



GOVT. DEGREE COLLEGE FOR MEN, SRIKAKULAM
DEPARTMENT OF CHEMICAL SCIENCES



CERTIFICATE COURSE
ON
"PHARMACEUTICAL ANALYTICAL CHEMISTRY"
(2021-22)

Meeting NO. 07

13

01-04-2022

The departmental staff meeting is held on 01-04-2022 at 4PM in the Dept. staff room, Sri D. Adinarayana, Incharge of the Dept. is in the chair to discuss the following agenda and to resolve academic issues.

- Agenda:
- (i) Coverage of syllabus both (Theory & practical)
 - (ii) To run a certificate course for cluster batch, 2022 students.
 - (iii) To continue the certificate course for the Academic year 2021-22.
 - (iv) To conduct Remedial classes for slow learners
 - (v) To distribute work-load among staff (Teaching)

Resolutions: It is unanimously resolved

- (i) To inaugurate a certificate course on pharmaceutical analytical chemistry for 2022 cluster batch and Sri D. Adinarayana is nominated as Course Co-ordinator for this course.
- (ii) To conduct Remedial classes for Sem-I & III slow learners.
- (iii) Lectures wise Time-Table and work load for Sem-I, III & VI distributed among faculty as follows.

(P.T.O.)

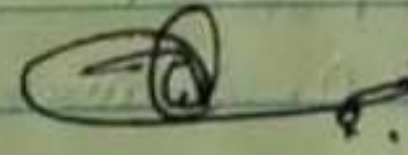
<u>S.NO</u>	<u>Name of the Lecturer</u>	<u>Theory</u> (h)	<u>Practicals</u> (h)	<u>Total hours</u> <u>per week</u>
1.	Sri D. Adinarayana	TRG-04 IIFGH-04	VIIIC ₁ -03 IIF-03 IG-03 VIIIC ₃ -03	8(T) + 12(P) <u>20h</u>
2.	Dr. S. Ramakrishna	IDJ-04 VIIIC ₂ -03	IA-03 ID-03 VIIIC ₁ -03 VIIIC ₂ -03	7(T) + 12(P) <u>19h</u>
3.	Sri V. Ravikumar	IIBD-04 IICEI/SD/EA-02	IA-03 IID-03 IIA-03 IIH-03	6(T) + 12(P) <u>18h</u>
4.	Sri Y. Vamsikumar	VIIIB-AB-03 IIBA/LS/Env. Edu-02	IF-03 IB-03 VIIIB-B-03 IIB-03 VIIIB-A-03	5(T) + 15(P) <u>20h</u>
5.	Dr. D. Santipriya	VIIIC ₃ -03 IA-02 IIB-Gmw/LS/EE-02	VIIIB-D-03 IIA-02/03 IF-03 VIIIC ₃ -03	7(T) + 11(P) <u>18h</u>
6.	Sri R. Chandrasekhar	VIIIB-DFGH-03 IIDJ/SD/EA-02	VIIIB-G-03 IIT-03 VIIIB-F-03 IG-03	5(T) + 12(P) <u>17h</u>

7. Sri M. Srinivasa Rao II AJ-04 IJ-03
 IIA/SD/EA-02 IID-03 (T) + 12(P)
 IIG-03 18h
 IIF-03

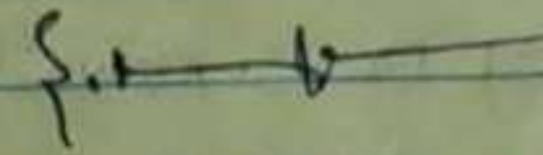
8. Sri S. AppalaNaidu IFH-04 IH-03 8(T) + 12(P)
 VIIC₁-03 VII B-H-03 20h
 IA-01 VIIC₂-03
 IB-03

Members present:

1. Sri D. Alinarayana



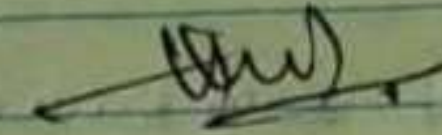
2. Dr. S. Ramakrishna



3. Sri V. Ravikumar



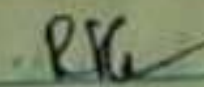
4. Sri Y. Vamsi Kumar



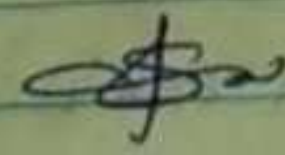
5. Dr. D. Santipriya



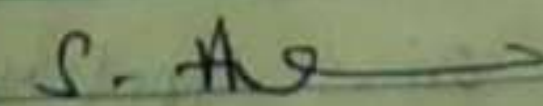
6. Sri R. Chandrasekar



7. Sri M. Srinivasa Rao



8. Sri S. AppalaNaidu.



02-04-2022

From

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

To

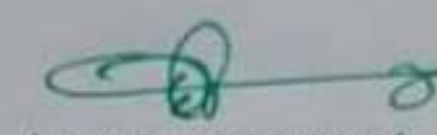
The Principal,
Govt. Degree College For Men,
Srikakulam.
Respected Madam,

Sub:- Dept. of Chemical Sciences – Seeking permission to organise a
certificate course for the academic year 2021-22-Reg.

