GOVTERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM DEPARTMENT OF CHEMICAL SCIENCES BROCHURE(2022-23) NAME OF THE CERTIFICATE COURSE: CHEMICAL LAB

TECHNIQUES

OBJECTIVES:

- 1. Enable the students to develop skills in common laboratory techniques.
- To impart knowledge of the basics of organization and management of science laboratories.
- To create interest among students to work in various pharmaceutical industries.

SYLLABUS:

- 1. The Preparative Techniques.
- 2. Filtration Techniques.
- 3. Distillation and Boiling Point Determination.
- 4. Recrystallization and Melting point Determination.
- 5. Chromatography Techniques.
- 6. Conductometeric Titrations.
- 7. Potentiometric Titrations.
- 8. pH meter 9. Spectrophotometer
- 10. Colorimeter.

REFERENCE BOOKS:

- 1. Instrumentation methods of chemical analysis.- B.K.SHARMA
- 2. Principles of Laboratory techniques and Methods- MEENA SRIVASTAVA
- 3. Vogel's Quantitative Chemical Analysis

INSTRUCTIONS TO THE CANDIDATES:

- 1. Duration of the course -30 days
- 2. course fee- nill
- 3. 90% of attendance is compulsory for the completion of the course.
- 4. certificate will be issued to the students based on their performance.

COURSE COORDINATOR: Sri. D. Adinarayana.

Lecturer in chemistry.

RESOURCE PERSONS.

1. Sri. D. Adinarayana

2. Dr. D. santhi Priya

3. Dr. Y. Vamsi Kumar

4. Sri R. Chandra sekhar

5. Sri R. Venkateswara Rao

6. Sri VSVS Satyanaryana

7. Smt. R.S. Godldina

8. Sri. M. Srinivasa Rao

VIVE RS Gold.

Meeting-16 DT | 5 -12-20 8 2 The Departmental staff meeting is held on FIR December, 2022 at 4:30 pm in the dept. staff noom, Sri D. Adinevarjana, Inchange of Dept. of chemical Sciences 13 in the chair to discuss the following Agenda. Agenda i, coverage of Syllabus of Sem-I & TH (both Theday & practical) civ To conduct sem-10 practical examinations as per The instructions of the DEAN, DY. BRAU, SKLH. (iii) To give Albignment work (iv) To organize Industrial Visit to NACL, childreplem. (V) To sum certificate cower from Jan - 2023 It is unanimously resolved to run certificate course on Chemical Ich Technique Hermburs present: from Jan-2023. is sni D. Adinevayene in Dr. S. Rama Krishna (iii) Sri V. Ravi Kumar (14) Dr y Vamsikumar (VI Dr. D. Santhipriya (VI Sri R. Ventatassiana Rao CVIII STI VS VS Satycuarayous CVIII Sri k-chandrasethar (ix) smt. R.S. Goldina R. S. Guld (x) Sri H. Srinivada Ran Govt. Degree College (Men) SRIKAKULAM -CS Scienced with Conditionship

04-01-2023

From

Sri D. Adinarayana, In-charge, Department of Chemical Sciences Govt. Degree College For Men, Srikakulam.

To

The Principal, Govt. Degree College For Men, Srikakulam. Respected Madam,

> Sub:- Dept. of Chemical Sciences - Seeking permission to organise a certificate course for the academic year 2022-23-Reg.

As per the resolutions taken in the departmental staff meeting, dated 05-12-2022, we are willing to organise a certificate course on "Chemical Lab Techniques" for the academic year 2022-23 with the duration of 30 days. Honce I remainded to the second sec permission to organise the certificate course mentioned above.

