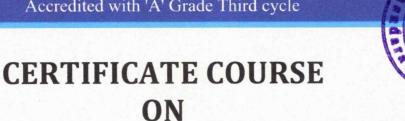


SRI JAGADGURU MURUGHARAJENDRA **COLLEGE OF ARTS, SCIENCE & COMMERCE**

CHANDRAVALLI, CHITRADURGA-577502

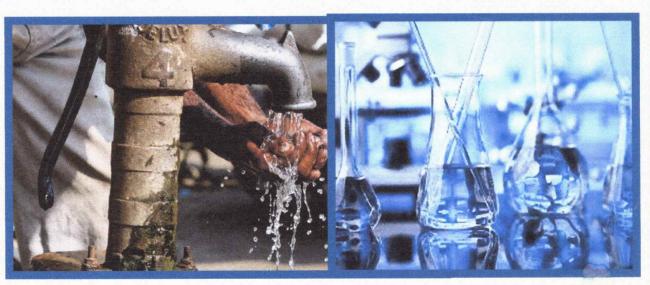
Affiliated to Davangere University, Davangere Accredited with 'A' Grade Third cycle



GROUND WATER ANALYSIS

From: 26-08-2022 To 25-09-2022

2021-22



Organized by

DEPARTMENT OF CHEMISTRY

ASSOCIATION WITH IQAC



S J M COLLEGE OF ARTS, SCIENCE & COMMERCE

Chandravalli, CHITRADURGA – 577501 Email.: sjmasccta@rediffmail.com Web: www.sjmcascchitradurga.edu.in Contact No.:

ABOUT THE COLLEGE

Sri Jagadguru Murugharajendra College of Arts Science & Commerce (SJMC), Chitradurga was popularly known as SJM College of Arts, Science & Commerce, Chitradurga was established on 1st June 1969 managed by S.J.M. Vidyapeetha (R.) which was established in 1966. It is one of the premier colleges established to impart & provide in the field of higher education for the deserving candidates and prove to be a milestone in the part of progress.

The college is at present affiliated with Davangere University, Davangere. Formerly affiliated with Kuvempu University, Shivamogga and it is recognized by the University Grants Commission (UGC) under section 2(f) and 12(B) on 31st March 1971 under Act. 1956. It is re-accredited by National Assessment and Accreditation Council (NAAC) with "A" Grade (CGPA Score 3.05 on a 4 Point Scale in 3rd Cycle) on 28the March, 2017.

Sri Jagadguru Murugharajendra College of Arts, Science, and Commerce (S.J.M) is one of the reputed institutions which is well administered and offered good infrastructure, facilities and excellent academic activities in Chitradurga which is in the state of Karnataka and this college excels not only in academic activities but also in Extra curricular activities and in Sports too. The college to produce intellectually strives competent, morally upright and strong, compassionately committed, spiritually inspired and nationally dedicated men and women.

At present, the college is situated in a splendid place called Chandravalli,

which has a panoramic view of mountains, greeneries, caves and historically significant Chandravalli Tank on Holalkere Road in outskirts of the city. The college is built on a land of 10 acres with all necessary infrastructures. The college offers three years undergraduate courses in B.A, B.Sc, and B.Com.

The college aims at an integral and personalized education of the young by providing well planned undergraduate courses like Arts, Science and Commerce streams. The College has a fine team of qualified, experienced and dedicated faculty and staff members.

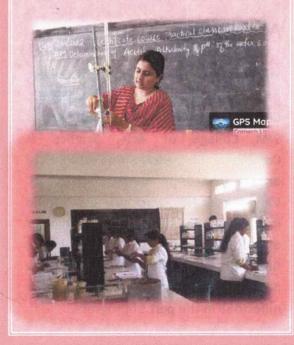
Value based and skill based initiatives are given priority in each department. Community Oriented Programs such as Reaching the Unreached, Service Beyond Self, creating opportunities for re-energing students.

Admissions in the institutions are according to the norms of Davangere University and Regulations of Government of Karnataka. In the beginning of every academic year, one orientation program is conducted for degree students to familiarize them

with the nature of courses offered, semester system, tests, assignments, project works, attendance and all the facilities available in the college.

ABOUT THE DEPARTMENT

The department of Chemistry was established in the year 1969. The major objective of the department is to impact high quality education and to encourage to the students in persuing research. Our department has good infrastructure and facilities to being practical knowledge with Global competition environment.



DEPARTMENT FACULTY



Dr. K.C. Ramesh Principal



Prof. H.M. Manjunatha Swamy HOD



B. Nagaraja Asst. Prof.



Dr. Harshavardhan A Asst. Prof.

http://www.sjmcascchitradurga.edu.in email:___asccta@rediffmail.com ಎಸ್.ಜೆ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.), ಚಿತ್ರದುರ್ಗ

ಜ್ ಕಛೇರಿ : 08194-222506

ಶ್ರೀ ಜಗದ್ಗುರು ಮುರುಘರಾಜೇಂದ್ರ ಕಲ್ಕಾ ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ ವಾಣಿಜ್ಯ

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SRI JAGADGURU MURUGHARAJENDRA GOLLEGE OF ARTS, SCIENCE & COMMERCE

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka

NAAC Reaccredited with 'A' Grade CGPA 3.05

ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/ 20 -20

ದಿನಾಂಕ : 20/8/22

Notice

It is hereby informed to all the B.Sc students that, the college starts the offline Certificate course on Water Analysis from this academic year 2021-22.

