in Certificate course to attend practical exam on 03,04,05-
Oct-2018 and Theory final exam on 08-10-2018 at 2PM to 4PM.

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Certificate Course-2018-19

" Soil Analysis "

(Only for First semester)

Tme: 2 Hrs Question Paper 2018-19

Max Marks: 50

Q.No: 1 Answer the following questions.

2X5=10

- What is Soil? Nutrients present in Soil.
- Write the types of soil.
- What is Soil analysis?
- Write the components of soil.
- Draw the PH meter of Soil analysis.

Q.No: 2 Answer the following questions.

4X5=20

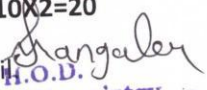
- Explain in detail PH meter of Soil
- Explain Alkalinity and salinity of Soil
- Explain the difference between inorganic and organic solids.
- Define: Alkalinity, PH, Salinity.

e) Q.No: 2 Answer the following questions.

10X2=20

- Explain Nitrogen and Phosphorous contents present in soil
- Explain Properties of soil.


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Department of Chemistry
Certificate Course-2018-19
" Soil Analysis "

Statement Of Marks -2018-19

Sl.No	Name of the students	Class	Theory 50 M	Practical 50 M	Total 100 M	Remark
1	Anjali Aounti	B.Sc I sem	40	43	83	Pass
2	Asma Jiradi	B.Sc I sem	35	43	78	Pass
3	Bangaramma	B.Sc I sem	38	45	83	Pass
4	Bhagyalaxmi M	B.Sc I sem	35	41	76	Pass
5	Ambika M	B.Sc I sem	40	42	82	Pass
6	Biradar Abhishek	B.Sc I sem	36	47	83	Pass
7	Bhuvaneshwari	B.Sc I sem	38	47	85	Pass
8	Harsha Sanagond	B.Sc I sem	35	41	76	Pass
9	Narayan Naik	B.Sc I sem	39	43	82	Pass
10	Naveenkumar Sindagi	B.Sc I sem	40	42	82	Pass
11	Ningayya	B.Sc I sem	40	42	82	Pass
12	Priyanka Kuchabal	B.Sc I sem	35	41	76	Pass
13	Rajashekarayyaswamy Hiremath	B.Sc I sem	37	41	78	Pass
14	Renuka	B.Sc I sem	38	43	81	Pass
15	Renuka Devanagoan	B.Sc I sem	32	43	75	Pass
16	Santosh Dodamani	B.Sc I sem	30	45	75	Pass
17	Shruti	B.Sc I sem	40	44	84	Pass
18	Shweta Ganiger	B.Sc I sem	35	46	81	Pass
19	Soundarya Desai	B.Sc I sem	38	46	84	Pass
20	Sunanda Gadad	B.Sc I sem	39	41	80	Pass
21	Suresh Malagi	B.Sc I sem	41	43	84	Pass
22	Taiyaba Bankalagi	B.Sc I sem	42	43	85	Pass
23	Vidyashri Hiremath	B.Sc I sem	35	43	78	Pass
24	Vinod P	B.Sc I sem	38	45	83	Pass
25	Shridhar Badiger	B.Sc I sem	32	41	73	Pass
26	Siddalinga Pujari	B.Sc I sem	34	45	79	Pass
27	Sagar	B.Sc I sem	36	45	81	Pass
28	Sangamesh	B.Sc I sem	40	45	85	Pass
29	UmmeHabiba	B.Sc I sem	38	41	79	Pass
30	Ashwini C.H	B.Sc I sem	39	41	80	Pass

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Department of Chemistry

Syllabus for Soil analysis

15 hours

Unit – I :

Introduction: Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.

Unit – II : Properties of Soil:

A) Physical Properties :- Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water relationships.

B) Chemical Properties :- Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

UNIT III:

Common soil test methods for fertilizer recommendations; quantity– intensity relationships; soil test crop response correlations and response functions.

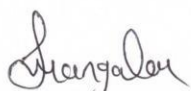
Practical:

25 hrs

Part I – Soil Analysis

- 1) To determine PH of given soil sample.
- 2) To Determine the bulk density of given soil.
- 3) To Determine the specific gravity of given soil.
- 4) To Determine the moisture content of given soil.
- 5) To Determine the electrical conductivity of given soil sample.
- 6) To Determine the alkalinity of given soil.