As per the resolutions taken in the departmental staff meeting, dated 01-04-2022,
we are willing to organise a certificate course on "Pharmaceutical Analytical Chemistry" for
the academic year 2021-22 with the duration of 45 days. Hence, I request you to give
permission to organise the certificate course mentioned above.

Thanking you,

Yours faithfully,


(D. ADINARAYANA)

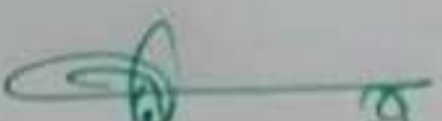
GOVERNMENT DEGREE COLLEGE FOR MEN, SRIKAKULAM
DEPARTMENT OF CHEMICAL SCIENCES
CERTIFICATE COURSE ON
"PHARMACEUTICAL ANALYTICAL CHEMISTRY"
2021-22

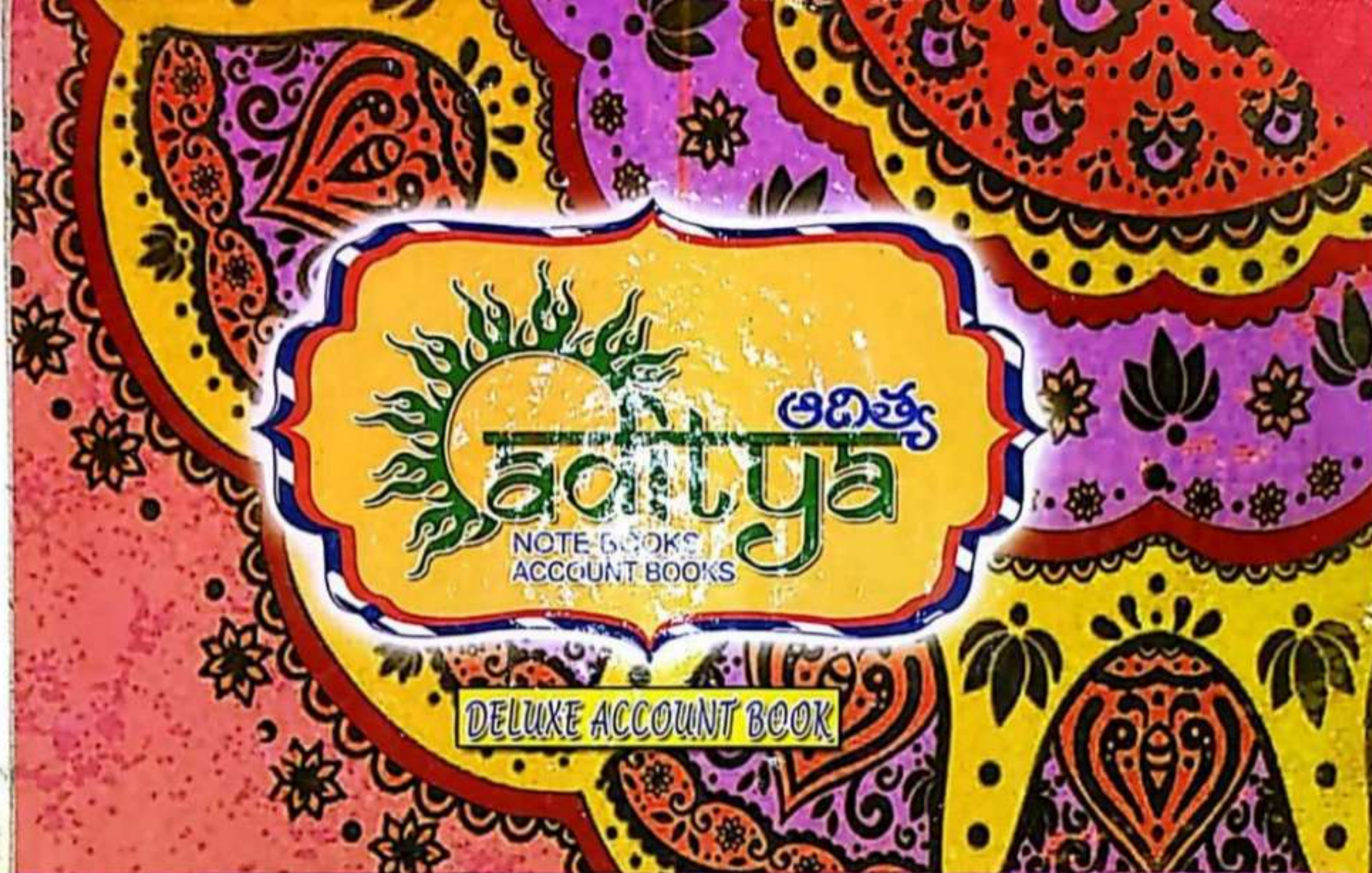
CIRCULAR

The class (theory/practical) of certificate course on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" will be commenced from 06-04-2022. The students who have interest to join in the certificate course shall give their names to the course coordinator Sri D. Adinarayana, in-charge on or before 04-04-2022.

