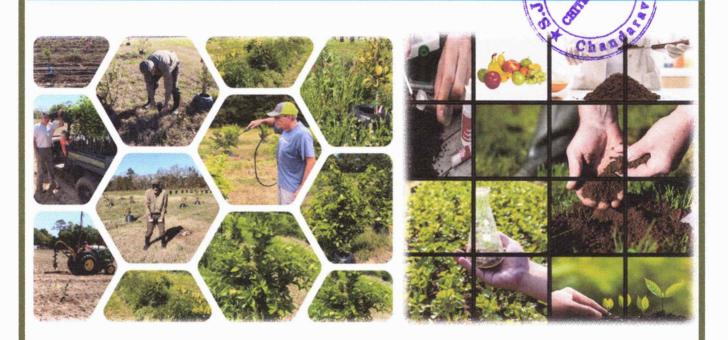


SRI JAGADGURU MURUGHARAJENDRA COLLEGE OF ARTS, SCIENCE & COMMERCE

CHANDRAVALLI, CHITRADURGA-577502

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



CERTIFICATE COURSE

ON

SOIL ANALYSIS

From 15thNovember to December 30th, 2022

2022-23

Organized by

DEPARTMENT OF CHEMISTRY

In Association with

IQAC

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

Chandravalli, CHITRADURGA-577501.



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: Chitrodurge Date: 05-11-2022

Your's faithfully

Co-Ordinator

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

Chandravalli, CHITRADURGA-577501.



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: Chitrodurge Date: 05-11-2022

Your's faithfully

Co-Ordinator

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. 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:

Lecieved R. 1-

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.

Principal

S. J. M. Arts Science & Commerce College

MIK ROAD, 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

OFFICEORDER

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.

-11-2022

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

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,

Jourse Janes

(DPRINCIPLAMESh)
S J. M. Arts Science &
Commerce College
Hik Road CHITRADURGA

Date: 07-11-2022

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

CIRCULAR

Date & - 11 - 2022

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	COMP
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	Illu
03	Sri Nagraja B Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Member	B-1-
04	Smt. Manasa J Assistant Professor, HPPC Govt First Grade College,Challakere	Member	of floors a

PRINCIPAL
S. J. M. Arts Science &
Commerce College
Hilk Road 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

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,

PRINCIPAL
S J M Arts Science &
Commerce
HIS Read Charles

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 you're honorable Service as a Member of Board of Studies for this Certificate Course

Thanking you,

Hours I Jonover (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-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,

Reind.

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

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	Comp
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	Dleu
03	Sri Nagraja B Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Member	B. N.
04	Smt Manasa J Assistant Professor, HPPC Govt First Grade College, Challakere	Member	& Campera

Dr.K.C. Ramesh

EOU)

CHITRADURG!

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

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

Chandravalli, CHITRADURGA-577501. Post Box No.88, Karnataka
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BOS Meeting Proceedings of Certificate course on Soil Analysis

The BOS meeting of Certificate course on Soil Analysis was held under the charman ship 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	 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

a) Johnson

3) B. Ar. Nagaraja. R

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

	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
	 BooksRecommended Fundamentals of soil science,foth,H.D.WileyBooks. Soil Science and Management, Plaster,EdwardJ.,Delmar Publishers. Principles of Soil Chemistry(2Wed.) Marcel DekkerInc.,NewYork. 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) Mongunatha Swary, H.M.

a) & Convolo

3) Alegaraja B. K. 1 -.

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) Man usotha Swamy. H. M.

3) Alacaraja-B.

