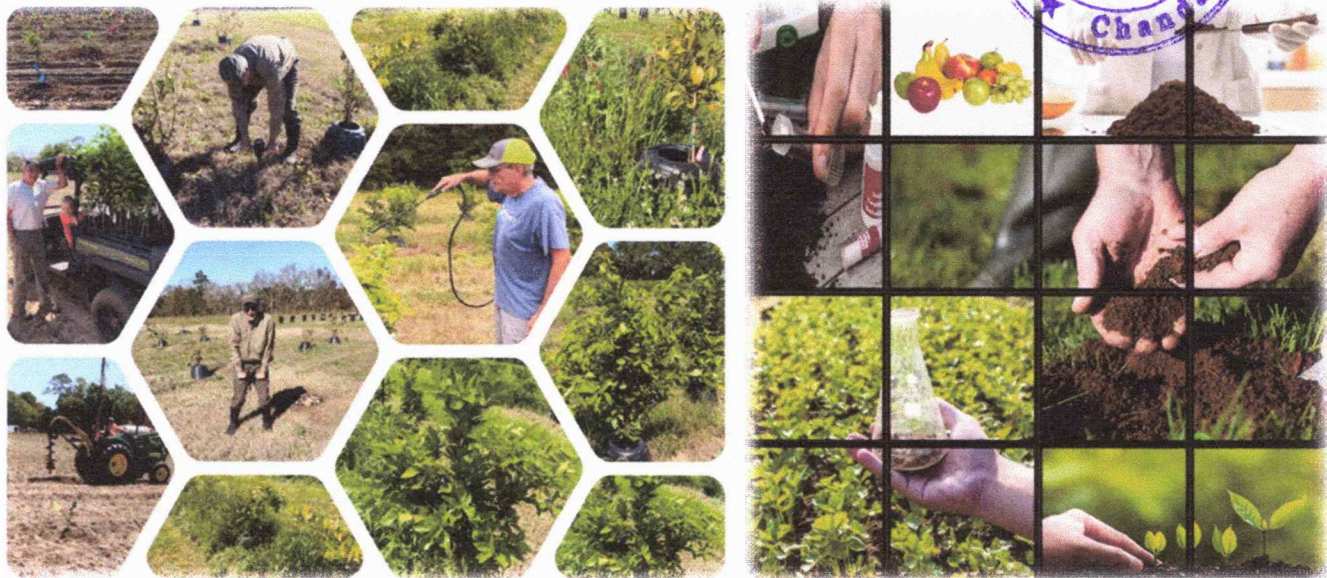




**SRI JAGADGURU MURUGHARAJENDRA
COLLEGE OF ARTS, SCIENCE & COMMERCE
CHANDRAVALLI, CHITRADURGA-577502**



Affiliated to Davangere University, Davangere
Accredited with 'A' Grade Third cycle



CERTIFICATE COURSE

ON

SOIL ANALYSIS

From 15th November to December 30th, 2022

2022-23

Organized by
DEPARTMENT OF CHEMISTRY

In Association with
IQAC

S J M VIDYAPEETS ®, Chitradurga
S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE
Chandravalli, CHITRADURGA-577501.



From:

Co-Ordinator

Certificate Course on Soil Analysis
Department of chemistry
SJM College Chandravalli
Churtadurga.

TO:

The Principal

SJM College Chandravalli
Chitradurga.

Sir:

Subject: Permission for certificate Course on Soil Analysis.

With Reference to the Cited Above, Our Department has decided to start certificate course on "Soil Analysis" for B.Sc degree students for the academic year 2022-23, so I request you grant permission to start certificate course with Self financial assistance.

Thanking you sir

Place: *Chitradurga*

Date: *05-11-2022*

Your's faithfully

B. A.

Co-Ordinator

S J M VIDYAPEETS ®, Chitradurga
S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE
Chandravalli, CHITRADURGA-577501.



From:

Co-Ordinator

Certificate Course on Soil Analysis
Department of chemistry
SJM College Chandravalli
Churtadurga.

TO:

The Principal

SJM College Chandravalli
Chitradurga.

Sir:

Subject: Permission for certificate Course on Soil Analysis.

With Reference to the Cited Above, Our Department has decided to start certificate course on "Soil Analysis" for B.Sc degree students for the academic year 2022-23, so I request you grant permission to start certificate course with Self financial assistance.

Thanking you sir

Place: *Chitradurga*

Date: *05-11-2022*

Your's faithfully

B. A.

Co-Ordinator

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 05-11-2022



OFFICE ORDER

Sri, Nagraja B, Assistant Professor of Chemistry has been appointed as a Coordinator for the Certificate course on Soil Analysis for the academic year 2022-23.

PRINCIPAL
S J M Arts Science &
Commerce College
Hik Road CHITRADURGA.

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date : 07-11-2022

To:

Co-Ordinator

Certificate Course on Soil Analysis

Department of chemistry

SJM College Chandravalli

Churtadurga.



Sir,

Subject: **Regarding for permission to grant
Certificate course on "Soil Analysis"**

With reference to the above, the permission has granted to Department to start certificate course on "Soil Analysis" for B.Sc degree students for the academic year 2022-23 with non-financial assistance.

A handwritten signature in green ink, appearing to be "B. A. S.", written over the printed name of the Principal.

Principal

PRINCIPAL

S. J. M. Arts Science &
Commerce College
Mk Road, CHITRADURGA.

Received
B. A. S.

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 07-11-2022



OFFICE ORDER

Sri. H.M. ManjunathaSwamy, Assistant Professor, Department of Chemistry has been appointed as **Director** for the Certificate courses for the academic year 2022-23.

Principal

PRINCIPAL
S J M Arts Science &
Commerce College
HIK Road CHITRADURGA.