The course starts from 26-08-22 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

Principal

Dr.K.C.Ramesh

Principal,

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce,

CHITRADURGA

From:
Co-Ordinator
Certificate course on Water Analysis
Department of chemistry
SJM College Chandravalli
Chitradurga



TO: The principal SJM College Chandravalli Chitradurga

Sir,

Subject: permission for certificate course on Water analysis

With reference to the cited above, Our department has decided to start certificate course on "Water Analysis" for B.Sc degree students for the academic year 2021-22, So request you grant permission to start certificate course with self-financial assistance.

Thanking you sir

Place: Chitradurga

Date: 18-08-2022

Your's faithfully

B. Ar.

Co-Ordinator

Kcs. 22

ಹ ಕಛೇರಿ : 08194-222506

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SRI JAGADGURU MURUGHARAJENDRA COLLEGE OF ARTS, SCIENCE & COMMERCE

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka NAAC Reaccredited with 'A' Grade CGPA 3.05

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/202 -2022

ದಿನಾಂಕ: 18-8-2021-2

То

The Co-Ordinator
Certificate course on Water Analysis
Department of chemistry
SJM College Chandravalli
Chitradurga

Subject: Regarding for permission to grant certificate course on "Water Analysis"

With reference to the above, the permission has been granted to department to start certificate course on "Water Analysis" for B.Sc degree students for the academic year 2021-22 with Non-financial assistance.

Principal

Dr. K.C. Ramesh

Sri Jagadguru Murugharajendra Colleguof Arts, Science & Commerce,
CHITRADURGA.

h : //www.sjmcascchitradurga.edu.in ಎಸ್.ಜಿ.ಎಂ.ವಿದ್ಯಾಪೀಠ (ರಿ.), ಚಿತ್ರದುರ್ಗ email : sjmasccta@rediffmail.com 🖀 ಕಛೇರಿ : 08194-222506

ಶ್ರೀ ಜಗದ್ಗುರು ಮುರುಫರಾಜೇಂದ್ರ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿ

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SRI JAGADGURU MURUGHARAJENDRA COLLEGE OF ARTS, SCIENCE &

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka NAAC Reaccredited with 'A' Grade CGPA 3.05

ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/ 20 -20

ದಿನಾಂಕ: 23/8/22

To,

S.i 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 Water Analysis.

Our Department has planned to conduct a Certificate Course on "Water Analysis".

In this academic year 2021-22 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 sir,

Principal

Dr K C Ramesh Principal,

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce, CHITRADURGA.

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ಜ್ ಕಛೇರಿ : 08194-222506

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SRI JAGADGURU MURUGHARAJ<mark>ENDRA COLLEGE</mark> OF ARTS, SCIENCE & COMMERCE

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka

ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/20 -20

ದಿನಾಂಕ: 22/8/22

Office Order

Sri,Nagraja B, Assistant Professor of Chemistry has been appointed as a <u>Coordinator</u> for the Certificate course on Water Analysis for the academic year 2021-22.

Principal

Dr.K.C.Ramesh

- Principal,

Sri Jagadguru Murugharajendra Collego of Arts, Science & Commerce.

CHITRADURGA.

email: sjmasccta@rediffmail.com

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/ 20 -20

ದಿನಾಂಕ: 23 8 22

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 Water Analysis.

Our Department has planned to conduct a Certificate Course on "Water Analysis".

In this academic year 2021-22 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 sir,

Principal

Dr K C Ramesh

Principal,
Srl Jagadguru Murugharajendra College
of Arts, Science & Commerce,
CHITRADURGA.

🖀 ಕಛೇರಿ : 08194-222506

್ರಿ e ಜಗದ್ಗರು ಮುರು**ಫರಾ**ಟೇಂದ್ರ <mark>ಕಲ್ಕಾ ವಿಜ್ಞಾನ</mark> ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿರ್ಯಾಲಯ

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ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/20 -20

ದಿನಾಂಕ: 23/8/22

Circular

With the consent of the following, we have framed BOS Chairman and members for the Certificate course on Water Analysis to be conducted from the Department of Chemistry academic year 2021-22

Sl no	Name	Designation	Signature
01	Sri Nagraj S Assistant Professor, Govt First Grade College, Chitradurga	Chairman	ØN/W
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	Iller
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	A. Danal

PRINCIPAL

Dr.K.C.Ramesh

Principal,

Sri Jagadguru Managharajandra College of Arts, Science & Commerce,

CHITRADURGA

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ಕ್ರಮಾಂಕ: ಎಸ್.ಜಿ.ಎಂ.ಸಿ. /

/20 -20

To,

Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga

ದಿನಾಂಕ: 22/8/22

Respected Sir,

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

Our Department has planned to conduct a Certificate Course on "Water Analysis". In this academic year 2021-22 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 sir,

Principal

Dr K.C. Ramesh

Principal,

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce.

CHITRADURGA.

eman . ajmasocia@reamman.com

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Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka

ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/20 -20

ದಿನಾಂಕ: 23822

Notice

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

Sl no	Name	Designation	\cap
01	Sri Nagraj S Assistant Professor, Govt First Grade College,Chitradurga	Chairman (Mala
02	Sri Manjunathaswamy H.M Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Director	Im
03	Sri Nagraja B Assistant Professor, SJM College of Arts, Science & Commerce, Chandravalli, Chitradurga	Member	5.1.
04	Smt Manasa J Assistant Professor, HPPC Govt First Grade College, Challakere	Member	Navad

Principal

Dr.K.C. Ramesh

- Principal, -

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce, CHITRADURGA.