Thanking you,

Yours faithfully,

(D. ADINARYANA)

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GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM **DEPARTMENT OF CHEMICAL SCIENCES**

CERTIFICATE COURSE ON CHEMICAL LAB TECHNIQUES

(2022-23)

CIRCULAR

The Practical Classes of Certificate Course on "CHEMICAL LAB TECHNIQUES" will be commenced from 20th January 2023. The students who have interest to join in the Certificate Course shall give their names to Course Coordinator. Sri D. Adinarayana on or before 18 January 2023

90% of attendance is compulsory for the completion of the course Grade will be awarded to the students based o their performance. The duration of the course is one month. For this course

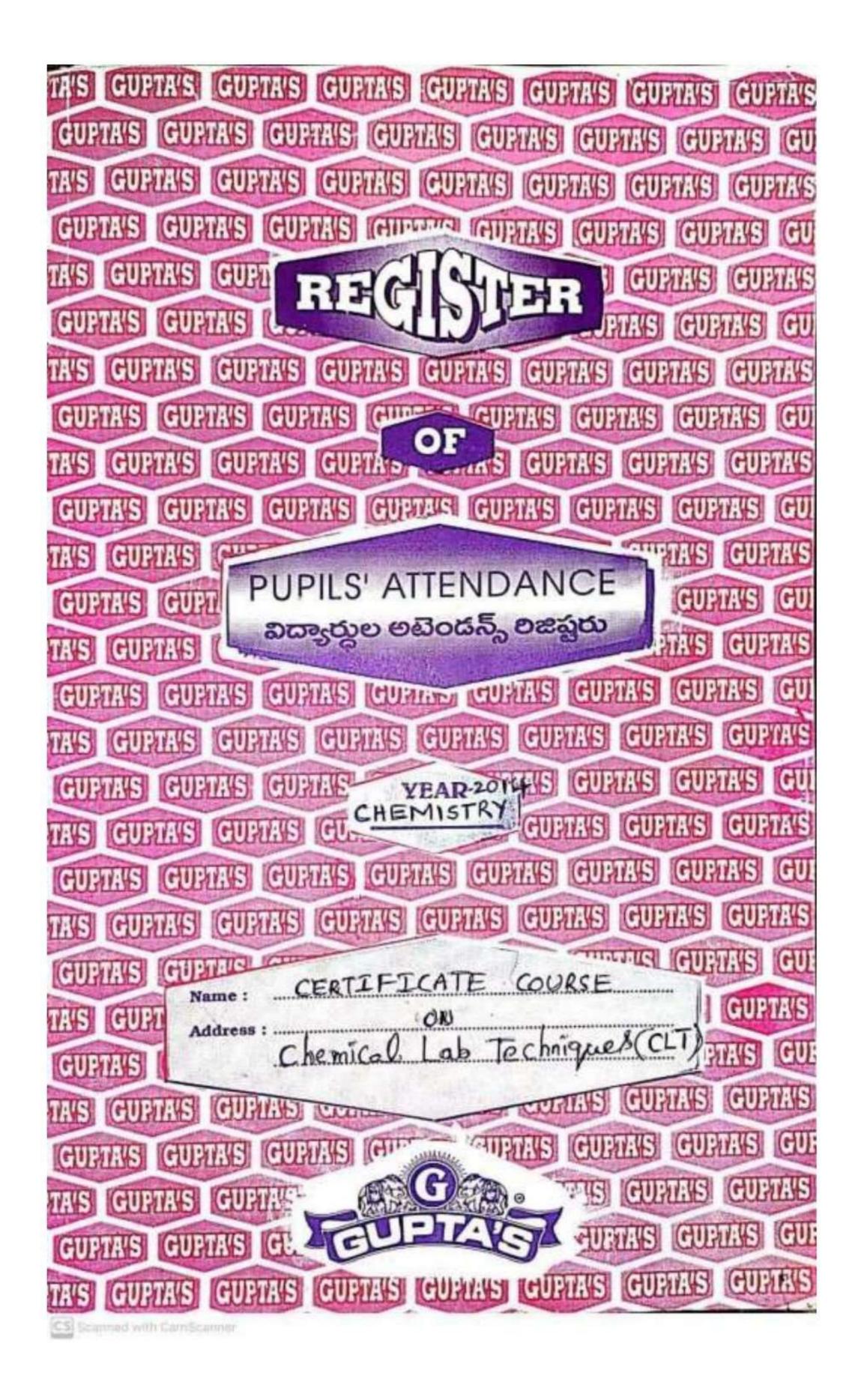
> Head of the Department Lecturer in-cital ge Dept. of Chemistry Govt Degree & P.G. College (Men) SRIKAKULAM