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka
NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 07-11-2022



To,

Sri Manjunathaswamy H.M

Assistant Professor,
SJM College of Arts, Science & Commerce,
Chandravalli, Chitradurga

Respected Sir,

**Sub: Regarding providing service as a Director for
Certificate Course on Soil Analysis.**

Our College of the Chemistry Department has planned to conduct a Certificate Course on "Soil Analysis". In this academic year 2022-23 for B.Sc., students. Hence I am requesting you to provide honorable Service as a Director of Board of Studies for this Certificate Course

Thanking you,

Permes
[Signature]

[Signature]
(Principal) Ramesh
S J M Arts Science &
Commerce College
HIK Road CHITRADURGA

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmascc@rediffmail.com



Date: 8-11-2022

CIRCULAR

With the consent of the following, we have framed BOS Chairman and Members for the Certificate Course on Soil Analysis to be conducted from the Department of Chemistry academic year 2022-23

Sl no	Name	Designation	Signature
01	Sri Nagraj S Assistant Professor, Govt First Grade College, Chitradurga	Chairman	
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	
03	Sri Nagraja B Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Member	
04	Smt. Manasa J Assistant Professor, HPPC Govt First Grade College, Challakere	Member	

PRINCIPAL
S J M Arts Science &
Commerce College
Hik Road CHITRADURGA.

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka
NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 8-11-2022



To,
Sri Nagraj S
Associate Professor,
Govt. Science College,
Chitradurga

Respected Sir,

**Sub: Regarding providing service as a Chairman for
B.O.S. for Certificate Course on Soil Analysis.**

Our College of the Chemistry Department has planned to conduct a Certificate Course on "Soil Analysis". In this academic year 2022-23 for B.Sc. students.

Hence I am requesting you to provide your honorable Service as a Chairman of Board of Studies for this Certificate Course.

Thanking you,

A handwritten signature in blue ink, appearing to be "Sri Nagraj S", written over a horizontal line.

A handwritten signature in green ink, appearing to be "Sri Nagraj S", written over a horizontal line.

PRINCIPAL
S J M Arts Science &
Commerce
Hill Road, Chitradurga

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 8-11-2022



To,
Smt. Manasa J
Assistant Professor,
HPPC Govt First Grade College, Challakere

Respected Madam,

**Sub: Regarding providing service as a Member for B.O.S.
for Certificate Course on Soil Analysis.**

Our College of the Chemistry Department has planned to conduct a Certificate Course on "Soil Analysis". In this academic year 2022-23 for B.Sc., students.

Hence I am requesting you to provide your honorable Service as a Member of Board of Studies for this Certificate Course

Thanking you,

Res
Manasa


(Dr K C Ramesh)
PRINCIPAL
S J M Arts Science &
Commerce College
Hik Road, CHITRADURGA.

S J M VIDYAPEETS ®, Chitradurga
S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka
NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date : 8.11.2022

To,
Sri Nagaraja B
Assistant Professor,
SJM College of Arts, Science & Commerce,
Chandravalli, Chitradurga



Respected Sir,

**Sub: Regarding providing service as a Member for B.O.S. for
Certificate Course on Soil Analysis.**

Our College of the Chemistry Department has planned to conduct a Certificate Course on "Soil Analysis". In this academic year 2022-23 for B.Sc., students. Hence I am requesting you to provide honorable Service as a Member of Board of Studies for this Certificate Course

Thanking you,

*Revised
B. Nagaraja*


(Dr K C Ramesh)

**PRINCIPAL
S J M Arts Science &
Commerce College
Hik Road, CHITRADURGA.**

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 20/05/2022



NOTICE

It is hereby requested to The Chairman and members of BOS to attend the BOS meeting on for discussing about framing the syllabus for Certificate course on "Soil Analysis"

SINo	Name	Designation	Signature
01	Sri Nagraj S Assistant Professor, Govt First Grade College, Chitradurga	Chairman	
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	
03	Sri Nagraja B Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Member	
04	Smt Manasa J Assistant Professor, HPPC Govt First Grade College, Challakere	Member	

Dr.K.C. Ramesh

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S J M Arts Science &
Commerce College
Hik Road, CHITRADURGA.

S J M VIDYAPEETS ®, Chitradurga

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NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com

Date: 9-11-2022

BOS Meeting Proceedings of Certificate course on Soil Analysis



The BOS meeting of Certificate course on Soil Analysis was held under the chairmanship of the BOS. After a thorough discussion the following resolutions have been passed regarding conducting the Certificate course.

Sl no	Proposal	Resolution
01	To form rules and regulations to conduct this course	It has been decided to entrust the responsibility of framing rules and regulations for this course to Principal and Director and coordinator of this course
02	To frame the syllabus to this course	Thorough discussions were held for finalizing the syllabus for this course.
03	Nature of examination	<ul style="list-style-type: none">• It has been decided to conduct examination for hundred marks (100 Marks)• It includes 60 marks for Theory and 40 marks for Practical examination

Name & Signature of the BOE Chairman

Name & Signature of the BOE Members

- 1) Mrs. Manjunatha Sway.
- 2) J. H. H. H.
- 3) B. A. N. N. N.

**COURSE STRUCTURE AND DETAILED SYLLABUS OF
CERTIFICATE COURSES ON
SOIL ANALYSIS**



Course: Certificate Course in Soil Analysis

Regulations:

One Month Course in Soil analysis Eligibility for admission: A candidate who has passed Pre University or 10+2 Science Education shall be eligible for admission and the candidate should be pursuing his/her B.Sc. Degree in the college.

Duration of the Course: -The Course of study for one month

Hours per week: There shall be 3 hours of Theory and 3 hours of Practical per week

Attendance Progress and conduct: As per Regulations of Davangere University

Scheme of Examination: -There shall be one paper each in Theory and Practical. Theory Paper carries Maximum of 60 Marks and Practical Paper carries a maximum of 40 Marks.