BOS meeting proceedings of Certificate course on Water Analysis

The BOS meeting of Certificate course on Water 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	*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

S. NAGARAJA

Name & Signature of the BOE Members

Manage :

(Manasg, J) Assistand Professor H.P.P.C GFGC, Challakere

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e ಜಗದ್ಗುರು ಮುರುಫರಾಜೆ<u>ಲಂದ್ರ ಕಲ್ಕಾ, ವಿಜ್ಞಾನ</u> ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ

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SRI JAGADGURU MURUGHARAJ<mark>ENDRA COLLEG</mark>E OF ARTS, SCIENCE & COMMERCE

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka NAAC Reaccredited with 'A' Grade CGPA 3.05

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/2021 -2022

ದಿನಾಂಕ: 24 822



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 Water Analysis

Our Department has planned to conduct a short term course on "Water Analysis" in this academic year 2021-22 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

Sri Jagadguru Murugharajendra College of Arts. Science & Commerce,

CHITRADURGA

From,

Nausheer, Lecturer in Chemistry, SJM Arts, Science & Commune, Collège Chitradurge. Dete! 24/3/2022 place! Chitecology



TO.

The CO-Ordinator,
Department of chemistry,
SIM Arts, Science & Commune,
Collège chitradurga.

Respected SIR,

Sub! Accepting as a Resource Person forcestificte Course On ground notes Analysy

With reference to the sited above I agreed to do
the service as a resonge person for certificts
Course on ground water Analysis from today
onwards.

Kanking you

Accepted B. N. Your faithful

Principal,

Jagadguru Murugharajendra College of Arts, Science & Commerce.

CHITRACURGA

(Magaryal) Co-ordinalir

DETAILED THEORY SYLLABUS





- 1. **Introduction:**-Need for protective water supply essential, water supply environmental and its effects on health activity.

 03 Hrs
- Quantity of Water: Population fore Casting Arithmetic increase Method. Geometrical increase Method, rate of demand, factors affecting rate of demand
 03 Hrs
- 3.Sources:- Surface sub surface sources, suitability of surface water and sub surface water sources with regard to quality and Quality Aquifers well in confined and unconfined aquifers. Yield of well under steady flow condition.07 Hrs
- 4. Treatment: -
- a) Theory of Sedimentation, settling tanks.
- b) Theory of Filtration types of filters slow rapid sand filters.

07 Hrs

c) Theory of disinfection, Methods of disinfection Chlorination, Chlorine demand use of Bleaching Powder, Chlorine

References:

- 1) Manual on Water supply and treatment (Third edition) CPHEEO ministry of Urban Development, NEW DELHI.
- 2) S.K. Garg, Water supply engineering Khanna Publishers ZB. North marked Nai eara Delhi
- 3) Environmental engineering 1-B C. Puniy & Ashok Jain
- 4) Water Technology by Mehatha

Name & Signature of the BOE Chairman

Name & Signature of the BOE Members

1

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WATER ANALYSIS

12 Hrs

- 1. Determination of chlorides
- 2. Determination of PH
- 3. Determination of Total Hardness of Ground Water (Calcium, Magnesium)
- 4. Determination of COD

References:

- 1. Manual on water wastewater analysis Neeri Publication
- 2. Standard Methods for Examination of Water and Waste Water (1995) American Publications Association. Water pollution control Federation Washington DC
- 3. Sawyer and McCarthy Chemistry Environmental Engineering

Name & Signature of the BOE Chairman

Name & Signature of the BOE Members

Ker

S NAGARATA

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.. .. VENOVALLI

CHITRADURGA DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE EXAMINATION 2021-

SUBJECT-WATER ANALYSIS

Hours -2hrs

Max.marks-60.

SECTION-A

I.Answer any SIX of the following questions	5 X 6 = 30	
1) With the help of neat diagram, explain infiltration gallery & infiltration v	vell?	5
2) Enlist any four types of pumps usually used in water supply system& the	e main factors	
which are to be considered while selecting a suitable pump		5
3.a) Define per capita demand		1
b)List any four major factor affecting the rate of demand of water & Expl	ain the conce	pt c
fluctuation in water demand		4
4.a)Define intake works in a water supply scheme		2
b) With the help of a neat figure explain any one type of intake structure	!	3
5) Distinguish between slow sand & rapid gravity filters		5
6.a) Distinguish between discrete particle settling flocculent settling.		2
b)Derive an expression for Settling velocity of a discrete particle in water	•	3
 Enlist & explain the different layout of distribution networks with their r demerits 	merits &	5
8) Discuss demineralisation process & electro dialysis in water treatment		5
SECTION-B		
II.Answer any THREE of the following questions	10 X 3 = 30	
9.a) Illustrate with a sketch , the different functional zones of a rectangula	r sedi mentatio	on
tank		7
b)Compare alum & iron salts as coagulants.		3
10.a) What are the requirements of a good distribution system.		5
b) Explain the equivalent pipe method with a neat sketch		5
11.a) Discuss the methods of arriving at the quantity of water to be supplied		
b)Define MPN.Explain the significance of determining the same.		7 3
12.a)Describe any two mixing device of coagulants.		6
b) Distinguish between Type I & Type II settling of suspended particles.		4
3.a) Explain logistic curve method of population forecasting.b) Explain any five chemical characteristics of water.	5	5



SJM Vidyapeetha(R,)

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

NAAC Reaccredited with 'A' Grade CGPA 3.05

DEPARTMENT OF CHEMISTRY ORGANISE

CERTIFICATE COURSE
ON
GROUND WATER ANALYSIS 2021-22

ATTENDANCE REGISTER

Principal,
Sri Jagadguru Murugharajendra College
of Arts. Science & Commerce,
CHITFADURGA.