90% of attendance is compulsory for the completion of the course and grade will be awarded to the students based on their performance. The duration of the course is 45 days.

III B.Sc (cluster)



Head of the Department



Govt. Degree College (Men), SriKakulam.

Dept. of Chemistry

Certificate Course on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



Inauguration of Certificate Course [2021-'22]

Dt: 06-04-2022

1. Name of the Certificate Course: "pharmaceutical Analytical Chemistry"

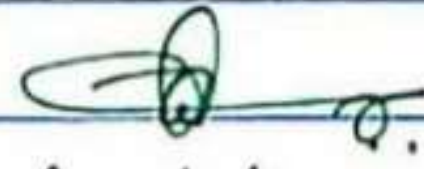
2. Date of Inauguration: 06-04-2022

3. Organised by: IQAC, GDC(Men), Srikakulam
&
Dept. of chemistry

4. Venue: Room No-11, Digital class room

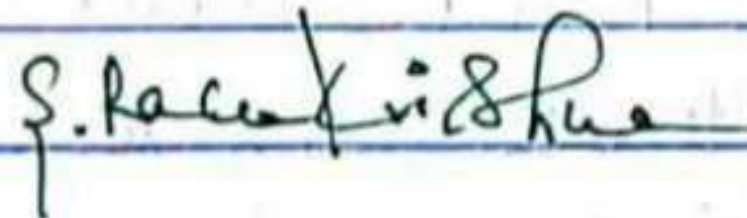
5. Chief Guest: Dr. P. Surekha
principal

6. IQAC Coordinator: Dr. Y. polinaide
lecturer in charge of
Dept. of Zoology

7. Course Co-ordinator: Sri D. Ashwaryane 
Incharge of the Dept. of chemistry

Members present

1. Dr. S. Rama Krishna
Lecturer in chemistry



2. Sri Y. Vamikumar
Lecturer in chemistry



3. Sri V. Ravikumar
Lecturer in chemistry

4. Dr. D. Santi priya Santhi Priya D
Lecturer in chemistry
5. Sri R. chandra sethar R. Chandra Sathar
Lecturer in chemistry
6. Sri R. Venkateswara Rao
Lect. in Industrial chemistry
- 7.

Students Attended

S.NO	Name of the student	Group	Signature
1	Kanchavara. Saitarun	BTZC	K. Saitarun
2	Nethiati. Tirupathi	M.P.C	N. Tirupathi
3	Varunapuri LAKSHMAN	M.P.C	V. Lakshman
4	KUNA. SRIRAM	M.P.C	K. Sri Ram
5	Gorec. NAVEEN	M.P.C	G. Naveen
6	MATTA NARESH	H.P.C	M. Naresh
7	BAGANA GANAPATHI	H.P.C	B. Ganapathi
8	JANI GOWRI SHANKAR	M.P.C	J. Gowri Shankar
9	Challa. Mohan	M.P.C	Ch. Mohan
10	Vada. Nagaraju	M.P.C	V. Nagaraju
11	BOLA. Sathish	M.P.C	B. Sathish
12	Dharmasa. Theerth	M.P.C	D. Theerth
13	Batra. Yashmoudu	M.P.C	B. Yashmoudu
14	Kothada. Lakshman Rao	M.P.C	K. Lakshman Rao
15	Varunapuri VENKATARAMAN	M.P.C	V. Venkataraman
16	Panche. reddy. Vishnu Murthy	M.P.C	P. Vishnu Murthy
17	Koyyana Jagadeesh	M.P.C	K. Jagadeesh
18	PALLI. POORNACHANDU	M.P.C	P. Poornachandu
19	PATTAMSETTI. NAVEEN	M.P.C	P. Naveen
20	NAKKA. Somaswara Rao	M.P.C	N. Somaswara Rao