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

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,

Principal

PRINCIPAL
S J M Arts Science (
Commerce College

HIK ROAD 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

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,

Date: C

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

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)	Ocha dak shmi.
2	Ashitha	II st B.Sc (C M)	Dehitha. R.
3	Meghana.V	II st B.Sc (C M)	Meghana,v
4	Rakshitha Bai	II st B.Sc (C M)	Rakshetha bal, 3
5	Ulfath Banu.K	II st B.Sc (C M)	Whath Banu.k
6	Bhoomika C N	II st B.Sc (C 💋)	Broomika. C.N
7	Chandana.B.S	II st B.Sc (C Z)	chandana.B.S
8	Jamuna	II st B.Sc (C Z)	Januna. G
9	Kavya S	IIst B.Sc (C Z)	Jaega B
10	Pooja Kumari.H.N	IIst B.Sc (C Z)	Poofer KunwathN
11	Ravikiran.M.D	IIst B.Sc (C Z)	Ravilaisean M.D
12	Ruchita T	II st B.Sc (C Z)	Ruchitua.
13	Shalini.R	II st B.Sc (C Z)	Shalini. R
14	Shweatha Kumari	IIst B.Sc (C Z)	Shwether Kumavi. C.N.
15	Syed Saniya	IIst B.Sc (C Z)	Systemyon.
16	Tejasvini.S	IIst B.Sc (C Z)	Tejanoini 2
17	Tejasvini.V	II st B.Sc (C Z)	940 V
18	Adarsha C P	IIst B.Sc (C- OE)	Adazah Cip
19	Chandana.D	IIst B.Sc (C- OE)	Chandana.D
20	Nagaratna C R	IIst B.Sc (C- OE)	-
21	Priya C V	IIst B.Sc (C- OE)	Diga. C.V-
22	Priya.M.T	IIst B.Sc (C- OE)	Dong. M.T.
23	Rakshitha.T	IIst B.Sc (C- OE)	4]
24	Srusti.S	IIst B.Sc (C- OE)	Bambi e
25	Manoj.C	II st B.Sc (B Z)	Manoje C
26	Sariya Tehreen	IIst B.Sc (B Z)	Soriya Tehreem.

PRINCIPAL S J M Arts Science &

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										
TUESDAY	P									Soil Analysis NB
WEDNESDAY	R A							Soil A	nalysis (I NB	Practical)
THURSDAY	Y E									Soil Analysis NB
FRIDAY	R						^			Soil Analysis NB
STUARDAY					,					

B-N

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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



SOIL ANALYSIS

2022-23

ATTENDANCE REGISTER

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

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Ashitha Bai Meghana V Meghana Meghana Meghana Meghana Meghana Meghana Meghana V Meghana Meghan		Name of the Student	15/Nov.	17/Nov.	18/Nov.			24/Nov.		29/Nov.		01/Dec.
Ashitha Bai Meghana V Meghana Meghana Meghana Meghana Meghana Meghana Meghana V Meghana Meghan	1	Asha Lakshmi	Alle	delle	Alle	Olle	_	Della	Alle	July	asho!	Alle
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9 Kaya S Raya	8	Jamuna	Jamuna.	Janura.G		Jamura	100			Jamuna	Jamuna	
12 Ruchita T Ruchita Buchin Ruchin R	9	Kavya S			Houga, S		Haya.S	Haup . S	Laugo.S	Laures	Lays S	Laugas
12 Ruchita T Ruchita Buchin Ruchin R	10	Pooja Kumari.H.N	Pooja	Pooja	Poopo	Poopo	Pogia	Poora	Poorci	Poojel	V 6	Pooja.
Ruchita T Ruchita T Ruchita Buchin Ruchita R	11	Ravikiran.M.D	Ravi	Raui		Raui			Gani	Raui	Raus	Raus.
Shalini.R Shalin	12	Ruchita T					Ruchites	Ruchetta				Purhiting
Shwetha Kumari Streetha Shutta Shutt	13	Shalini.R	Shalini. R	Shalinia	Shalini, R						shalint.R	shalini.R
Tejasvini.S Tejanwini.S Tejaw	14	Shweatha Kumari	Stwetha			Shwetta	Shuthe	Shwetha	Shwotha	Shwetha	Showtha	Shwetta
Tejasvini.S Tejanwini.S Tejaw	15	Syed Saniya	Sanzya	Santya	Sanzus	Sanya	Sanzua	Sanya	Sanzya	Soneya	Santya	Santy a
18 Adarsha CP Adarsha CP Adarsha CP Chandana.D Chandana.D Chandana.D Chandana.D Chandana.Chandana Chandana Chandana Chandana Chandana Chandana CR Priya CV Priya CV Priya M.T 23 Rakshitha.T Lakshitha Rakshitha Rakshit	16	Tejasvini.S	Tejanwini.s				Teganwinis	Tejanwinis	rejacushis	tejanwinis	tejacwini s	
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20 Nagaratna CR 21 Priya CV 22 Priya.M.T 23 Rakshitha.T 24 Srusti.S 25 Manoj.C Nagaratna CR New Priya	19	Chandana.D	Chandanas	schandona	chandaro	. /	Λ Λ	1 1		1 1	1 4	chardons
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24 Srusti.S Brusti.S Brusti.S Brusti.S Brusti.S Brusti.S Country Brusti.S Country Brusti.S Manoj.C Man	22	Priya.M.T	sino	less o	Jerra	Donne	V .	Brys		-	U -	prose.
25 Manoj. C Manoje	23	Rakshitha.T	Laksholi		Rokshoh		A					
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26 Sariya Tehreen Saliya	25	Manoj.C		Managle	Manoje	Mome)-C		manage				nomojic
	26	Sariya Tehreen	Salua	- 6	_ []	Solite	Laura	Salino	Sama	Laura	Sacrula	Parina
										3		