PRACTIAL ATEMPORE

dence	\$ 8.J.M
	2/9 9/9 16/9 23/9
H Asha Lakshmi	1 2 3, 4
13 Jamuna.	1234
19. Rakshitha. Bai	1234
20. Karya·s	1234
al Ruchitha. T	1234
3 Shalini R	1234
3. Pooja Kurnari H.N	1234
34 Adarsh C.P	1234
25 Chandana. D	1 2 3 4
36 3 ged Saniya	1234
3 Sonika. E	1 2 3 4
	Principal,
	Sri Jagadguru Murusharajendra College of Arts, Science & Commerce; CHITRADURGN.
- (Ricyaraja B) Co-ardinatur.	

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SSI	Student Name	26/9	27/8	29/8	30/8	2/9	3/9	5/9
17.	Asha Lakshmi	1	2	3	4	A	n	5
18	Jamuna	1	2	3	ч	5	6	7
19.		1	2	3	4	5	6	7
20-	U	1	2	3	4	5	6	7
21.	Ruchitha.T	1	2	3	y	5	6	7
22	Shalini R		2	3	4	5	6	7
23.	pooja kumari H.N	1	2	3	Ч	5	6	7
24	Adarsh C. P	1	2	3	A	A	A	\$
25	Chandana. D	1	2	3	4	5	6	9
_	Syed Saniya.	1	2	3	4	5	A	A
27	Sonfka. E	1	2	3	14	5	6	3
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B.M. Cricgaraja 5) Co-ordinator

Principal,
Sri Jagadguru Murugharajendra College
of Arts, Science & Commerce,
CHITRADURGA

Country Countr

ATTENDANCE

ę		The	07	y	1		14	85	†) W	7
S	I No	Student Name	24/8	27/8	29/8	30/	2/9	3	5/9	16/9	No. of Concession, Name of Street, or other Persons, or other Pers
<u>.</u>	1.	Chandana. B.s	l	2	3	4	A	5	6	7	-
	2.	Ashitha	1	2	3	4	5	A	A	6	-
	3.	Sariya Tehreen	1	2	3	4	5	6	7	8	-
1	4.	Manoj. C	t	2	3	1	A	4	5	6	
	5.	Ravikizan M.D	1	2	3	4	5	6	7	8	
. 4	6.	Priya M.7	1	2	3	4	5	6	7	3	-
2	7.	Rakshitha.T	1	2	3	4	5	6	7	-8	-
	8.	Priya CV		2	3	ч	5	6	7	8	The state of the s
,	9.	Magratha C.R	1	2	3	4	A	5	6	7	
ſ	10-	Seushti S	t	2	3	4	5	1	A	6	
l	1.	Ulfath Banu. K	l	2	3	9	A	F)	5	6	,
J	2.	Meghana.v	1	2	3	4	5	6	7	8	The same of the same and
1	3.	Tejasnini. V	1	2	3	4.	5	6	7	3	WILLIAM STREET, STREET
1.	4.	Shwetha Kumari	l	2	3	ч	5	6	7	8	
1	5	Bhoomika C.N	1	2	3	.4	5	6	7	8	
1	6.	Tejaswini. S	1	2	3	4	5	6	7	8	
Alleranimportin									T		

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga Department of Chemistry Certificate Course on Water Analysis 2021-22

Theory Exam Attendance Sheet



Date:

Time:

SL no	Name of the Students	Reg No	Combination	Signature			
1	Chandana.B.S	CHMWA003	I st B.Sc (C Z)	chandara.B.s			
2	Ashitha	CHMWA007	I st B.Sc (M C)	Ahitha. R.			
3	Sariya Tehreen	CHMWA010	I st B.Sc (B Z)	Sarya Tehnee			
4	Manoj.C	CHMWA011	I st B.Sc (B Z)	-BB-			
5	Ravikiran.M.D	CHMWA023	I st B.Sc (C Z)	Routletran MD.			
6	Priya.M.T	CHMWA026	I st B.Sc (C- OE)	Pariya. Mi			
7	Rakshitha.T	CHMWA029	I st B.Sc (C- OE)	Rakshither.T			
8	Priya C V	CHMWA033	Ist B.Sc (C- OE),	Porya.cv			
9	Nagaratha C R	CHMWA034	I st B.Sc (C- OE)	Porya.cv			
10	Srusti.S	CHMWA035	I st B.Sc (C- OE)	(suchts			
11	Ulfath Banu.K	CHMWA036	I st B.Sc (M C)	Ulfath Bornk			
12	Meghana.V	CHMWA038	I st B.Sc (C M)	Mighanas			
13	Tejasvini.V	CHMWA040	I st B.Sc (C Z)	Mighanad Sigo. V			