S.NO	Name of the student	Group	Signature
21	TANANBI. TARUNKUMAR	M.P.C	T. Tarunkumar
22	BadiSetti. Ganesh	M.P.C	B. Ganesh
23	Jagilinki. Sankar	M.P.C	J. Sankar
24	Nakka. Unnamahesh	M.P.C	N. Unnamahesh
25	Kandivalasa. Sekhar	M.P.C	K. Sekhar
26	Pujari. Pavani	CBZ(EM)	P. Pavani
27	A. Yamini-Krishna	CBZ(EM)	A. Yamini-Krishna
28	YABATI. VENKATA SAI	M.P.C	Y. Venkata Sai
29	Peddi. Uday Kiran	M.P.C (T.M)	P. Uday Kiran
30	Ponnada. Tulasi Rao	M.P.C (T.M)	P. Tulasi Rao
31	DONKANA. MADHU	M.P.C (T.M)	D. Madhu
32	Ponnada. Mohan Babu	M.P.C (T.M)	P. Mohan Babu
33	Duppala. Chandrasa Rao	M.P.C	D. Chandrasa Rao
34	Panku. Jyothi	CBMB	P. Jyothi
35	J. Swetha	II nd C.B.Z	J. Swetha
36	M. Parveen	II nd M.P.C	M. Parveen
37	B. Ramu Murthy	III rd M.P.C	B. Ramu Murthy
38	S. Lijodhya	III rd C.B.M.B	S. Lijodhya
39	S. Simranika	III rd CBZ	S. Simranika
40	Akusingi. Srikiran	III rd (M.P.C)	A. Srikiran
41	G. Vidayaka	III rd (M.P.C)	G. Vidayaka
42	K. Chandrasekhar	III rd (M.P.C)	K. Chandrasekhar
43	N. Manjunadh	III rd (M.P.C)	N. Manjunadh

4 Registration Proforma

S.No	Name of the student	Group (cluster)	Course fee	Signature
1	V. Nagaraju	III MPC	Free (No fee)	V. Nagaraju
2	V. Lakshman	"		V. Lakshman
3	K. Jagadeesh	"		K. Jagadeesh
4	K. Sekhar	"		K. Sekhar
5	K. Sri Ram	"		K. Sri Ram
6	T. Tarun Kumar	"		T. Tarun Kumar
7	P. Poorna Chandu	"		P. Poorna Chandu
8	K. Lakshma Rao	"		K. Lakshma Rao
9	Y. Venkata Sai	"		Y. Venkata Sai
10	B. Nikhil	"		
11	N. Someswara Rao	"		N. Someswara Rao
12	P. Naveen	"		P. Naveen
13	B. Sateesh	"		B. Sateesh
14	P. Uday Kiran	"		P. Uday Kiran
15	B. Yarram Naidu	"		B. Yarram Naidu
16	P. Vishnu Murthy	"		P. Vishnu Murthy
17	D. Tharun	"		D. Tharun
18	G. Naveen	"		G. Naveen
19	G. Ravi	"		
20	P. Mohan Babu	"		P. Mohan Babu
21	M. Nareesh	"		M. Nareesh
22	P. Tulasi Rao	"		P. Tulasi Rao
23	B. Ganapati	"		B. Ganapati
24	J. Gowri Shankar	"		J. Gowri Shankar
25	V. Venkataramana	"		V. Venkataramana
26	N. Tirumathi	"		N. Tirumathi
27	Ch. Mohan	"		Ch. Mohan
28	D. Chandra Rao	"		D. Chandra Rao
29	A. Saikiran	"		A. Saikiran
30	G. Vinayaka	"		G. Vinayaka

5

S.No	Name of the student	Group (cluster)	Course fee	Signature
31	Y. Divakar	III MPC	No fee	Y. Divakar
32	D. Madhu	"		D. Madhu
33	B. Ganesh	III MCIC		B. Ganesh
34	J. Sankar	"		J. Sankar
35	B. Ramana Murthy	"		B. Ramana Murthy
36	N. Umamahesh	"		N. Umamahesh
37	K. Chandrasekhar	"		K. Chandrasekhar
38	K. Saitarun	III BTZC		K. Saitarun
39	A. Yamini Krishna	III CBZ		A. Yamini Krishna
40	P. Pavani	"		P. Pavani
41	S. Simmayya	"		S. Simmayya
42	S. Liyodhya	III CBMB		S. Liyodhya
43	P. Jyothi	III CBMB		P. Jyothi
44	d. Sreetha	III C.B.Z		d. Sreetha
45	M. Praveen	III M.P.C		M. Praveen
46	N. Manjunadh	III MCIC		N. Manjunadh

BROCHURE

1. Name of the Certificate Course with Code:
"Pharmaceutical Analytical Chemistry" - 01-PAC-2022

2. Objectives:

- (i) To inculcate basic concepts of various analytical methods among students.
- (ii) To understand basics in pharmaceuticals.
- (iii) To create interest among students to pursue higher education and also to work in pharmaceutical labs.
- (iv) To acquaint with analytical methods to develop laboratory skills among students and also to promote employability in the Quality Control Unit of various pharmaceutical and other industries.
- (v) To develop Communication & Soft Skills, ICT & Reasoning (Basics) among students.

3. Course Outcomes: At the end of the course

- (i) students will be able to understand methods of expressing concentration, the terms involved in titrimetry.
- (ii) students can distinguish types of titrations.
- (iii) students will be able to understand the concept of mole and related calculations, balancing of chemical equations, oxidation states.
- (iv) students will be able to understand basic terminology in pharmaceuticals.
- (v) students will be able to handle various instrumentation.
- (vi) students will acquire basic knowledge in communication, ICT & Reasoning.