Passing: A candidate is expected to score minimum marks of 50 % in the total marks to be declared pass in the Certificate Course. The Minimum requirement to obtain First Class is 60%.

Certificate Course-1 Soil analysis

Paper	Title/Theory/Practical	Total Marks	Hrs	Week
Paper-1	Soil analysis	60	20	3
Practical	Soil analysis	40	12	3

**CERTIFICATE COURSES ON
SOIL ANALYSIS**



DETAILED THEORY SYLLABUS

Course Code: CHECCO

	Soil Analysis	20 Hrs
Unit I	Introduction:- Definition of Soil, Concept of Lithosphere, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.	5 Hrs
Unit II	Properties of Soil: Introduction to properties of Soil: Physical Properties:- Soil Separates ,Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Bulk Density, Particle Density, Aeration and Drainage, Surface area, Soil water relationships. Chemical Properties:- Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.	6 Hrs
Unit III	Soil Profile & Classification Soil profile, Soil forming factors, soil survey methods, soil survey reports, soil distribution, classification system.	4 Hrs
Unit IV	Conservation and Management Drainage, Soil erosion, types of Irrigation, Land use Classification, Plant & Animal waste, Municipal & Industrial by products & their impact.	4 Hrs
	Books Recommended 1. Fundamentals of soil science, foth, H.D. Wiley Books. 2. Soil Science and Management, Plaster, Edward J., Delmar Publishers. 3. Principles of Soil Chemistry (2nd Ed.) Marcel Dekker Inc., New York. 4. Hand book of Agricultural Sciences, S.S. Singh, P. Gupta, A.K. Gupta, Kalyani Publication.	

Name & Signature of the BOE Chairman

Name & Signature of the BOE Members

1) Manjunatha Swamy, H.M.

2)

3) Alexander S. S.



**CERTIFICATE COURSES ON
SOIL ANALYSIS**

PRACTICAL SYLLABUS

		12 Hrs
1.	Processing of Soil Sampling for analysis	
2.	Determination of PH of soil sample using PH meter	
3.	Determination of Electrical Conductivity of Soil Sample using Electrical Conductivity meter.	
4.	Determination of Organic Carbon by wet Oxidation method.	
	References: 1) Introduction to soil science laboratory manual, Palmer and troch-Lowastate.	

Name & Signature of the BOE Chairman

Name & Signature of the BOE Members

- 1) Manjunatha Suresh, H. M.
- 2) J. Hanu
- 3) Alagaraja-B. B. A.

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka

NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmascta@rediffmail.com

Date : 9-11-2022



To

Kumari.Nausheen

Lecturer

S J M College of Arts, Science and Commerce

Respected Madam,

**Sub: Regarding providing service as Resource Person
for Certificate course on Soil Analysis**

Our College of the Chemistry Department has planned to conduct a short term course on "Soil Analysis" in this academic year 2022-23 for B.Sc. Students.

Hence, I am requesting you to provide your honorable service as a **Resource Person** for this Certificate Course.

Thanking you Madam,

Received
Nausheen

Principal

PRINCIPAL

**S J M Arts Science &
Commerce College
Hik Road CHITRADURGA.**

S J M VIDYAPEETS ®, Chitradurga

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka
NAAC Reaccredited With 'A' Grade CGPA-3.05 email: sjmasccta@rediffmail.com


Date: 9-11-2022



NOTICE

It is hereby informed to all the B.Sc students that, the College starts the offline Certificate course on Soil Analysis from this academic year 2022-23.

The Course starts from 15-11-2022 B.Sc students can join this course. Those students who are interested to join this Certificate course can contact, the course coordinator Sri.Nagraja.B.Assistant Professor, Department of Chemistry.


(Dr. K.C. Ramesh)
PRINCIPAL
S J M Arts Science &
Commerce College
Hik Road, CHITRADURGA,

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, Chitradurga

DEPARTMENT OF CHEMISTRY

Students List for

Certificate Course on Soil Analysis 2022-23



SL No	Name of the Students	Combination	Signature
1	Asha Lakshmi	II st B.Sc (C P)	Asha Lakshmi.A
2	Ashitha	II st B.Sc (C M)	Ashitha.R.
3	Meghana.V	II st B.Sc (C M)	Meghana.V
4	Rakshitha Bai	II st B.Sc (C M)	Rakshitha bai, S
5	Ulfath Banu.K	II st B.Sc (C M)	Ulfath Banu.K
6	Bhoomika C N	II st B.Sc (C P)	Bhoomika.C.N
7	Chandana.B.S	II st B.Sc (C Z)	chandana.B.S
8	Jamuna	II st B.Sc (C Z)	Jamuna.G
9	Kavya S	II st B.Sc (C Z)	Kavya.S
10	Pooja Kumari.H.N	II st B.Sc (C Z)	Pooja Kumari.H.N
11	Ravikiran.M.D	II st B.Sc (C Z)	Ravikiran M.D
12	Ruchita T	II st B.Sc (C Z)	Ruchita.
13	Shalini.R	II st B.Sc (C Z)	Shalini.R
14	Shweetha Kumari	II st B.Sc (C Z)	Shweetha Kumari.C.N.
15	Syed Saniya	II st B.Sc (C Z)	Syed Saniya.
16	Tejasvini.S	II st B.Sc (C Z)	Tejasvini.S
17	Tejasvini.V	II st B.Sc (C Z)	Tejasvini.V
18	Adarsha C P	II st B.Sc (C- OE)	Adarsha C.P
19	Chandana.D	II st B.Sc (C- OE)	Chandana.D
20	Nagaratna C R	II st B.Sc (C- OE)	—
21	Priya C V	II st B.Sc (C- OE)	Priya.C.V
22	Priya.M.T	II st B.Sc (C- OE)	Priya.M.T.
23	Rakshitha.T	II st B.Sc (C- OE)	Rakshitha.T
24	Srusti.S	II st B.Sc (C- OE)	Srusti.S
25	Manoj.C	II st B.Sc (B Z)	Manoj.C
26	Sariya Tehreen	II st B.Sc (B Z)	Sariya Tehreen.