14	Shweatha Kumari	CHMWA043	I st B.Sc (C Z)	Shwello kuman.
15	Bhoomika C N	CHMWA047	Ist B.Sc (GA) P. M.	
			,	Dhoomika (N
16	Tejasvini.S	CHMWA049	Ist B.Sc (C Z) PM	Tejanwini. S
				rejaponi. 2
17	Asha Lakshmi	CHMWA051	I st B.Sc (C P)	A sha Calishue
				server cue should
18	Jamuna	CHMWA052	Ist B.Sc (C Z)	Janua G.
19	Rakshitha Bai	CHMWA055	I st B.Sc (C M)	
17	Kaksiitiia bai	CITIVI W/1033	1 5.50 (0 141)	Rockshetha.s
20	Kavya S	CHMWA056	Ist B.Sc (C Z)	Lauge 3
21	Ruchita T	CHMWA064	I st B.Sc (C Z)	Rokskithe J
22	Shalini.R	. CHMWA068	Ist B.Sc (C Z)	Shalini. R
23	Pooja Kumari.H.N	CHMWA069	Ist B.Sc (C Z)	Toojakumoanw.
24	Adarsha C P	CHMWA070	Ist B.Sc (C- OE)	1 1 10
25		GIV 4070	ret	Adarph e P
25	Chandana.D	CHMWA072	Ist B.Sc (C- OE)	Chandana, D
26	Syed Saniya	CHMWA073	I st B.Sc (C Z)	Syeda Banzyo. 9
27.	Sonilea.F	CHMIIAO	9 9 BSC DM	

No of Students Present	d6
No of students Absent	01

Name & Signature of Invigilator

Model application torm.



SJM Vidyapeetha (R) Chitradurga

S.J.M College Of Arts, Science and Commerce, Chandravalli, Chitradurga 577501.

NAAC Reaccredited with "A" Grade, CGPA3.05 **Department of Chemistry**

Admission Appleation Form of Short- term Course on

e, On Chandandadada Color

Water Analysis

1	NAME OF THE STUDENT		
2	FATHER'S NAME		РНОТО
. 3	MOTHER'S NAME		PHOTO
4	DATE OF BIRTH		
5	GENDER M/F		
6	CONTACT NUMBER	. • •	
7	EMAIL ID		
8	PRESENT COURSE STUDYING	B.A B.Sc,	B. Com
9	POSTAL ADDRESS		

DATE: -

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce, CHITRADURGA

Signature





Students List for Certificate Course on Ground Water Analysis 2021-22

SL no	Name of the Students	Combination	Signature
1	Chandana.B.S	I st B.Sc (C Z)	Chandana.B.s
2	Ashitha	I st B.Sc (M C)	Ashetha. R.
3	Sariya Tehreen	I st B.Sc (B Z)	Saviya Tehneem Manoj!C Rani bivans. M.
4	Manoj.C	I st B.Sc (B Z)	Manojic
5	Ravikiran.M.D	I st B.Sc (C Z)	Raui leivans. M.
6	Priya.M.T	Ist B.Sc (C- OE)	Priya m.
7	Rakshitha.T	I st B.Sc (C- QE)	Rokshotha.T
8	Priya C V	Ist B.Sc (C- OE)	priya. C.V
9	Nagaratna C R	I st B.Sc (C- OE)	A DO
10	Srusti.S CRUSHTI.S	Ist B.Sc (OE)	Quillis
11	Ulfath Banu.K	I st B.Sc (M C)	Wath Baru.k
12	Meghana.V	I st B.Sc (C M)	Meghanav
13	Tejasvini.V	I st B.Sc (C Z)	Meghana.V

Principal,
Sri Jagadguru Murugharajendra College
of Arts, Science & Commerce,
CHITRADURGA

14	Shweatha Kumari	I st B.Sc (€- Z) P ^M	Shwetha. C.N
15	Bhoomika C N	Ist B.Sc (C A)	Bhoomika (.N
16	Tejasvini.S	I st B.Sc (€-Z) pM	Tejanwinis
17	Asha Lakshmi	I st B.Sc (C P)	Osla lakshmed
18	Jamuna	Ist B.Sc (PZ) PM	JAMWNA.G
19	Rakshitha Bai	I st B.Sc (C M)	Rakelitha.s
20	Kavya S	I st B.Sc (C Z)	Lauger &
21	Ruchita T	I st B.Sc (C Z)	Ruchitha.
22	Shalini.R	I st B.Sc (C Z)	Shalini . R
23	Pooja Kumari.H.N	Ist B.Sc (PR) PM.	Too whame to
24	Adarsha C P	I st B.Sc (G-OE) (C.7)	
25	Chandana.D	Ist B.Sc (€- OE)pM	Chandano D
26	Syed Saniya	Ist B.Sc (CZ)CM	Syeda Banya S

B. N. Cricyarapa B) Corordinator.

27

Soneta

Principal,
Sri Jagadguru Murugharajendra College
of Arts, Science & Commerce,

BBSc (PM) Surg : E

CHITRADURGA.