4. Specifications of the Course: [01-PAC-2022]

- (i) Course duration : 45 days
- (ii) Course fee : Free Course
- (iii) Syllabus framing
- (iv) class work (Theory & practical) by Resource persons
- (v) Study material
- (vi) Assessment / Evaluation
- (vii) Feedback from the students
- (viii) Industrial visits if needed
- (ix) Certification

Evaluation	Marks Secured	Grade
	46 - 50 M	A
Max. Marks: 50 →	36 - 45 M	B
	25 - 35 M	C
	< 25 M	F (Fail)

Assessment / Evaluation [2021-22]

S.No	Name of the student	Group	Marks Secured (50M)	Grade
1	V. Nagaraju	III MPC	50	A
2	V. Lakshman	"	48	A
3	K. Jagadeesh	"	48	A
4	K. Sekhar	"	46	A
5	K. Sriharan	"	44	B
6	T. Tarunkumar	"	42	B
7	P. padma chandu	"	44	B
8	K. Lakshana Rao	"	48	A
9	Y. Venkata Sai	"	42	B
10	B. Nikhil	"	46	A
11	N. Someswara Rao	"	48	A
12	P. Naveen	"	48	A
13	B. Sateesh	"	46	A
14	P. Uday Kiran	"	40	B
15	B. Yarram Naidu	"	48	A
16	P. Vishnu Murthy	"	48	A
17	D. Thorun	"	38	B
18	G. Naveen	"	46	A
19	G. Ravi	"	36	B
20	P. Mohanbabu	"	46	A
21	M. Nareesh	"	46	A
22	P. Tulasi Rao	"	48	A
23	B. Ganapathi	"	46	A
24	J. Gowrisankar	"	46	A
25	V. Venkataramane	"	48	A
26	M. Tirupathi	"	46	A
27	ch. Mohan	"	40	B
28	D. Chandrasekhar	"	46	A
29	A. Saitirani	"	42	B
30	G. Vinayaka	"	50	A

S.No	Name of the student	Group	Marks Secured (50M)	Grade
31	Y. Divakar	III MPC	48	A
32	D. Madhu	"	44	B
33	B. Ganesh	III MCIC	48	A
34	J. Sankar	"	42	B
35	B. Ramana Murthy	"	46	A
36	N. Uma Mahesh	"	46	A
37	K. Chandrasekhar	"	44	B
38	K. Saitarun	III BtZC	48	A
39	A. Yamini Krishna	III CBZ	50	A
40	P. Pavani	"	48	A
41	S. Simmayya	"	42	B
42	S. Liyadhya	III CBMB	44	B
43	P. Jyothi	"	44	B
44	L. Swetha	III CBZ	48	A
45	M. Praveen	III MPC	40	B
46	N. Manjunadh	III MPC	32	C

 Discharge

Pupil

Attendance REGISTER



Certificate Course
on
pharmaceutical Analytical
chemistry "
[2021-22 to]



Name : _____



Std : _____



Subject : CHEMISTRY

School : Govt. Degree College (Men)
Srikakulam

NAME OF THE INSTITUTE

PURIL'S ATTENDANCE REGISTER

[illegible]

No. on Roll at the Beginning of month

Admitted during the month

Left No. on roll at end of month

FOR THE MONTH OF

Section :
Place :

[illegible]

No. of Working days

Average Attendance during the month

RUPIL'S ATTENDANCE REGISTER

[illegible]

Section :
Place :

[illegible]

NAME OF THE INSTITUTE

PUPIL'S ATTENDANCE REGISTER

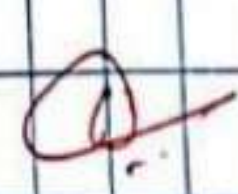
S.No.	Admission No.	Name of the Pupil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		V. Nagaraju	P	a	P	P	P	P	P	P	P	P	a	P	P	P	
2		V. Lakshman	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3		K. Jagadeesh	P	P	a	P	P	P	P	P	P	P	P	P	P	P	
4		K. Sekhar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5		K. Sairam	P	P	P	P	a	P	P	P	P	P	P	P	P	P	
6		T. Tarun Kumar	P	P	P	P	P	a	P	P	P	a	P	P	P	P	
7		P. Poorna Chandu	P	a	P	P	P	P	P	P	P	P	P	P	P	P	
8		K. Lakshmana Rao	P	P	P	P	P	P	a	P	P	P	P	P	P	P	
9		Y. Venkata Sai	P	P	P	P	P	P	P	P	P	P	P	P	a	P	
10		B. Nikhil	P	P	P	P	P	P	P	P	P	P	a	P	P	P	
11		N. Someswara Rao	a	P	P	P	P	P	P	P	P	P	P	P	P	P	
12		P. Naveen	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13		B. Sateesh	P	P	P	P	P	P	P	a	P	P	P	P	P	P	
14		P. Uday Kiran	P	P	P	P	P	P	P	a	P	P	P	P	P	P	
15		B. Yashram Naidu	P	P	P	P	P	P	P	P	P	a	P	P	P	P	
16		P. Vishnu Murthy	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17		D. Tharun	P	P	P	a	P	P	P	P	P	P	P	P	P	P	
18		G. Naveen	P	P	P	P	P	P	a	P	P	P	P	P	P	P	
19		G. Ravi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
20		P. Mohan Babu	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
21		M. Naseeb	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
22		P. Tulasi Rao	P	P	P	P	a	P	P	P	P	P	P	P	P	P	
23		B. Ganapathi	P	P	P	P	P	P	P	a	P	P	P	P	P	P	
24		J. Gowri Sankar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
25		V. Venkataswama	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
26		N. Tripathi	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
27		Ch. Mohan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
28		D. Chandee Rao	P	P	P	P	P	P	P	P	P	P	P	P	a	P	
29		A. Sai Kiran	P	P	P	P	P	P	P	P	P	P	P	a	P	P	
Number Present M																	
Daily E																	
Initials M																	
E																	