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

				•						//	1
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/Decurga
1	Asha Lakshmi	alla	Osha	Olsha	onha	Della 1	Okha 1	Opher	1	Olely 1	Alle !
2	Ashitha	Dehitha &	Achitha. R	Duhitha.R	_	Ashi Hase	Ashe than R	Skithar.	Ashitto.R	dishirtha.R	MITH
3	Meghana.V	Meghanav	Meghanav		Megharas	Meghaval	Meghawi	_	Heghanav	Meghanav	Meghanav
4	Rakshitha Bai	Ri	Ra	Ra	Re	Per	Ro	Rg	120	Ro	, Re
5	Ulfath Banu.K	Wath	whath	Walk	With	_	Wath	whath	Wall	Math	Wath
6	Bhoomika C N	Dhoonika	Thomaka	Shoomile	Phomika	Bhoomike	Bhoonika	Shooni	Dhoomik	Bhoomik	a Bhoonika
7	Chandana.B.S	-	Churdana	chandana	Urandana	Mandana	chandana	_	chandana	Mandana	
8	Jamuna /	Jamura	Jamura	~	Januna	Jamura	Jamuna	-	Jamuna	Januna.	Jamuna
9	Kavya S	Jan S	_	Hayas	Layos.	Javaps.	Laura, S	_	Laup.S	Jack ?	Layos
10	Pooja Kumari.H.N	1000	Roja	1009a	Poorti	Pooja	Poofa.	Paoja	Pooja	Vooja	Poora
11	Ravikiran.M.D	Paui	~	Pari	Paci	Raci	Traui	Place"	Rawi	4 Law	Raci
12	Ruchita T	Ruchitha	Ruchitha	Ruchitha	Ruchitho	Ruchitha	Ruchitho	Ruchitho	Ruchetho	Ruchitha	Auchitu 9
13	Shalini.R	Shalini.R	Shalini, R	Shalini.R	Shalini.R	Shalini R	Shalini.	Shalini D	Shalinil	Shalinik	Shalini-R
14	Shweatha Kumari	Shwether	-	Shretha	Shoutha	Shwetha	Shwetha	Shwetha	Shwetha	Shoutha	Shutha
15	Syed Saniya	Sariya	Sanya	Naniya	Baneya	Sanzya	Sanzya	Sanga	Santya	Sariya	Sanzya
16	Tejasvini.S	Tejanwinis	Tejanwini.s	Tejanwinis			Tejanwini.s	Tejanwini.S	Tejaawinis	Téjanaini.S	Tejanwin i.S
17	Tejasvini.V	Tej alumiv	Tejalioni V	Jejalumi ;	9 yalurnir	Jejaqueni.v	Lejalwini V	Tejasimiv	Zjaswini V	Jejal sini ,	Tyaswin v
18	Adarsha C P	Adavar	Adermy	Adaran	Adavay	-	Adoray	adage	Adorey	Adara	Adoron
19	Chandana.D	Chandana	Choudero	Charolano	• ~	Chardon	chandone	Charda	Chandon	Charders	chardara
20	Nagaratna C R	_	_	_		_	-	1-		_	_
21	Priya C V	poryou	Proper	Donyn-	Burn	porya	myn	Polyen	Proya	Porma	Prsyg
22	Priya.M.T	condo	Poyra	Toric	Cento	Leens	besto	ans		Busho	and.
23	Rakshitha.T	Bakelith	Rakehik	Lakshith	Pakeheth	Rokshithe	Rakehith	Likelitha	Lokelin	Lockehitha	Lakehithe
24	Srusti.S	amba-s	@min 5	Brush 3	(Burnes	Canaliti-S	& ruhar &	Quilti.	Quitis	anish 3	(Junuary
25	Manoj.C	Manueja	momofit	manofic	manejic	Manage	manojec	manofic	Momoja	manof (Manage
26	Sariya Tehreen	Suya	- (Saligo	_	Barrier	Salya	Salya	_	Pariyo	(Sarya
		U		7		•	1				1800