COURSE STRUCTURE AND DETAILED SYLLABUS OF CERTIFICATE COU WATER ANALYSIS

Course: Certificate Course in Ground water analysis

Regulations

One Month Course in Ground Water 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 5 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 Water analysis

Paper	Title/Theory/Practical	Total Marks	Hrs	Week	*
Paper-1	Water analysis	60	20	5	
Practical	Water analysis	40	12	3	



S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga Department of Chemistry Certificate Course on Water Analysis 2021-22



1. Register No.								
2. Candidate Name	• • • • • •				•••••	••••	• • • • • •	••••
3. Degree		•••••		• • • • • •	• • • • • •		•••••	••••
4. Exam (Year/Semes	ster).	• • • • • •			• • • • • •		•••••	
5. Subject		•••••	• • • • •	• • • • • •		•••••	•••••	••••
6. Exam Date	• • • • • •	• • • • • •	•••••	•••••	•••••	• • • • • •	• • • • • • •	••••
Candidate								
Signature:								
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Invigilator				e e e e e e e e e e e e e e e e e e e				
Signature:								
Name								

Model.

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga Department of Chemistry Certificate Course on Water Analysis 2021-22



Section A

Section B

oction 11			Section B				
Qn.	Ma	ırks	Total	Qn.		Marks	Total
	A	В	Marks		A	В	Marks
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2			-	10			
3				11			
4				12		*	
5				13			
6				14			
7				15			
8				16			
		Sub Total				Sub Total	

	Grand Total	
Grand Total in Words		
Name & Signature of the Examiner		
Date		

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga Department of Chemistry

Certificate Course on Ground Water Analysis 2021-22 Theory Work sheet

SLno	Reg No	Theory (Max:60)
1	CHMWA003	58
2 ,	CHMWA007	48
3	CHMWA010	55
4	CHMWA011	AB
5	CHMWA023	35
. 6	CHMWA026	40
7.	CHMWA029	40
8	CHMWA032	52
9	CHMWA033	55
10	CHMWA034	35
11	CHMWA035	35
12	CHMWA036	55
13	CHMWA038	50
14	CHMWA040	48

SLno	Reg No .	Theory(Max:60)
15	CHMWA043	55
. 16	CHMWA047	35
17 .	CHMWA049	48
18	CHMWA051	35
19	CHMWA052	45
20	CHMWA055	50
21	CHMWA056	47
22	CHMWA064	50
23	CHMWA068	40
24	CHMWA069	47
25	CHMWA070	59
26	CHMWA072	46
27	CHMWA073	45

Examiner

Name

: NAUSHEEN

College/Designation

Lecturer in SJM ARTS SCIENCE & COMMÉRCE COLLEGE

Signature

Date & Time

25/10/2022

CHITRADURGA



S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga **Department of Chemistry**

Certificate Course on Water Analysis 2021-22

Practical Exam Attendance Sheet

Date: 18/10/2022

Batch-1

Time: 2.30 to 4.30 pm

SLno	Name of the Students	Reg No	Combination	Signature
1	Chandana.B.S	CHMWA003	I st B.Sc (C Z)	Chandana.B.s
2	Ashitha	CHMWA007	Ist B.Sc (M C)	dihltho.R.
3	Sariya Tehreen	CHMWA010	I st B.Sc (B Z)	Sariya Tehoreen
4	Manoj.C	CHMWA011	I st B.Sc (B Z)	Manore
5	Ravikiran.M.D	CHMWA023	I st B.Sc (C Z)	Pacifeiran. M.D.
6	Priya.M.T	CHMWA026	I st B.Sc (C- OE)	Pariya M.T
7	Rakshitha.T	CHMWA029	I st B.Sc (C- OE)	Pokelaible. T.
8	Priya C V	CHMWA033	I st B.Sc (C- OE)	Poliya. C.V
9	Nagaratna C R	CHMWA034	I st B.Sc (C- OE)	- AB -
10	Srustis Srushtis.	CHMWA035	I st B.Sc (C- OE)	Quistiti.s
11	Ulfath Banu.K	CHMWA036	I st B.Sc (M C)	ulfath Banu. K
12	Meghana.V	CHMWA038	I st B.Sc (C M)	Meghas
13	Tejasvini.V	CHMWA040	I st B.Sc (C Z)	Meghas Jeja-V

Signature of the Examiner 1

Signature of the Examiner 2

Name of the Examiner 1 in Block Letters

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga **Department of Chemistry** Certificate Course on Water Analysis 2021-22

Practical Exam Attendance Sheet

Date: 18/10/2022 Batch-2 Time: 2.30 pm to 4,30 pm

01	Shweatha Kumari	CHMWA043	I st B.Sc (C Z)	Shwetha Kumaui.
01	Shweatha Ruman	CITIVI W A 0 4 5	1 b.3c (c 2)	Shwetha kurnau.
02	Bhoomika C N	CHMWA047	I st B.Sc (C Z)	7 -
03	Tejasvini.S / Tejasw	CHMWA049	I st B.Sc (C Z)	Tejaswini.s
04	Asha Lakshmi	CHMWA051	I st B.Sc (P C)	Ashalakening
05	Jamuna	CHMWA052	I st B.Sc (C Z)	Jamuna. G
06	Rakshitha Bai	CHMWA055	Ist B.Sc (C M)	Rakshelfa.S
07	Kavya S	CHMWA056	I st B.Sc (C Z)	Kaupa 3
08	Ruchita T	CHMWA064	I st B.Sc (C Z)	The state of the s
09	Shalini.R	CHMWA068	I st B.Sc (C Z)	Ruchistia. Shalini, R
10	PoojaKumari.H.N	CHMWA069	Ist B.Sc (C Z)	Tooja kumevat
11	Adarsha C P	CHMWA070	I st B.Sc (C- OE)	Adords C.D
12	Chandana.D	CHMWA072	I st B.Sc (C- OE)	Adords C.P Chandana.D
13	Syed Saniya	CHMWA073	Ist B.Sc (C Z)	
14	Sonika, E	CHMWA063	IBSC(PM)	BURG . E

of the Examiner 1

5

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

Signature of the Examiner 2

Name of the Examiner 2 in Block Letters

Model.