No. on Roll at the Beginning of month

Admitted during the month

Left No. on roll at end of month

FOR THE MONTH OF

(16)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Total Attendance															
43/45															
43/45															
44/45															
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43/45															
															

No. of Working days

Average Attendance during the m

PUPIL'S ATTENDANCE REGISTER

FOR THE MONTH OF

[illegible][illegible]

GOVERNMENT DEGREE COLLEGE (M), SRIKAKULAM

DEPARTMENT OF CHEMISTRY

Certificate course on PHARMACEUTICAL ANALYTICAL CHEMISTRY

Syllabus (Theory & Practical)

Unit –I : (Solutions, types of titrations)

Concentration terms, Methods of expressing concentration- percent by weight, percent by volume, Molality, Molarity, Normality and Mole fraction - preparation of standard solutions of acids, bases, oxidizing and reducing agents.

Definition of terms: Titrant, titrand, analyte, end point and equivalence point, indicator, standard titrant, titration.

Types of Titrations- Theory of Acid base Titrations- Acid-base indicators with examples, Theory of acid- base indicators, Choice of indicators. Theory of Redox titrations- Redox indicators with examples.

Unit-II: (Stoichiometry)

Balancing chemical equations- Concept of mole, calculation of molecular weights and equivalent weights of acids (HCl, H₂SO₄, CH₃COOH & HNO₃), bases (NaOH, Ca(OH)₂), oxidizing (K₂Cr₂O₇, KMnO₄ in acid and alkaline media) and reducing agents (H₂C₂O₄, FeSO₄) and salts (NaCl, Na₂CO₃, K₂SO₄) with examples-Stoichiometric calculations involving weight-weight, weight-volume, mole-weight and mole - volume relations with examples. Oxidation state- Oxidation number- rules for calculation of oxidation numbers, Concept of oxidation and reduction, oxidizing agent and reducing agent - Redox reactions

UNIT – III : (Basics in Pharmaceutics)

Pharmaceutical Dosage forms and New Drug Delivery systems: Solid, liquid, Gaseous Dosage Forms. Drug Delivery systems – Oral Drug delivery system, sustained action dosage forms, Transdermal Drug Delivery System-Ophthalmic drug delivery system-Contraceptive New Drug Delivery System-Additives in dosage forms.

Unit - IV : (Qualitative & Quantitative Analysis)

Qualitative inorganic salt analysis, titrimetric analysis, qualitative organic compound analysis, preparation of organic compounds, conductometric, potentiometric titrations, and pH metry.

Unit- V: (Communication & Soft Skills, ICT & Reasoning)

References:

1. Skoog, Fundamentals of Analytical Chemistry.
2. Vogel, Quantitative Chemical Analysis.
3. Cairns, Essential of Pharmaceutical Chemistry.
4. Indian Pharmacopoeia, Govt. of India Publication.
5. NCERT Textbooks (11th & 12th standards).