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	ARly	Alla	alle	Asha	Okly	alle	Alle.
2	Ashitha	Ashitha.R	Ashitha R	dehither		Dehitha. R	duhitha.R	Shitha.R
3	Meghana.V	Meghanav	_	Meghanis	Meghana V	Mcghaus.U	Meghanev	19 eg hamis
4	Rakshitha Bai	Ra	Pec	R	Re	Re	Ro	Ra.
5	Ulfath Banu.K	whalt	whath	Weath	thefu	Whath	Wath	Wath
6	Bhoomika C N	Phecemila	Bhoomila	Bheomila	Dhoemika	Bhoemika	Bhoomika	Dhamika
7	Chandana.B.S	Chundana	drandara	chandana	Chandra	chandana	chandana	
8	Jamuna	Januara	Jamuna	Jamura	Tamuna	_	Tamuna	Jamuna
9	Kavya S	Laures S	Laugo S	_	Laup. S	Laup.S	Jaces S	Laure, S
10	Pooja Kumari.H.N	Paopu	Poopa	Pooja	Poofa	Pooja	Pooja	Pooja.
11	Ravikiran.M.D	Grand	Rawi	Raus	Raus	Raw	(Kacci	Paul.
12	Ruchita T	Ruchitho	Puchitha		_	Lucuitia	1 2	1 ~ 1
13	Shalini.R	Shalini. R	Shalini.R		Shalini.R			Shalini.R
14	Shweatha Kumari	Shwether	Shoutha	Shwetha	Showtha	Shwethe		Shoetha
15	Syed Saniya	Sanzya	Sarlya		Sanzya	Santya	Sanya	Sange
16	Tejasvini.S	Tejapwinis		Tejan wini	Tejanoini.s	Tegarionis	Tejanwini.s	
17	Tejasvini.V	Teja-V	700 -V	7eja-V	Jero V	Jeje V	Jejes-W	Juje V
18	Adarsha C P	addersu	Adarsy	Aderas	ddavsy	Adark	v -	Adamy
19	Chandana.D	Chandre	chardaro	Cha volore	Chandan	Chandau	Chardan	Chandons.
20	Nagaratna C R	weger	Nespor	_	_	~	_	_
21	Priya C V	_	Dry	propa	Druja	prya	Dryc	Pringa
22	Priya.M.T	-	ando	Corre	me	Compe	Torys	Prive
23	Rakshitha.T	Rakshith	Rokehifea		Zakhih	Rakshith	Lakehitha	
24	Srusti.S	8 montes	(8 miles	(8 multis	Penghas	(Penaltos	8-martis	Cambrias
25	Manoj.C	Manoj C	manoj'E	Manoje	money.c	manoja	Maroje	Monofa
26	Sariya Tehreen	Source	<i>-</i>	Soviya	Sariya	Sauce	Ballio	Source

CHITRADURGA *

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PHOTOS

Soil Sample collecting form the studies in college campus. (Botanical garden),







COLLE

Sample testing in a laboratory



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sample testing a in a Laborator CHITPADURGA



COLL

Sample testing in a laboratory.



