



Dr V S Krishna Government Degree & PG College

An Autonomous Institution Affiliated to Andhra University

Reaccredited by NAAC with "A" Grade(3rd cycle)

Nodal Resource Centre & Centre for Research Studies



Clinical Lab Technology Results Students for the year 2022-23

S.No	NAME	HT Number	SECTION	GRADE
1	ANNEPU SIMHACHALAM	MPC 22BSMP001	I B.Sc (M.P.C)	O
2	BANTU GOPI	22BSMP003	I B.Sc (M.P.C)	A
3	BHUMIREDDY CHAKRADHAR	22BSMP004	I B.Sc (M.P.C)	O
4	BOGADIJANA KESWARA RAD	22BSMP005	I B.Sc (M.P.C)	A
5	CHEDDA PALLAVI	22BSMP010	I B.Sc (M.P.C)	O
6	DAKKATA SHIVA	22BSMP013	I B.Sc (M.P.C)	O
7	DANASANI MEENAKSHI	22BSMP014	I B.Sc (M.P.C)	O
8	DARAPU CHIRANJEEVI	22BSMP015	I B.Sc (M.P.C)	O
9	DARAPU GANESH	22BSMP016	I B.Sc (M.P.C)	A
10	VEDURLA NEELAMANI	22BSMP017	I B.Sc (M.P.C)	A
11	GADI JAYAKRISHNA	22BSMP018	I B.Sc (M.P.C)	A
12	GANDAMANA MOHANA LAKSHMI	22BSMP019	I B.Sc (M.P.C)	O
13	GEMMELI DIVYA KRUPA	22BSMP020	I B.Sc (M.P.C)	A
14	GEMMELI NI THIN	22BSMP021	I B.Sc (M.P.C)	A
15	GEMMELI THIRUPATHI	22BSMP022	I B.Sc (M.P.C)	A
16	GOKADA SAI	22BSMP023	I B.Sc (M.P.C)	A
17	GORLE SIVA	22BSMP025	I B.Sc (M.P.C)	O
18	GUMMADI VENKATA MURTHY	22BSMP028	I B.Sc (M.P.C)	O
19	GUNDA SRINIVAS	22BSMP029	I B.Sc (M.P.C)	A
20	JAMI. ASHUVA KUMAR	22BSMP030	I B.Sc (M.P.C)	O
21	KALYANS JANAKI	22BSMP032	I B.Sc (M.P.C)	O
22	KILLO RAJ KUMAR	22BSMP038	I B.Sc (M.P.C)	A
23	KINJIRI RAMARATU	22BSMP039	I B.Sc (M.P.C)	O
24	KODA MEGHA SWAPNA	22BSMP040	I B.Sc (M.P.C)	A
25	KORADA SAI KUMAR	22BSMP041	I B.Sc (M.P.C)	O
26	KORRA SIMHADRI	22BSMP042	I B.Sc (M.P.C)	O
27	KOTNI LAVANYA	22BSMP043	I B.Sc (M.P.C)	A
28	KOUVADA DIVYA	22BSMP044	I B.Sc (M.P.C)	A
29	KUMILI SANTHI KUMARI	22BSMP045	I B.Sc (M.P.C)	A
30	LAKE VIKAS GAVASKAR	22BSMP047	I B.Sc (M.P.C)	A

J. V. S.
PRINCIPAL
Dr. V.S. Krishna Govt. Degree College (A)
VISAKHAPATNAM



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DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE

On

CLINICAL LAB TECHNOLOGY

02-03-2023

to

11-04-2023

Venue
Chemistry Lab

K. Nageswararao
Course Coordinator

Dr I.Vijayababu
Principal



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Request Letter

From

Course Coordinator,

Dr. V. S. Krishna Govt. Degree and PG College (Autonomous),

Visakhapatnam.

To

The Principal,

Dr. V. S. Krishna Govt. Degree and PG College (Autonomous),

Visakhapatnam.

Sir,

The Department of Chemistry in its meeting held on 24-01-2023 and passed a resolution to start an Add-on Course titled Clinical Lab Technology for the academic year 2022-23. Hence, we request you to kindly grant the permission to start the course from 02nd Mar 2023.

Thanking you Sir,

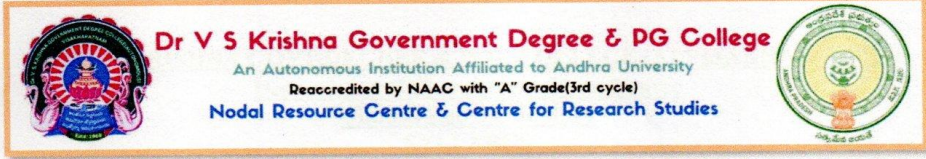
Yours Faithfully,

K. Nageswara Rao

(K. NAGESWARA RAO)

LECT. IN CHEMISTRY

Coordinator of CLT



Circular

This is to inform all the students & staff of the College that the Department of Chemistry is going to start an Add-on Course titled **CLINICAL LAB TECHNOLOGY** for the academic year 2022-23. So interested students are hereby instructed to contact Sri. K. Nageswara Rao Course Coordinator for enrolment and further details.

Date: 24-01-2023

Station: Visakhapatnam.

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VISAKHAPATNAM

Signatures:

Dr. V. S. KRISHNA GOVT.DEGREE & P. G. COLLEGE (A) VISAKHAPATNAM

Department of Chemistry Add on Course

Clinical Lab Technology

SYLLABUS

Learning Objectives:

After successful completion of the course, student will be able to learn:

LO1: Understand the concept of solutions, carbohydrates, lipids , vitamins and minerals, biological functioning in the human body and its importance.