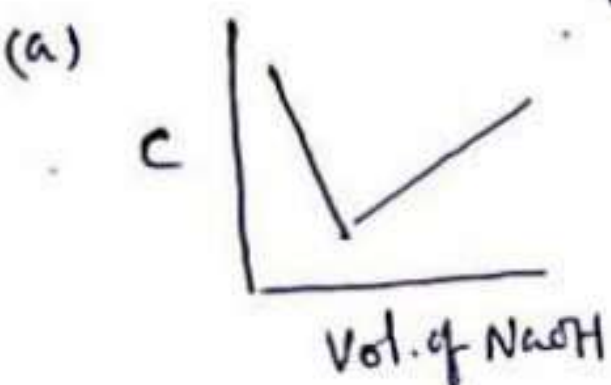
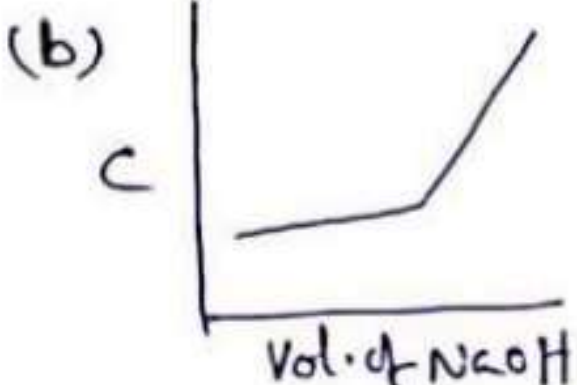
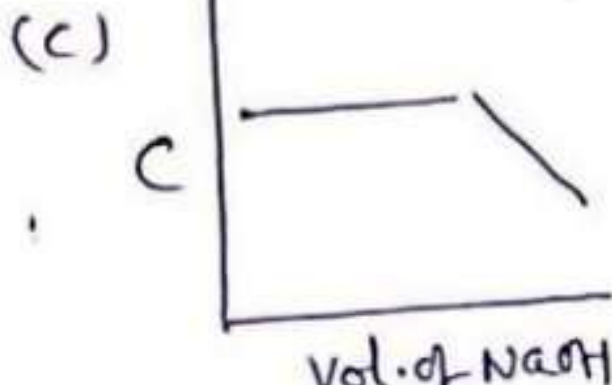
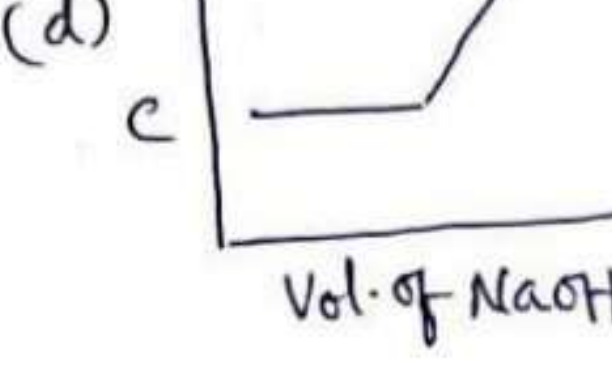


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Department of Chemistry

Certificate Course on "pharmaceutical Analytical chemistry"-2021-22
Objective type: Maximum Marks: 50M Time: 1 hour

Answer All Questions : $25 \times 2M = 50M$

1. ISP is []
(a) Internet system processing (b) Internet service provider
(c) Intelligent system processing (d) Intranet service provider
2. Which of the following is not a type of browser? []
(a) Chroma (b) Edge (c) Web (d) Opera
3. A network that links many different types of computers all over the world []
(a) Intranet (b) Arpanet (c) LAN (d) Internet
4. _____ can be presented by []
(a) Gestures (b) Body language (c) para language (d) Expressions
5. Communication is a _____ process []
(a) one way (b) Two way (c) Three way (d) Four way
6. A holiday is declared in organizations by _____ []
(a) a notice (b) a circular (c) a memo (d) an instruction sheet.
7. Thumb down is a gesture of []
(a) Interest (b) Approval (c) Disinterest (d) Disapproval
8. Equivalent weight of $KMnO_4$ in $KMnO_4 + 8H^+ + 5e^- \rightarrow K^+ + Mn^{+2} + 4H_2O$ []
(a) 158.04 (b) 31.608 (c) 23.79 (d) 52.68
9. Normality of 4g of NaOH dissolved in 250ml of solution []
(a) 4 N (b) 1 N (c) 0.4 N (d) 0.1 N
10. Oxidation number of oxygen in O_2F_2 is []
(a) -2 (b) -1 (c) +1 (d) +2
11. How many moles of glucose present in 540 g of glucose []
(a) 1 (b) 4 (c) 2 (d) 3
12. Which of the following indicators is a redox indicator []
(a) $KMnO_4$ (b) phenolphthalein (c) Methyl orange (d) Litmus