PRINCIPAL

S J M Arts Science & Commerce Coll

S J M COLLEGE OF ARTS, SCIENCE & COMMERCE
CHANDRAVALLI, CHITRADURGA



DEPARTMENT OF CHEMISTRY

Certificate Course on
SOIL ANALYSIS

TIME TABLE

DAYS	TIME	8 to 9	9 to 10	10 to 11	11 to 12	12 to 01	01 to 02	02 to 03	03 to 04	04 to 05
MONDAY	P R A Y E R									
TUESDAY										Soil Analysis NB
WEDNESDAY								Soil Analysis (Practical) NB		
THURSDAY										Soil Analysis NB
FRIDAY										Soil Analysis NB
STUARDAY										

B-N


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S J M Arts Science & Commerce College
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S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka



**DEPARTMENT OF CHEMISTRY
ORGANISE**

**CERTIFICATE COURSE ON
SOIL ANALYSIS**

2022-23

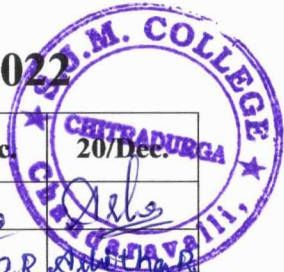
ATTENDANCE REGISTER

Certificate Course on Soil Analysis (Attendance) from 15-11-2022 to 30-12-2022

SL No	Name of the Student	15/Nov.	17/Nov.	18/Nov.	22/Nov.	P-3Hr 23/Nov.	24/Nov.	25/Nov.	29/Nov.	P-3Hr 30/Nov.	01/Dec.
1	Asha Lakshmi	Asha	Asha	Asha	Asha	-	Asha	Asha	Asha	Asha	Asha
2	Ashitha										
3	Meghana.V	Meghana.v	Meghana.v	Meghana.v		Meghana.v	Meghana.v	Meghana.v	Meghana.v		Meghana.v
4	Rakshitha Bai	Rakshi	Raksh	Raksh	Raksh	Raksh	Raksh	Raksh	Raksh	Raksh	Raksh
5	Ulfath Banu.K	Ulfath	Ulfath	Ulfath	-	Ulfath	Ulfath	-	Ulfath	Ulfath	Ulfath
6	Bhoomika C N	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika
7	Chandana.B.S	Chandana.B.S	chandana.B.S	-	chandana.B.S	Chandana.B.S	chandana.B.S	chandana.B.S	chandana.B.S	-	chandana.B.S
8	Jamuna	Jamuna.	Jamuna.G		Jamuna	Jamuna.	Jamuna.G	Jamuna.	Jamuna	Jamuna	Jamuna
9	Kavya S	Kavya.S	Kavya.S	Kavya.S	-	Kavya.S	Kavya.S	Kavya.S	Kavya.S	Kavya.S	Kavya.S
10	Pooja Kumari.H.N	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
11	Ravikiran.M.D	Ravi	Ravi	Ravi	Ravi	Ravi	-	Ravi	Ravi	Ravi	Ravi
12	Ruchita T	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita	Ruchita
13	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R
14	Shweetha Kumari	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha	Shweetha
15	Syed Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya
16	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S
17	Tejasvini.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V	Teja.V
18	Adarsha C P	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha
19	Chandana.D	Chandana	chandana	chandana	chandana	Chandana	chandana	-	chandana	chandana	chandana
20	Nagaratna C R	Nagr	Negr	Negr	-	-	-	-	-	-	-
21	Priya C V	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya
22	Priya.M.T	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya
23	Rakshitha.T	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha
24	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S
25	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C
26	Sariya Tehreen	Sariya	Sariya	Sariya	Sariya	Sariya	Sariya	Sariya	Sariya	Sariya	Sariya



Certificate Course on Soil Analysis (Attendance) from 15-11-2022 to 30-12-2022



SL No	Name of the Student	02/Dec.	06/Dec.	P-3Hr 07/Dec.	08/Dec.	09/Dec.	13/Dec.	P-3Hr 14/Dec.	15/Dec.	16/Dec.	20/Dec.
1	Asha Lakshmi	Asha	Asha	Asha	Asha	Asha	Asha	Asha	-	Asha	Asha
2	Ashitha	Ashitha.R	Ashitha.R	Ashitha.R	-	Ashitha.R	Ashitha.R	Ashitha.R	Ashitha.R	Ashitha.R	Ashitha.R
3	Meghana.V	Meghana.V	Meghana.V		Meghana.V	Meghana.V	Meghana.V	-	Meghana.V	Meghana.V	Meghana.V
4	Rakshitha Bai	Ra	Ra	Ra	Ra	Ra	Ra	Ra	Ra	Ra	Ra
5	Ulfath Banu.K	ulfath	ulfath	ulfath	ulfath	-	ulfath	ulfath	ulfath	ulfath	ulfath
6	Bhoomika C N	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika
7	Chandana.B.S	-	Chandana	chandana	Chandana	Chandana	Chandana	-	Chandana	Chandana	Chandana
8	Jamuna	Jamuna	Jamuna	-	Jamuna	Jamuna	Jamuna	-	Jamuna	Jamuna	Jamuna
9	Kavya S	Kavya.S	-	Kavya.S	Kavya.S	Kavya.S	Kavya.S	-	Kavya.S	Kavya.S	Kavya.S
10	Pooja Kumari.H.N	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
11	Ravikiran.M.D	Ravi	-	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
12	Ruchita T	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha
13	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R	Shalini.R
14	Shweetha Kumari	Shwetha	-	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
15	Syed Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya
16	Tejasvini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S	Tejaswini.S
17	Tejasvini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V	Tejaswini.V
18	Adarsha C P	Adarsha	Adarsha	Adarsha	Adarsha	-	Adarsha	Adarsha	Adarsha	Adarsha	Adarsha
19	Chandana.D	Chandana	Chandana	Chandana	-	Chandana	Chandana	Chandana	Chandana	Chandana	Chandana
20	Nagaratna C R	-	-	-	-	-	-	-	-	-	-
21	Priya C V	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya
22	Priya.M.T	Priya	Priya	Priya	Priya	Priya	Priya	Priya	-	Priya	Priya
23	Rakshitha.T	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha
24	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S
25	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C
26	Sariya Tehreen	Sariya	-	Sariya	-	Sariya	Sariya	Sariya	-	Sariya	Sariya