(Department of Chemical Sciences.)

1. V.S.V.S Satyanaraye VSVSVE 2. R. Venkaternara Pero

GOVT. DEGREE COLLEGE FOR MEN, SRIKAKULAM DEPARTMENT OF CHEMICAL SCIENCES CERTFICATE COURSE ON "CHEMICAL LAB TECHNIQUES" - 2022-23 Registration / Enrolment list

No	Name of the Student	Group	Signature
	B. DILLESH	III B.Sc. (MCIc)	B. Dillesh
	B. ABHISHEK	III B.Sc. (MCIc)	B-Athisek
	D. TEJA REDDY	III B.Sc. (MCIc)	NOTETA REDDY
	D.Y.R.N. SAIKIRAN	III B.Sc. (MCIc)	I Rilianh
	E. DILLESWARI PRADANOO	III B.Sc. (MCIc)	E. Dilleswari Poradonos K.madhavi
;	K. MADHAVI	III B.Sc. (MCIc)	K.madhavi
	L. GUNAVARDHANA RAO	III B.Sc. (MCIc)	L. Guralwelhara dal
8	G. RAJESH	III B.Sc. (MCIc)	G. Rajesh
9	M. TAGORE SAI	III B.Sc. (MCIc)	M. Tagge Sai
10	M. SAI KIRAN	III B.Sc. (MCIc)	M. Di Koran
11	M. MANOJ	III B.Sc. (MCIc)	M. Manoj
12	M. RAJU	III B.Sc. (MCIc)	M. Reju
13	P. AJAY	III B.Sc. (MCIc)	P. ATOY
14	P. MADHURI	III B.Sc. (MCIc)	P. Alay
15	R. HEMASEKHAR	III B.Sc. (MCIc)	R. Hemasekhar
16	T. SIMHACHALAM	III B.Sc. (MCIc)	T. Simhachalam
17	CH. LEELA MOHAN	III B.Sc. (MCAc)	CH·leela Mohan.
18	D. JAYRAM	III B.Sc. (MCAc)	D. Jayran
19	E. DEEPTHI	III B.Sc. (MCAc)	E. DEEPThi
20	M. YOGESWARA RAO	III B.Sc. (MCAc)	M. Yogening pool
21	M. RAMA RAO	III B.Sc. (MCAc)	M. Rama Rao
22	P. LAKSHMNA RAO	III B.Sc. (MCAc)	
23		III B.Sc. (MCAc)	P. Ragher
24		III B.Sc. (MCAc)	V. Mans
25	DDASAD.	III B.Sc. (MCAc)	V. Siva Pracad
26		III B.Sc. (MCAc)	V. Chandini



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GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM DEPARTMENT OF CHEMICAL SCIENCES

CERTIFICATE COURSE ON CHEMICAL LAB TECHNIQUES (2022-23)

QUESTION PAPER

MAX MARKS: 50 MARKS

- Determine the amount of HCL present in given 100 ml solution by using conductometric titration. (20 Marks)
- Determine the Λ max of a given KMnO4 solution. (20 marks)
- 3. Via-voce (10 marks)

Govt. Degree College (Men), Srikakulam Department of Chemical Sciences Certificate Course on "CHEMICAL LAB TECHNIQUES" – 2022-23 RESULT-GRADING