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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

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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. work

Sl.No	Name of the Students	Reg No	Combination	Signature
1	Asha Lakshmi	CHMSA001	II st B.Sc (C P)	Asha lak shmis
2	Ashitha	CHMSA002	II st B.Sc (C M)	Shitha. R.
3	Meghana.V	CHMSA003	II st B.Sc (C M)	Meghana.V
4	Rakshitha Bai	CHMSA004	II st B.Sc (C M)	Raksteha 8
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)	Kaupas
10	Pooja Kumari.H.N	CHMSA010	II st B.Sc (C Z)	Toofa human 4N
11	Ravikiran.M.D	CHMSA011	II st B.Sc (C Z)	Raulkisay. M.I
12	Ruchita T	CHMSA012	II st B.Sc (C Z)	Ruchitha
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

Paju.1CM

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	Shweatha Kumari	CHMSA014	II st B.Sc (C Z)	Shwetha Kumawi.c.N
2	Syed Saniya	CHMSA015	II st B.Sc (C Z)	Syeda Sanzya 8
3	Tejasvini.S	CHMSA016	II st B.Sc (C Z)	Tejanwani. S
4	Tejasvini.V	CHMSA017	II st B.Sc (C Z)	Tejacurni v
5	Adarsha C P	CHMSA018	IIst B.Sc (C- OE)	Adarah cip
6	Chandana.D	CHMSA019	IIst B.Sc (C- OE)	Chandana D
7	Nagaratna C R	CHMSA020	IIst B.Sc (C- OE)	AB.
8	Priya C V	CHMSA021	IIst B.Sc (C- OE)	myh. cv.
9	Priya.M.T	CHMSA022	IIst B.Sc (C- OE)	Brya-MFT
10	Rakshitha.T	CHMSA023	II st B.Sc (C- OE)	Lakshitha. T
11	Srusti.S	CHMSA024	II st B.Sc (C- OE)	Quish's
12	Manoj.C	CHMSA025	IIst B.Sc (B Z)	Manofic
13	Sariya Tehreen	CHMSA026	IIst B.Sc (B Z)	Sariya Tehreem

Signature of the Examiner 1

Date 3 01 27

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-577501. Post Box No.88, Karnataka

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

RegNo:		CHMSA 012				
Examination Certificate Course 3/01/2023 Month Jan Year 2023.						
Candidate's Signature	: Ruchitha					
Maximum Marks for	i) Practical					
	ii) Class Records					
	iii) Viva					
	iv) Any other					
Marks Awarded	Question / Part 1:					
	Question / Part 2:					
	Class Records:					
	Viva: 04					
	Any other	,				
	Thinks Co. Alm	otal 37				
Marks Awarded in Wo	Marks Awarded in Words. Thirty Sense Comp.					
Date 3.10.1.123 Rayu 10 m.						
Signature of the	Examiner 1 Name of the Examin	er 1 in Block Letters				
Nashu	Date 101/20 Naush	een				
Signature of the Exami						