Certificate Course on Soil Analysis (Attendance) from 15-11-2022 to 30-12-2022

SL No	Name of the Student	P-3Hr 21/Dec.	22/Dec.	23/Dec.	27/Dec.	P-3Hr 28/Dec.	29/Dec.	30/Dec.
1	Asha Lakshmi	Asha	Asha	Asha	Asha	Asha	Asha	Asha
2	Ashitha	Ashitha.R	Ashitha.R	Ashitha.R	-	Ashitha.R	Ashitha.R	Ashitha.R
3	Meghana.V	Meghana.V	-	Meghana.V	Meghana.V	Meghana.V	Meghana.V	Meghana.V
4	Rakshitha Bai	Ra	Ra	Ra	Ra	Ra	Ra	Ra
5	Ulfath Banu.K	Ulfath	Ulfath	Ulfath	Ulfath	Ulfath	Ulfath	Ulfath
6	Bhoomika C N	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika
7	Chandana.B.S	Chandana	Chandana	Chandana	Chandana	Chandana	Chandana	Chandana
8	Jamuna	Jamuna	Jamuna	Jamuna	Jamuna	-	Jamuna	Jamuna
9	Kavya S	Kavya.S	Kavya.S	-	Kavya.S	Kavya.S	Kavya.S	Kavya.S
10	Pooja Kumari.H.N	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
11	Ravikiran.M.D	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
12	Ruchita T	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha	Ruchitha
13	Shalini.R	Shalini.R	Shalini.R	-	Shalini.R	Shalini.R	Shalini.R	Shalini.R
14	Shweetha Kumari	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha	Shwetha
15	Syed Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya	Saniya
16	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	Tejasvini.S	-
17	Tejasvini.V	Teja-V	Teja-V	Teja-V	Teja-V	Teja-V	Teja-V	Teja-V
18	Adarsha C P	Adarsh	Adarsh	Adarsh	Adarsh	Adarsh	-	Adarsh
19	Chandana.D	Chandana	Chandana	Chandana	Chandana	Chandana	Chandana	Chandana
20	Nagaratna C R	Nagaratna	Nagaratna	-	-	-	-	-
21	Priya C V	-	Priya	Priya	Priya	Priya	Priya	Priya
22	Priya.M.T	-	Priya	Priya	Priya	Priya	Priya	Priya
23	Rakshitha.T	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha	Rakshitha
24	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S	Srusti.S
25	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C	Manoj.C
26	Sariya Tehreen	Sariya	-	Sariya	Sariya	Sariya	Sariya	Sariya

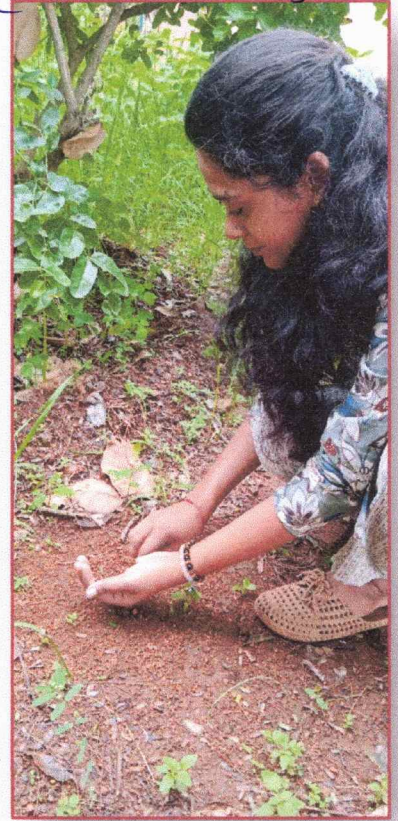
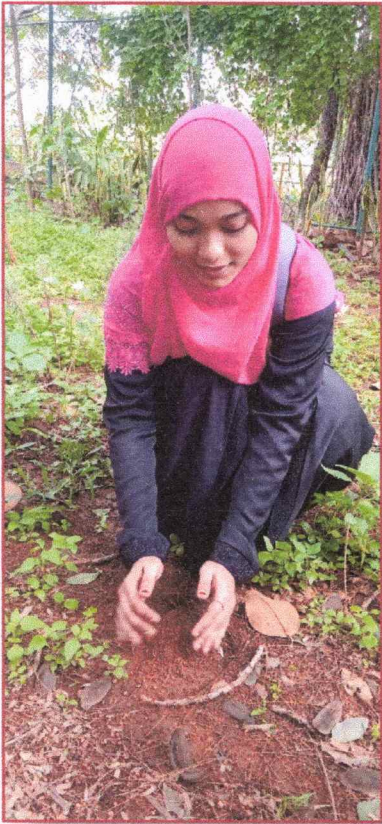



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Hi Road CHITRADURGA.