S.NO	NAME OF THE STUDENT	GROUP	HALLTICKET NO.	GRADE
1	CH. LEELA MOHAN	MCAC	2022001562007	В
2	D. JAYA RAM	MCAC	2022001562010	Α
3	E. DEEPTHI	MCAC	2022001562011	Α
4	M. YOGESWARA RAO	MCAC	2022001562022	В
5	M. RAMA RAO	MCAC	2022001562023	Α
6	P. LAKSHMNA RAO	MCAC	2022001562024	Α
7	P. RAGHU	MCAC	2022001562025	В
8	V. MANI	MCAC	2022001562027	Α
9	V. SIVA PRASAD	MCAC	2022001562029	Α
10	V. CHANDINI	MCAC	2022001562030	Α
11	B. DILLESH	MCIC	2022001566005	Α
12	B. ABHISHEEK	MCIC	2022001566007	Α
13	D. TEJA REDDY	MCIC	2022001566016	Α
14	D.Y.R.N. SAI KIRAN	MCIC	2022001566017	Α
15	E. DILLESWARI PRADNOO	MCIC	2022001566018	Α
16	K. MADHAVI	MCIC	2022001566026	Α
17	L. GUNAVARDHAN RAO	MCIC	2022001566031	Α

18	G. RAJESH	MCIC	2022001566020	В
19	M. TAGORE SAI	MCIC	2022001566034	Α
20	M. SAI KIRAN	MCIC	2022001566035	Α
21	M. MANOJ	MCIC	2022001566036	В
22	M. RAJU	MCIC	2022001566037	В
23	P. AJAY	MCIC	2022001566039	В
24	P. MADHURI	MCIC	2022001566040	В
25	R. HEMASEKHAR	MCIC	2022001566043	В
26	T. SIMHACHALAM	MCIC	2022001566047	В

MARKS(50)	GRADE
≥45	Α
35-44	В
25-34	С
<25	F

In-charge









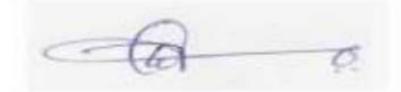


Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>CH. LEFLA MOHAN</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/ herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "B" grade



* HARIJHA

BN=

COURSE COORDINATOR

IQAC COORDINATOR

DEPARTMENT OF CHEMICAL SCIENCES

Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>D. JAYA RAM</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His / her performance is credited with "A" grade

- (a) 0

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IQAC COORDINATOR

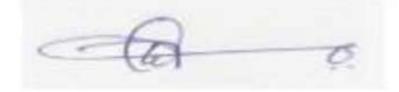


Certificate Course

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>E. DTEPTHI</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His / her performance is credited with "A" grade



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COURSE COORDINATOR

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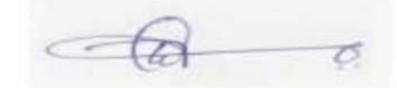


Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. M. YOGESWARA RAO, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "B" grade



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COURSE COORDINATOR

IQAC COORDINATOR



Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. M. RAMA RAO, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 h January 2023 to 25th February 2023. His/her performance is credited with "A" grade

- (a) 0

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COURSE COORDINATOR

IQAC COORDINATOR



Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. P. LAKSHMANA RAO, III-MCIc/MCAc of GDC(M),

Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized

by the Department Of Chemical Sciences and completed the course programme from 20 "January

2023 to 25th February 2023. His/her performance is credited with "A" grade

- (a) 0

COURSE COORDINATOR

IQAC COORDINATOR

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Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>P. RAGHU</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/
herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of
Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February
2023. His / her performance is credited with "B' grade

- (a) 0

IQAC COORDINATOR

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Certificate Course

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>V. MANI</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/
herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of
Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February
2023. His/her performance is credited with "A" grade

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T-MARIJIT

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COURSE COORDINATOR

IQAC COORDINATOR



Certificate Course

On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>V. CHANDINI</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "A" grade