LO2: Describe the composition of blood, understand its functions, and perform various blood tests to assess its components.

LO3: Demonstrate proficiency in conducting practical experiments related to blood testing, including group identification, haemoglobin estimation, blood sugar testing, lipid profiling, liver and kidney function tests, and serum electrolyte assessments.

Course Outcomes:

On completion of the course, student can able to

CO1: Gain comprehensive knowledge of solutions, including their definition, various concentration methods, and their significance in different contexts.

CO2: Develop a thorough understanding of carbohydrates and lipids, encompassing their definitions, biological roles, classifications, and clinical implications.

CO3: Acquire proficiency in amino acids and proteins, covering their definitions, biological significance, classification, and methods for qualitative analysis.

CO4: Familiarise oneself with vitamins and minerals, including their classifications, dietary sources, deficiency diseases, and clinical testing procedures.

CO5: Understand the composition and functions of blood, as well as the tests used to assess its components.

CO6: Develop practical skills in performing various blood tests, including group identification, haemoglobin estimation, blood sugar testing, lipid profiling, liver and kidney function tests, and serum electrolyte assessments

1. Solutions:	2 hrs
Definition, different concentration methods	
2. Carbohydrates and Lipids	4 hrs
(a) Carbohydrates: Definition, biological importance, classification, qualitative tests	
(b) Lipids: Definition, biological importance, classification and clinical importance.	
3. Amino acids Proteins	4 hrs
Definition, biological importance, classification, and qualitative tests.	
4. Vitamins and Minerals	4 hrs
(a) Vitamins: Classification, source, deficiency diseases	
(b) Minerals: source, importance, deficiency diseases and clinical tests	
5. Blood composition	4 hrs
Blood composition functions tests	
6. Practical	12 hrs
(a) Blood tests, group identification, haemoglobin, other tests	
(b) Blood sugar test	
(c) Lipid profile test	
(d) Liver function test	
(e) Kidney function test	
(f) Serum calcium, Sodium, Potassium test	

Dr. V. S. KRISHNA GOVT.DEGREE & P. G. COLLEGE (A) VISAKHAPATNAM
DEPARTMENT OF CHEMISTRY
CLINICAL LAB TECHNOLOGY Question Paper

Time: 3 Hours

Max. Mark: 75

SECTION – A

Answer any **FIVE** questions. Each question carries 2 Marks. (5 X 2 = 10 Marks)

1. Define Molarity?
2. Write a Molisch test?
3. What are amino acids?
4. Write about the deficiency disease of vitamin A?
5. Give two Two examples of essential amino acids?
6. Give Two biological functions of Na?

SECTION – B

Write any **FIVE** questions. Each question carries 5 Marks. (5 X 5 = 25 Marks)

7. Explain various concentration methods of solutions?
8. Define Molarity and Lipids ?
9. Explain about Blood sugar test?
10. What is Haemoglobin? Explain its functions?
11. Write about Blood clotting and the role of vitamins in it?
12. What are amino acids? Explain their classification?
13. Explain about serum creatinine and serum urea test?
14. Explain about Liver function test?

SECTION – C

Answer any **FOUR** questions. Each question carries 10 Marks. (4 X 10 = 40 Marks)

- 15 Explain the composition of Blood and its function?
16. What are carbohydrates? Explain their classifications and biological importance?
17. Explain the sources and biological importance of Na, K and Ca.
18. Explain the sources and deficiency diseases of vitamin A, B, C, D,E.
19. Explain the functions, biological importance and normal levels of Cholesterol.
20. What are Proteins? Explain their functions and tests to identify?



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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH



Value Added Course Certificate

2022 to 2023.

This is to certify that Mr./Miss...KODA MEGHA SWAPNA.....of
I B.Sc (M.P.C).....has successfully completed the Value Added Course in...Clinical Lab Technology
with Regd No...22BSMP040.....Organized by the Department of...Chemistry.....in
collaboration with.....during year 2022 to 2023.. He/She has passed the course with
....."A".....grade.

**Academic
Coordinator**

**IQAC
Coordinator**

**Course
Coordinator**

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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH



Value Added Course Certificate

2022 to 2023.

This is to certify that Mr./Miss. KORRA SIMHADRI of
B.Sc. (M.P.C.) has successfully completed the Value Added Course in Clinical Lab Technology
with Regd No. 22BSMP042 Organized by the Department of Chemistry in
collaboration with..... during year 2022 to 2023. He/She has passed the course with
"O" grade.

**Academic
Coordinator**

**IQAC
Coordinator**

**Course
Coordinator**



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Dr. V.S. Krishna Govt. Degree College(A)**



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MADDILAPALEM, VISAKHAPATNAM-530013. ANDHRA PRADESH



Value Added Course Certificate

2022 to 2023.

This is to certify that Mr./Miss. KORADA SAI KUMAR of
I.B.Sc. (M.P.C.) has successfully completed the Value Added Course in Clinical Lab Technology
with Regd No. 22BSMP041. Organized by the Department of Chemistry in
collaboration with..... during year 2022. to 2023. He/She has passed the course with
"0" grade.

**Academic
Coordinator**

**IQAC
Coordinator**

**Course
Coordinator**

PRINCIPAL

Dr. V.S. Krishna Govt. Degree College(A)