PHOTOS

Soil Sample collecting from the students in college campus. (Botanical garden)



Sample testing in a Laboratory

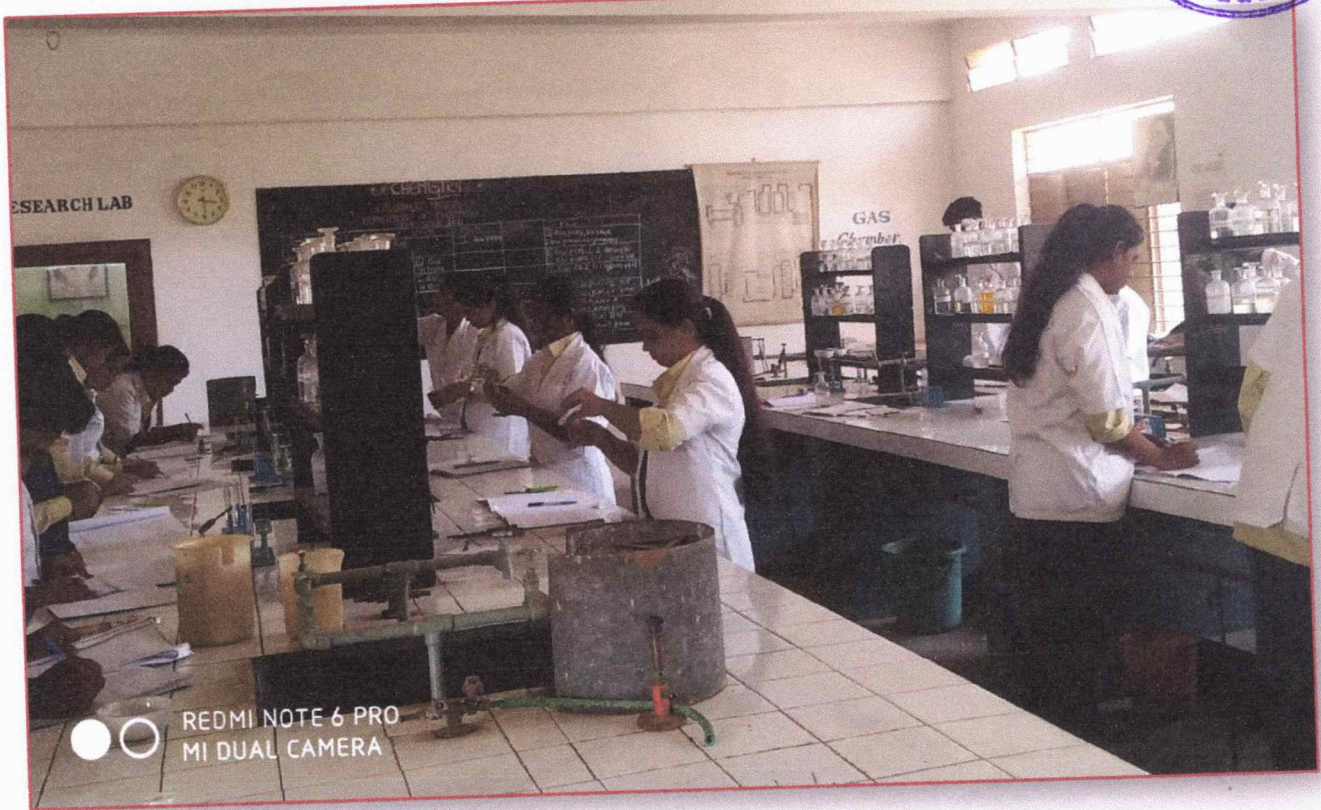


A handwritten signature in green ink, likely belonging to the principal.

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Commerce College



Sample testing in a laboratory



Sample testing in a laboratory.



[Handwritten signature]

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S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE
Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka



**Practical Examination for
Certificate Course
On
SOIL ANALYSIS**

Organized by
Department of chemistry

In Association With
IQAC
SJM College of Arts Science & Commerce
Chandravalli, Chitradurga


PRINCIPAL
S J M Arts Science &
Commerce College
Hik. Road, CHITRADURGA.

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE
Chandravalli, Chitradurga



DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23


PRACTICAL EXAM ATTENDANCE SHEET

Date: 3-01-2023


Batch-1


Time: 9.00AM

Sl.No	Name of the Students	Reg No	Combination	Signature
1	Asha Lakshmi	CHMSA001	II st B.Sc (C P)	Asha Lakshmi
2	Ashitha	CHMSA002	II st B.Sc (C M)	Ashitha R.
3	Meghana.V	CHMSA003	II st B.Sc (C M)	Meghana.V
4	Rakshitha Bai	CHMSA004	II st B.Sc (C M)	Rakshitha Bai
5	Ulfath Banu.K	CHMSA005	II st B.Sc (C M)	Ulfath Banu.K
6	Bhoomika C N	CHMSA006	II st B.Sc (C Z)	Bhoomika C.N
7	Chandana.B.S	CHMSA007	II st B.Sc (C Z)	Chandana.B.S
8	Jamuna	CHMSA008	II st B.Sc (C Z)	Jamuna.G
9	Kavya S	CHMSA009	II st B.Sc (C Z)	Kavya S
10	Pooja Kumari.H.N	CHMSA010	II st B.Sc (C Z)	Pooja Kumari H.N
11	Ravikiran.M.D	CHMSA011	II st B.Sc (C Z)	Ravikiran.M.D
12	Ruchita T	CHMSA012	II st B.Sc (C Z)	Ruchita
13	Shalini.R	CHMSA013	II st B.Sc (C Z)	Shalini.R