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga

Practical Examination for Certificate Course on Water Analysis

Organized by Department of chemistry - 2021-22

Water Analysis	Palli, No.
2021-22	
oll no	

Examination	Da	ate	Mo	nth		Year
Maximum Marks for i) P	ractical			• • • • • • •		
	ii) Class R	lecords				
,	iii) Viva					
	iv) Any ot	her				
		Marks A	Awarded			
	Question /	Part 1:				
	Question /	Part 2:	· · · · · · · · · · · · · · · · · · ·			
	Class Reco	ords:				
	Viva:					
	Any other	r				
			i i		Total	
Marks Awarded in Words			 			
		Date	÷ [*
Signature of the Examiner 1			Name of	the Exar	miner 1 in	Block Letters
,		Date		er.		
Signature of the Examiner 2			Name of	the Exar	niner 2 in	Block Letters

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga **Department of Chemistry** Certificate Course on Water Analysis 2021-22

Practical/Record Work sheet



Date:

Batch-1

Time: 12 - 1 pm

SLno	Reg No	Practical (Max:40)
1	CHMWA003	38
2	CHMWA007	36
3	CHMWA010	39
4	CHMWA011	35
5	CHMWA023	38
6	CHMWA026	35
7	CHMWA029	36
8	CHMWA033	35
9	CHMWA034	37
10	CHMWA035	37
11	CHMWA036	37
12	CHMWA038	39
13	CHMWA040	39

Examiner 01

Name

: RAJU. K.M.

College/Designation

: Lectures | GSC. CTA.

Signature

Date & Time

: 18/10/2022

12-2 pm

Examiner 02

NAUSHEEN

12-2 pm

ಶ್ರೀ ಜಗದ್ದುರು ಮುರುಫರಾಜೀಂದ್ರ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾ ಕ್ರೀಟ್

ಚಂದ್ರವಳ್ಳಿ, ಚಿತ್ರ<mark>ದುರ್ಗ - 577 501. ಪೋಸ್ಟ್</mark> ಬಾಕ್ಸ್ ನಂ. 88 ನ್ಯಾಕ್ ಪುನರ್ಜ್ಜಾವ್ಯತೆ: 'ಎ' ಗ್ರೇಡ್ ಸಿ.ಜಿ.ಪಿ.ಎ. 3.05

SRI JAGADGURU MURUGHARAJENDRA COLLEGE OF ARTS, SCIENCE & COMME

Chandravalli, CHITRADURGA - 577 501. Post Box No. 88, Karnataka NAAC Reaccredited with 'A' Grade CGPA 3.05

ಕ್ರಮಾಂಕ : ಎಸ್.ಜೆ.ಎಂ.ಸಿ. /

/ 20 -20

ದಿನಾಂಕ: 23/8/22

Pail

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 Water Analysis.

Our Department has planned to conduct a Certificate Course on "Water Analysis".

In this academic year 2021-22 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 Madam,

A. Manger

Principal

Dr K C Ramesh Principal,

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce, CHITRADURGA.

Career Objective:

Seekingacareerof*chemistrylecturer* positiontosharemyknowledgeandexperiencewith studentsand gainmoreexperienceinto the education and teaching field.

Summary of Skills:

Aninnovative and knowledgeable professional having 2+years of experience as a lecturer.

- Strong theoretical and practical knowledge of chemistry
- In-depth knowledge of chemistry and ability to teach students
- Ability to develop and execute lessons plans
- Skilledina variety style ofteachingmethods and techniques



WorkExperience:

Chemistry guestlecturer

Government Science college, Chitradurga August 2016 to date

Preparingandgivinglecturestostudentsandconductingdiscussiononthetopic taught

• Scheduling practicals and inspecting equipments and components in labs •

Chemistry lecturer

SJM Pu college chandravalli chitradurga june 2015 to Date

Chemistry lecturer

SJM Pu college chandravalli chitradurga june 2015 to Date

• Assisted the Department by handling Theory and practical classes for PUC students

Personal Information

01	Name	NAUSHEEN
02	Address	D/O Inayath Hussain, Asif Manzil 3 rd cross, Neharu Nagara, HLK roadChitradurga District, Karnataka State, India.
03	Contact number	+918792229694
04	e-mail .	nausheen93@gmail.com
05	DateofBirth	14-06-1993
06	Gender	Female
07	Marital status	Unmarried
08	Nationality '	Indian
09	Subject	Chemistry

EducationalQualification

M.Sc in General Chemistry Govt Science College Davanagere University Chitradurga

Year of Passing: June 2015

Eligible in State lecturership eligible test (SLET) Conducted on Dec 2015

Seminars Attended

- 1. OnedaySeminaron"Synthetic Chemistry" held atTumkur University, on 19th March 2015.
- **2.** Two days seminar on **Nano Science** held at Govt Science college Chitradurga on 20th 21st April 2017

Solelydeclarethattheinformationgivenaboveistruetomyknowledgeand belief.