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

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

THEORY EXAM ATTENDANCE SHEET

Date: 2-01-23

Time: 10 - 12: MM

Sl.No	Name of the Students	Reg No	Combination	Signature
1	Asha Lakshmi	CHMSA001	II st B.Sc (C P)	Artha levelbris
2	Ashitha	CHMSA002	II st B.Sc (C M)	Ashitha R
3	Meghana.V	CHMSA003	II st B.Sc (C M)	Meghanay
4	RakshithaBai	CHMSA004	II st B.Sc (C M)	Raksletha. S.
5	UlfathBanu.K	CHMSA005	II st B.Sc (C M)	Wath Bone K
6	Bhoomika C N	CHMSA006	II st B.Sc (C Z)	Bhoomilea. C. W.
7	Chandana.B.S	CHMSA007	II st B.Sc (C Z)	Chandana. 13.5
8	Jamuna	CHMSA008	II st B.Sc (C Z)	Jammuna . g.
9	Kavya S	CHMSA009	II st B.Sc (C Z)	Kauya, 8_
10	PoojaKumari.H.N	CHMSA010	II st B.Sc (C Z)	Powa Kumoni H. N
11	Ravikiran.M.D	CHMSA011	II st B.Sc (C Z)	Raviferane M. J
12	Ruchita T	CHMSA012	II st B.Sc (C Z)	Ruchitha
13	Shalini.R	CHMSA013	II st B.Sc (C Z)	Shalini. R

Sl.No	Name of the Students	Reg No	Combination	Signature
1	ShweathaKumari	CHMSA014	II st B.Sc (C Z)	Shewetha Dinas
2	Syed Saniya	CHMSA015	II st B.Sc (C Z)	Syeda Sanaya. S
3	Tejasvini.S	CHMSA016	II st B.Sc (C Z)	Ter gwen; I
4	Tejasvini.V	CHMSA017	IIst B.Sc (C Z)	Jeju V
5	Adarsha C P	CHMSA018	IIst B.Sc (C- OE)	Ades her . Cp.
6	Chandana.D	CHMSA019	IIst B.Sc (C- OE)	Chandenga D
7	Nagaratna C R	CHMSA020	IIst B.Sc (C- OE)	AB-
8	Priya C V	CHMSA021	IIst B.Sc (C- OE)	Priya. CN.
9	Priya.M.T	CHMSA022	IIst B.Sc (C- OE)	Course will
10	Rakshitha.T	CHMSA023	II st B.Sc (C- OE)	Rakshitha. T.
11	Srusti.S	CHMSA024	IIst B.Sc (C- OE)	Marghorist.
12	Manoj.C	CHMSA025	IIst B.Sc (B Z)	Manoje
13	SariyaTehreen	CHMSA026	IIst B.Sc (B,Z)	Sarya Tehoreen

Name of the Invigilator

Signature

Date & Time

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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.	CH	M	2	A	O	1	2		
Candidate Name Puchtant									
3. Degree	.c								
4. Exam (Year/Semes	ter)C.6	of it	-, · co	J.C.	Co	UN PH	ŧ		
5. Subject	5. Subject Soil amalysis.								
6. Exam Date 0.2012023									
Candidate									
Signature: Ruchitha T									
Invigilator \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									
Signature:									
Name NAUSHEEN									

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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE ON SOIL ANALYSIS 2022-23

Section A

Section B

On	Ma	ırks	Total	On	Ma	ırks	Total	
Qn.	A	В	Marks	Qn.	A	В	Marks	
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

Grand Total in Words. Lifty four Comy

Name & Signature of the Examiner NAVSHEEN

Date 02-01-23

Commerce College HIK Road CHITRADURGA.

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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	CI
3	CHMSA003	50
4	CHMSA004	52
5	CHMSA005	49
6	CHMSA006	50
7	CHMSA007	51
8	CHMSA008	63
9	CHMSA009	(1)
10	CHMSA010	50
11	CHMSA011	45
12	CHMSA012	54
13	CHMSA013	(-4
14	CHMSA014	52
15	CHMSA015	49
16	CHMSA016	52
17	CHMSA017	56
18	CHMSA018	47
19	CHMSA019	50
20	CHMSA020	AR.
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

Mm 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 pm

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

College/Designation

Signature

Date & Time

Mausheen Frys.: Volume Paju. 1c. m.

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DEPARTMENT OF CHEMISTRY 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	DR.
08	CHMSA021	36
09	CHMSA022	38
10	CHMSA023	35
11	CHMSA024	19
12	CHMSA025	30
13	CHMSA026	34

Examiner 01

Name

Mausheen

College/Designation

Signature

Nohen

Rajuik M.

Examiner 02

Date & Time

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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

Coordinator

Head of the Department

Principal
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Hilk Road CHITRADURGA