13. EBT-indicator is used in []
 (a) Redox titrations (b) Complexometric titrations (c) Acid-base titrations
 (d) precipitation titrations.
14. pharmaceutical dosage forms may be []
 (a) solid form (b) liquid form (c) gaseous form (d) All
15. NO_3^- ion is confirmed by []
 (a) AgNO_3 solution (b) Nessler's reagent (c) Brown ring test (d) conc. H_2SO_4
16. In the potentiometric titrations of $\text{Fe}^{2+} + \text{Ce}^{4+} \rightarrow \text{Fe}^{3+} + \text{Ce}^{3+}$, pt-electrode potential depends on []
 (a) $[\text{Fe}^{3+}]/[\text{Fe}^{2+}]$ (b) $[\text{Fe}^{2+}]/[\text{Fe}^{3+}]$ (c) $[\text{Ce}^{4+}]/[\text{Ce}^{3+}]$ (d) $[\text{Ce}^{3+}]/[\text{Ce}^{4+}]$
17. which of the following test is used for the identification of 1°-amines []
 (a) Haloform test (b) Molish test (c) carbylamine test (d) Biuret test
18. units for conductance []
 (a) ohm (b) cm^{-1} (c) $\text{ohm}^{-1}\text{cm}^{-1}$ (d) Siemen
19. which of the following curves is correct for the titration of HCl vs NaOH Conductometrically. []
 (a) 
 (b) 
 (c) 
 (d) 
20. Volume of CO_2 at STP when 4g of CaCO_3 is heated. []
 (a) 22.4 l (b) 8.96 l (c) 11.2 l (d) 4.44 l
21. oxidation state of 'S' in $\text{H}_2\text{S}_2\text{O}_8$ []
 (a) +6 (b) +8 (c) +2 (d) +4
22. which of the following chemical is used for the preparation of standard solution. []
 (a) NaOH (b) HCl (c) Oxalic acid (d) KMnO_4
23. 1 amu = ? []
 (a) 1.66×10^{-24} g (b) 1.675×10^{-24} g (c) 9.11×10^{-28} g (d) 1.602×10^{-19} g
24. Accuracy of a determination is measured by []
 (a) Mean deviation (b) Variance (c) Relative error (d) Std. deviation
25. Starch indicator is used in []
 (a) Acid-base titrations (b) Complexometric
 (c) precipitation (d) Iodometric titrations.

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on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course with A Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum.K. CHANDRA SEKHAR.....
ofIII MCIC..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withB..... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. K. SAI TARUN
ofIII BtZC..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
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(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

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DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. A. YAMINI KRISHNA
of III CBZ got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
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(Dr. P. SUREKHA)
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DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. P. PAVANI
ofIII.CBZ..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withA.... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. S. SIMMAYYA
ofIII.CBZ..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withB..... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

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DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. S. LIYODHYA
ofIII CBMb..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withB..... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



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ofIII CBMb..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
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Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. L. SWETHA
ofIII.CBZ..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withA.... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. M. PRAVEEN
ofIII MPC..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withB..... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMISTRY



Certificate Course

on

PHARMACEUTICAL ANALYTICAL CHEMISTRY



*This is to certify that Mr. / Kum. N. MANJUNADH
ofIII MPC..... got registered himself / herself for the certificate course
on "PHARMACEUTICAL ANALYTICAL CHEMISTRY" organized by
Department of Chemistry held from 06-04-2022 to 20-06-2022 and
completed the course withC.... Grade.*

(D. ADINARAYANA)
Course Coordinator

(Dr. P. SUREKHA)
Principal

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMICAL SCIENCES

FEEDBACK FORM (2020-21)

CERTIFICATE COURSE ON

~~DRINKING WATER ANALYSIS~~

pharmaceutical Analytical chemistry

1. Name of the Student : K. Sekhar
2. Class : 3rd .M.P.C.
3. Did the Course fulfil its objectives : Yes
4. Were the concepts explained in
The course : Yes
5. How useful the course for you :
I understood stoic
hometre.
6. Overall Rating of the course : Very good.
7. Suggestion if any : better to learn more
parameters to be
analysed.
8. Signature of the Student : K. Sekhar.

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

FEEDBACK FORM (2024-25)
CERTIFICATE COURSE ON

~~(DRINKING WATER ANALYSIS)~~
pharmaceutical Analytical chemistry

1. Name of the Student : V. Nagaraju
2. Class : 3rd MPE
3. Did the Course fulfil its objectives : yes
4. Were the concepts explained in
The course : yes
5. How useful the course for you : I understood sto-
-chiometric.
6. Overall Rating of the course : very good
7. Suggestion if any : Better to learn
more parameters to
be analysed
8. Signature of the Student : V. Nagaraju

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMICAL SCIENCES

FEEDBACK FORM (2021-22)

CERTIFICATE COURSE ON

~~DRINKING WATER ANALYSIS~~
Pharmaceutical Analytical Chemistry

1. Name of the Student : B. Satish
2. Class : 3rd MPC
3. Did the Course fulfil its objectives : Yes
4. Were the concepts explained in
The course : Yes
5. How useful the course for you : I understood basic
Pharmaceutical
6. Overall Rating of the course : Very good
7. Suggestion if any : Better to learn more
Pharmaceutical
8. Signature of the Student : B. Satish

GOVERNMENT DEGREE COLLEGE (MEN), SRIKAKULAM

DEPARTMENT OF CHEMICAL SCIENCES

FEEDBACK FORM (2021-22)

CERTIFICATE COURSE ON

(~~PHARMACEUTICAL AND ANALYTICAL CHEMISTRY~~)
Pharmaceutical ~~and~~ Analytical chemistry

1. Name of the Student : J. Revathi Pathi
2. Class : 3rd mpc
3. Did the Course fulfil its objectives : Yes
4. Were the concepts explained in
The course : Yes
5. How useful the course for you :
I understood stio-chemistry
6. Overall Rating of the course : very good
7. Suggestion if any : Better to learn more parameters be analysed
8. Signature of the Student : J. Revathi Pathi