Date: Place:

YoursSincerely

(Nausheen)

S.J.M. College of Arts, Science and Commerce, Chandravalli, Chitradurga **Department of Chemistry**

Certificate Course on Water Analysis 2021-22 Practical/Record Work sheet



Date:

Batch-2

Time: 2:30 - 4:00 pm

SLno	Reg No	Practical (Max:40)
01	CHMWA043	36
02	CHMWA047	37
03	CHMWA049	37
04	CHMWA051	3.6
05	CHMWA052	39
06	CHMWA055	39
07	CHMWA056	3,6
08	CHMWA064	35
09	CHMWA068	38
10	CHMWA069	36
11	CHMWA070	38
12	CHMWA072	36
13	CHMWA073	39

Examiner 01

: RASU. K.M.

College/Designation

Signature

Date & Time

Name

: Lecturer (GSC. CTD.

: Inf : 18/10/2022

2:30 - 4:30 pm

Examiner 02

NAUSHGEN

2.30-4-30PM

Report

S.J.M. College of Arts, Science and Commerce Chandravalli, Chitradurga

Department of Chemistry

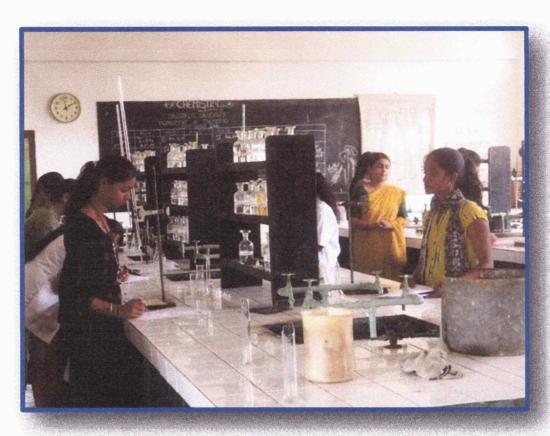
REPORT ON GROUND WATER ANALYSIS

Certificate course on ground water analysis commence from 26-08-2022 to 25-09-2022. After the completion of the course practical exam was conducted on 18-10-2022 & theory exam conducted on 23-10-2022.

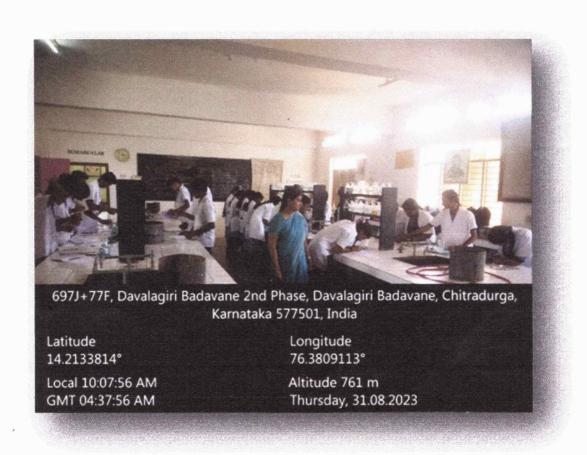
Certificate course on ground water analysis is very important to the students of undergraduate because it exposed them to the real work environment for surveying. During this course student will understand the essential of water sources and quality of water at different geographical locations and factors affecting the rate of demand. Discuss about hygienic importance of water and treatment of the ground water analysis.

This certificate course on water analysis improves the student about the knowledge of ground water analysis & know about physical, chemical and biological characteristic of ground water.

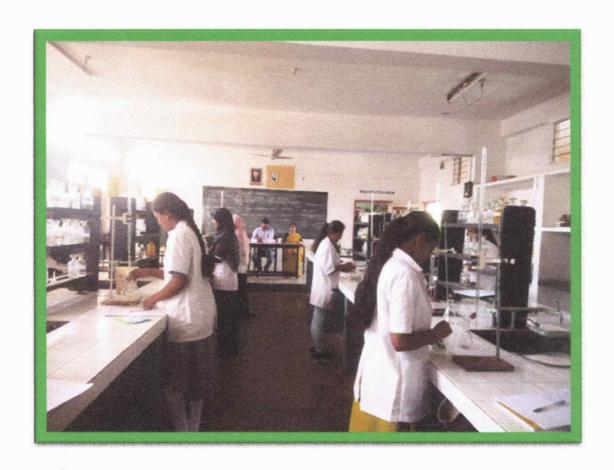
B. No. (Nayaraja o) (Nayaraja o) (Co-ocoli nalor.











Practical Examination – Ground Water Analysis



Course outcome

- * After Completion of the Skills necessary for water 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.









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

Chandravalli, Chitradurga - 577501
www.sjmcaschitradurga.com e-mail- sjmasecta@rediffmail.com
NAAC Reaccredited with 'A' Grade CGPA - 3.05
Department of Chemistry

CERTIFICATE COURSE ON GROUND WATER ANALYSIS - 2021-22

This is Certify that Kumari/Kumara. Meghana. V Ist B. Se [CM.] has participated in "Certificate Course on Ground Water analysis" 2021-22 at S.J.M. College of Arts, Science & Commerce, Chandravalli, Chitradurga.

Director

B. A. Co-ordinator

Principal
S.J.M. College, Chitradurga

Sri Jagadguru Murugharajendra College of Arts, Science & Commerce, CHITRADURGA.