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ADD ON CERTIFICATE COURSE IN CHEMISTRY

Certificate Course on Soil Analysis

G.P.Porwal arts, commerce and 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 educationally, Economically, Socially backward students of this taluk. Since 1985 many students graduated with B.Sc. in Botany, Zoology, Chemistry, Mathematics, Physics and Computer Science.

IQAC of G.P.Porwal arts, commerce and V.V.salimath Science college in its meeting decided to introduce few self finance pilot add-on courses for next three academic sessions from session 2018-19. The continuation of these courses after three year will be depend on interest and participation of students, course outcomes and financial provisions from the Institution.

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.

Instructional Design:-

This course is of three month duration which includes theory classes and Practicals.

Course Structure and Examination Scheme:-

Course No	Course Name	Theory Classes	Laboratory Experiments	Theory Marks	Practical Marks	Total Marks
01	Soil Analysis	15hrs	25hrs	50	50	100

Eligibility: All students belongs to First semester are eligible to enroll for course.

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Name :- Anjali.

Topic :- Soil analysis.

40/50

1) What is soil? Nutrients present in soil.

Soil is the uppermost layer of the land surface usually composed of minerals, organic matter, living organisms, air & water.

* nutrients present in soil is

1) nitrogen (N) 2) phosphorus (P) 3) potassium (K)

2) Types of soil?

1) Sandy soil 2) clay soil 3) loam soil & peat soil

3) what is soil analysis?

Soil analysis is a set of various chemical processes that determine the amount of available plant nutrients in soil.

4) write the components of soil?

Soil is a material compound composed of five ingredients - minerals, soil organic matter, living organisms, gas & water.

10) ~~Explain~~ ^{explain} the pH meter of soil analysis?

Soil analysis pH meter are device used to measure the acidity or alkalinity of a soil. They work by measuring the hydrogen ion activity & this is expressed through the potential for hydrogen or pH. The pH scale ranges from 0-14 with a 0 being extremely acidic & 14 being neutral &

alkaline

Soil pH can be affected by many things. The most common influences on soil pH are weather, fertilizer type & amount of irrigation. Soil type, other plants in the area & nutrient availability. These means soil pH can be changed considerably & it is absolutely essential to take regular

6 a soil pH meter to ensure healthy growing plants measurements using

7) Draw the pH meter of Soil - analysis?

2) Explain alkalinity & Salinity of Soil?

Soil Salinity & Soil alkalinity are the results of over irrigation in Canal irrigated area in Canal irrigated areas plenty of the water is available & the farmers indulge in over irrigation of their fields. Under such conditions the ground water level rises & saline & alkaline effluents consisting of salts of Sodium.

⇒ Soil in sufficient quantity to be able to seriously interfere with the growth of most plants ⇒ Although salts of alkali are some what different in their chemical properties from the salts of Saline Soil

⇒ Salinity & alkalinity have adverse effect on soil & reduce soil fertility. It is estimated that 80 lakhs hectare of land is affected by the problem of Salinity & Alkalinity.

3) explain the difference between inorganic & organic Soil

* organic is Carbon based

* Carbon-based life form

* Biological in nature
Came from life

* will burn - ash

* ~ 5% of Soil

inorganic Soil

* inorganic

* minerals, metals

* not associated with life

*

* Does not burn - ash

* ~ 45% Soil.

4) Define alkaline. pH Salinity

=> Alkaline - Alkaline Soil is a type of Soil with high amount of Calcium Sodium & magnesium

=> pH - Soil pH is a measure of the acidity or basicity of a Soil

most Soil have pH values between 3.5 & 10.

=> Salinity - Soil Salinity is the amount of dissolved salts in the Soil solution.

5) Answer the following questions

- explain nitrogen & phosphorus contents present in soil?
- explain properties of Soil

a) Nitrogen (N) get the growth show on the road it is a building block for growing new stems & leaves plant it is a necessary part of chlorophyll which makes the leaves green & helps plants photosynthesis phosphorus (P) is needed for develop in flowers fruits & root system

b) physical properties of Soil include

Colour, texture, structure, porosity, density, temperature & Soil air

The colours of Soil vary widely from place to place & incline. Some properties like organic matter, texture & redox condition of the Soil.

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College, SINDGI- 586 128**

Dist: Vijayapur

State: Karnataka



(Accredited with 'B' Grade by NAAC)

(Affiliated to Rani Channamma University, Belagavi)



IQAC Initiative

DEPARTMENT OF CHEMISTRY

CERTIFICATE

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

HOD

Coordinator IQAC

Principal