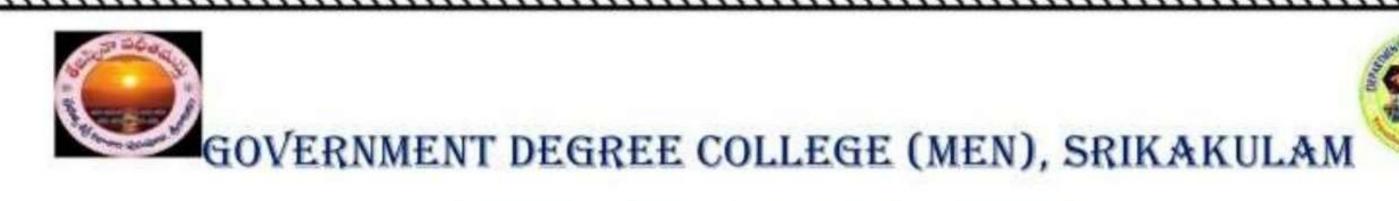
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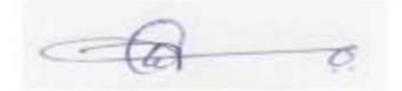
DEPARTMENT OF CHEMICAL SCIENCES

Certificate Course

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>B. DILLESH</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 h January 2023 to 25th February 2023. His / her performance is credited with "A" grade



HARIJHA



COURSE COORDINATOR

IQAC COORDINATOR



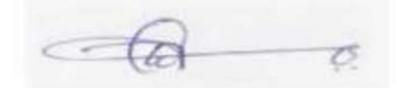
DEPARTMENT OF CHEMICAL SCIENCES

Certificate Course

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CHEMICAL LAB TECHNIQUES

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#-HARIJ HA-

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IQAC COORDINATOR

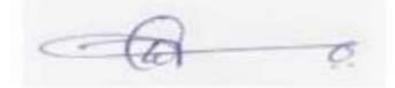


Certificate Course

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HARIJHA

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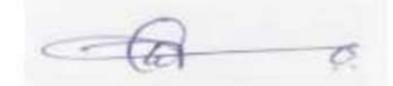
DEPARTMENT OF CHEMICAL SCIENCES

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On

CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>D.Y.R.N.SAI</u> <u>KIRAN</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His / her performance is credited with "A" grade



HARIJHA



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Certificate Course

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>E. DILLESWARI PRADANOO</u> "III-MCIc/MCAc of GDC(M), Srikakulam himself/ herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His / her performance is credited with "A" grade

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>K. MADHAVI</u>, JII-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 ¹⁶ January 2023 to 25th February 2023. His/her performance is credited with "A" grade

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This is to certify that Mr/Kum. <u>L. GUNAVARDHANA RAO</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 ¹⁶ January 2023 to 25th February 2023. His/her performance is credited with "A" grade



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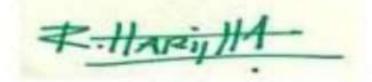


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This is to certify that Mr/Kum. G. RAJESH, III-MCIc/MCAc of GDC(M), Srikakulam himself/ herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His / her performance is credited with

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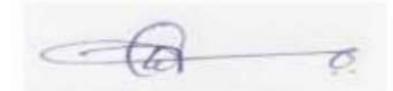


Certificate Course

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This is to certify that Mr/Kum. <u>M. TAGORE SAI</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 ¹¹ January 2023 to 25th February 2023. His/her performance is credited with "A" grade



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This is to certify that Mr/Kum. M. SAI KIRAN, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "A" grade

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This is to certify that Mr/Kum. M. MANOI, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20" January 2023 to 25th February 2023. His / her performance is credited with "B" grade

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This is to certify that Mr/Kum. M. RAJU, III-MCIc/MCAc of GDC(M), Srikakulam himself/
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Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February
2023. His/her performance is credited with "B" grade