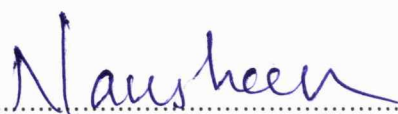

Signature of the Examiner 1

Date: 3-01-23

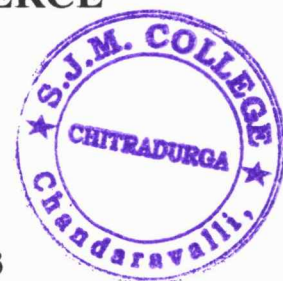

Name of the Examiner 1 in Block Letters


Signature of the Examiner 2

Date: 3-01-23


Name of the Examiner 2 in Block Letters

S.J.M. COLLEGE OF ARTS, SCIENCE AND COMMERCE
Chandravalli, Chitradurga



DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

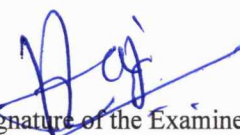
PRACTICAL EXAM ATTENDANCE SHEET

Date: 3/01/2023

Batch-2


Time: 12.30-PM

Sl.No	Name of the Students	Reg No	Combination	Signature
1	Shweetha Kumari	CHMSA014	II st B.Sc (C Z)	Shweetha Kumari C.N
2	Syed Saniya	CHMSA015	II st B.Sc (C Z)	Syeda Saniya S
3	Tejasvini.S	CHMSA016	II st B.Sc (C Z)	Tejasvini. S
4	Tejasvini.V	CHMSA017	II st B.Sc (C Z)	Tejasvini. v
5	Adarsha C P	CHMSA018	II st B.Sc (C- OE)	Adarsha c.p
6	Chandana.D	CHMSA019	II st B.Sc (C- OE)	Chandana D
7	Nagaratna C R	CHMSA020	II st B.Sc (C- OE)	AB
8	Priya C V	CHMSA021	II st B.Sc (C- OE)	Priya. cv
9	Priya.M.T	CHMSA022	II st B.Sc (C- OE)	Priya. MT
10	Rakshitha.T	CHMSA023	II st B.Sc (C- OE)	Rakshitha. T
11	Srusti.S	CHMSA024	II st B.Sc (C- OE)	Srusti. S
12	Manoj.C	CHMSA025	II st B.Sc (B Z)	Manoj. C
13	Sariya Tehreen	CHMSA026	II st B.Sc (B Z)	Sariya Tehreen


Signature of the Examiner 1

Date: 3/01/23

Raju. K.M.
Name of the Examiner 1 in Block Letters


Signature of the Examiner 2

Date: 3/01/23

Nausheen
Name of the Examiner 2 in Block Letters

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Practical Examination for Certificate Course on Soil Analysis
Organized by Department of Chemistry

RegNo :

CHMSA 012

Examination.....*Certificate course*.....Date...*3/01/2023*.....Month...*Jan*.....Year...*2023*.....

Candidate's Signature : *Puchitra*

Maximum Marks for i) Practical~~30~~ *20*.....
ii) Class Records.....*05*.....
iii) Viva.....*05*.....
iv) Any other.....*—*.....

Marks Awarded Question / Part 1:*28*.....
Question / Part 2:
Class Records:*05*.....
Viva:*04*.....
Any other.....*—*.....

Total 37

Marks Awarded in Words.....*Thirty Seven only*.....

[Signature]
Signature of the Examiner 1

Date *3/01/23* *Raju. K. M.*
Name of the Examiner 1 in Block Letters

[Signature]
Signature of the Examiner 2

Date *3/01/23* *Nausheen*
Name of the Examiner 2 in Block Letters



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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

THEORY EXAM ATTENDANCE SHEET

Date: 2-01-23

Time: 10 - 12:00 PM

Sl.No	Name of the Students	Reg No	Combination	Signature
1	Asha Lakshmi	CHMSA001	II st B.Sc (C P)	Asha Lakshmi
2	Ashitha	CHMSA002	II st B.Sc (C M)	Ashitha. R
3	Meghana. V	CHMSA003	II st B.Sc (C M)	Meghana. V
4	Rakshitha Bai	CHMSA004	II st B.Sc (C M)	Rakshitha. S
5	Ulfath Banu. K	CHMSA005	II st B.Sc (C M)	Ulfath Banu. K
6	Bhoomika C N	CHMSA006	II st B.Sc (C Z)	Bhoomika. C. N.
7	Chandana. B. S	CHMSA007	II st B.Sc (C Z)	Chandana. B. S
8	Jamuna	CHMSA008	II st B.Sc (C Z)	Jamuna. G.
9	Kavya S	CHMSA009	II st B.Sc (C Z)	Kavya. S
10	Pooja Kumari. H. N	CHMSA010	II st B.Sc (C Z)	Pooja Kumari. H. N
11	Ravikiran. M. D	CHMSA011	II st B.Sc (C Z)	Ravikiran. M. D
12	Ruchita T	CHMSA012	II st B.Sc (C Z)	Ruchita
13	Shalini. R	CHMSA013	II st B.Sc (C Z)	Shalini. R



Sl.No	Name of the Students	Reg No	Combination	Signature
1	ShweethaKumari	CHMSA014	II st B.Sc (C Z)	Shweetha Kumari
2	Syed Saniya	CHMSA015	II st B.Sc (C Z)	Syeda Saniya.S
3	Tejasvini.S	CHMSA016	II st B.Sc (C Z)	Tejasvini.S
4	Tejasvini.V	CHMSA017	II st B.Sc (C Z)	Tejas.V
5	Adarsha C P	CHMSA018	II st B.Sc (C- OE)	Adarsha.C.P.
6	Chandana.D	CHMSA019	II st B.Sc (C- OE)	Chandana.D
7	Nagaratna C R	CHMSA020	II st B.Sc (C- OE)	AB -
8	Priya C V	CHMSA021	II st B.Sc (C- OE)	Priya.C.V.
9	Priya.M.T	CHMSA022	II st B.Sc (C- OE)	Priya.M.T
10	Rakshitha.T	CHMSA023	II st B.Sc (C- OE)	Rakshitha.T.
11	Srusti.S	CHMSA024	II st B.Sc (C- OE)	Srusti.S
12	Manoj.C	CHMSA025	II st B.Sc (B Z)	Manoj.C
13	SariyaTehreen	CHMSA026	II st B.Sc (B,Z)	Sariya Tehreen

Name of the Invigilator

: Nausheen

Signature

: 

Date & Time



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**CERTIFICATE COURSE
ON
SOIL ANALYSIS**

**Final Examination 2022-23
QUESTION PAPER - THEORY**

Time : 3 Hrs.