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This is to certify that Mr/Kum. <u>P. AIAY</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/
herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of
Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February
2023. His/her performance is credited with "B" grade

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Certificate Course

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>P. MADHURI</u>, "III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 th January 2023 to 25th February 2023. His/her performance is credited with "B" grade

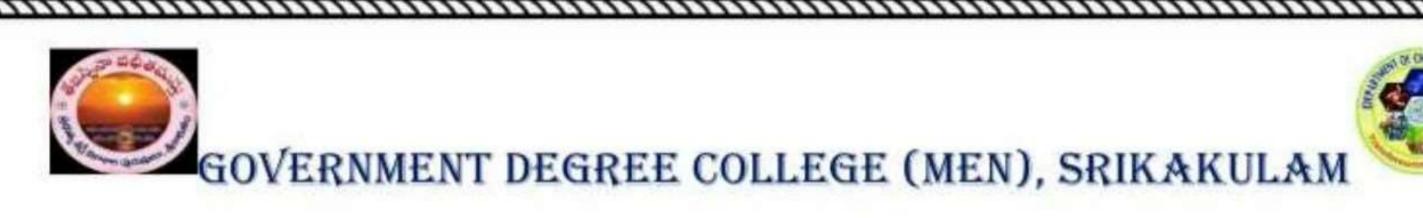


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This is to certify that Mr/Kum. R. HEMA SEXHAR, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "B" grade

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CHEMICAL LAB TECHNIQUES

This is to certify that Mr/Kum. <u>T.SIMHACHALAM</u>, III-MCIc/MCAc of GDC(M), Srikakulam himself/herself for the Certificate Course on' Chemical Lab Techniques', organized by the Department Of Chemical Sciences and completed the course programme from 20 "January 2023 to 25th February 2023. His/her performance is credited with "B" grade

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DEPARTMENT OF CHEMICAL SCIENCES FEEDBACK FORM (2022-23)

CERTIFICATE COURSE ON

(chemical Lab Techniques)

Name of the Student

: D. Y. R. N. Sai Killown : III grod m. C. IC

Class

Did the Course fulfil its objectives

: 405

Were the concepts explained in

The course

: Xes

How useful the course for you

PH metter under spectruphoto

Overall Rating of the course

Suggestion if any

more parameters to be analysed.

8. Signature of the Student

DEPARTMENT OF CHEMICAL SCIENCES

FEEDBACK FORM (2022 - 23)

CERTIFICATE COURSE ON

(Chemical Lab Techniques)

: M. yogeswarehoo : Ill MCAC Name of the Student

Class

Did the Course fulfil its objectives

4. Were the concepts explained in

The course

How useful the course for you

6. Overall Rating of the course

I under totad all at Melting & bester port section : Very good : Better to learn more parameter to be maliped 7. Suggestion if any

8. Signature of the Student

: M. yopmungez

DEPARTMENT OF CHEMICAL SCIENCES FEEDBACK FORM (2022-23)

CERTIFICATE COURSE ON

(chemical Lab Techniques)

1	Name	of the	Student	
1.	Maille	OI THE	Student	

Class

Did the Course fulfil its objectives

Were the concepts explained in The course

5. How useful the course for you

Overall Rating of the course

Suggestion if any

Conductometric and pakenito-metric titration.

better to leaen more parameter to

Signature of the Student

: B- Dellesh

DEPARTMENT OF CHEMICAL SCIENCES

FEEDBACK FORM (2022-23)

CERTIFICATE COURSE ON

(Chemical Lab Techniques)

P. AJay Name of the Student

: 329 . BBG (WCIC) Class

Did the Course fulfil its objectives : 763

Were the concepts explained in

: 163 The course

I mugan stood apout How useful the course for you

26873 and nochysta

Overall Rating of the course

Suggestion if any

: potten to

wone transfers to re

HOSHIONA

Signature of the Student

: P. A. Jay.