Max. Marks – 60

Answer the following questions – Each 10 Marks.

1. What is a Soil & Explain concept of Lithosphere, Soil components and mention its types.
 2. Explain the physical properties of Soil
 3. Discuss the Chemical properties of Soil
 4. Write a note on
 - i) Types of irrigation & land use classification
 - ii) Plant & animal waste, Municipal & Industrial by products and their impact
 5. Explain the Soil profile, Soil forming factors, soil survey methods and soil survey reports
 6. Describe the Soil distribution & classification system
-

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DEPARTMENT OF CHEMISTRY
CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

1. Register No.

C	H	M	S	A	O	I	2
---	---	---	---	---	---	---	---

2. Candidate Name... Ruchita.T.

3. Degree..... B.Sc.

4. Exam (Year/Semester).... Certificate Courses..

5. Subject..... Soil analysis

6. Exam Date ... 02.01.2023.


Candidate

Signature : Ruchita.T.

Invigilator

Signature :

Name


NAUSHEEDA

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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

Section A

Section B

Qn.	Marks		Total Marks	Qn.	Marks		Total Marks
	A	B			A	B	
1			08	9			
2			10	10			
3			10	11			
4	5	4	09	12			
5			08	13			
6			09	14			
7			1	15			
8				16			
		Sub Total	54			Sub Total	

Grand Total

54/60

Grand Total in Words...

Fifty four only

Name & Signature of the Examiner

NAUSHEEN

Date...

02-01-23

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DEPARTMENT OF CHEMISTRY CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

THEORY WORK SHEET

Sl. No	Reg No	Theory (Max:60)
1	CHMSA001	53
2	CHMSA002	55
3	CHMSA003	50
4	CHMSA004	52
5	CHMSA005	49
6	CHMSA006	50
7	CHMSA007	51
8	CHMSA008	53
9	CHMSA009	55
10	CHMSA010	50
11	CHMSA011	45
12	CHMSA012	54
13	CHMSA013	54
14	CHMSA014	52
15	CHMSA015	49
16	CHMSA016	52
17	CHMSA017	56
18	CHMSA018	47
19	CHMSA019	50
20	CHMSA020	AB.
21	CHMSA021	53
22	CHMSA022	50
23	CHMSA023	49
24	CHMSA024	53
25	CHMSA025	45
26	CHMSA026	49

Examiner

Name : NAUSHEEN

College/Designation

Signature :

Date & Time : 02-01-23

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DEPARTMENT OF CHEMISTRY
CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

PRACTICAL/RECORD WORK SHEET

Date: 03-01-23

Batch-1

Time: 9.00 AM

Sl. No.	Reg No	Practical (Max:40)
1	CHMSA001	38
2	CHMSA002	36
3	CHMSA003	36
4	CHMSA004	39
5	CHMSA005	35
6	CHMSA006	35
7	CHMSA007	36
8	CHMSA008	34
9	CHMSA009	39
10	CHMSA010	37
11	CHMSA011	30
12	CHMSA012	37
13	CHMSA013	37

Examiner 01

Examiner 02

Name :

Klausheen

Raj

College/Designation :

Signature :

Klausheen

Raj K M.

Date & Time :

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CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23



PRACTICAL/RECORD WORK SHEET

Date: 03-1-23

Batch-2

Time: 12.30 PM

Sl. No	Reg No	Practical (Max:40)
01	CHMSA014	36
02	CHMSA015	37
03	CHMSA016	38
04	CHMSA017	39
05	CHMSA018	30
06	CHMSA019	34
07	CHMSA020	AB
08	CHMSA021	36
09	CHMSA022	38
10	CHMSA023	35
11	CHMSA024	39
12	CHMSA025	30
13	CHMSA026	34

Examiner 01

Examiner 02

Name

: Nausheen

College/Designation

:

Signature

:

Raju. K. M.

Date & Time

:



REPORT

The Department of Chemistry, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga has conducting Certificate Course on “Soil Analysis” to the B.Sc. Students associated with IQAC in the period of 15-11-2022 to 30-12-2022.

Water and Sun are essential for sustenance no living being on the planet earth can survive without it. It is a prerequisite for human health and well being as well as for the preservation of the environment.

This course will discuss analytical methods and theories to determine soil quality of different a site of the College campus. We will also discuss the approaches that may be taken to improve the quality of soil and conservation. The course will also cover soil remediation and safeguard techniques for the improvement of soil. The training aims at employability in the Soil analytical lay as Analyst and Supervisors.

The Certificate will be authorizes by the Principal of the College and Director and Co ordinator of the Program. The objectives of the course to inculcate scientific temperament among the students to take up learning with scientific approach and to promote awareness among the students to take agriculture and industry by applying Scientific measures.

The learning outcomes of this course will also deal with a broad overview of Geo Chemistry and fertility status of Soils.

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Course outcome

- * After Completion of the Skills necessary for Soil resource management.
- * To apply knowledge of Chemistry and Geology.
- * To have knowledge of contemporary issues.
- * To identify, formulate and solve environmental problems.
- * To recognize the need for, and an ability to engage in life-long learning.


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SJM Vidyapeetha (R), Chitradurga

SJM COLLEGE OF ARTS, SCIENCE & COMMERCE

Chandravalli, Chitradurga - 577501

Affiliated to Davangere University, Davangere

Accredited with 'A' Grade Third Cycle (CGPA-3.05)



DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Mr/MrsRUCHITHA T..... Of B.Sc.
has successfully completed Certificate Course in "SOIL ANALYSIS" during the
Academic Year 2022-23.


Coordinator


Head of the Department


Principal
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