A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (A), KAKINADA



DEPARTMENT OF MICROBIOLOGY

CERTIFICATE COURSE

ON

Introductory to Clinical Laboratory Techniques

(CC23ICLT/MB)

2023-24

Duration: 40 Hrs

A.S.D. GOVERNMENT DEGREE COLLEGEFOR WOMEN (A)

NAAC Re-Accredited With "B" Grade in Cycle-III

Affiliated to Adikavi Nannaya University, Rajamahendravaram

Kakinada-533 002, Andhra Pradesh



Department of Microbiology

A SKILL DEVELOPMENT CERTIFICATE COURSE ON

"Introductory to Clinical Laboratory Techniques"

ADMISSION NOTIFICATION 2023 - 24

* Dear Learners!

Are you interested in Clinical laboratory Techniques? Then! Here is an Opportunity for you.

The department of Microbiology offers a certificate course in this field.



- · Course Highlights
- This course aims at imparting skills on use of various clinical laboratory techniques that are essential for disease diagnosis in medical laboratory.
- At the end of course, the student will be expertise in these techniques efficiently and can find a career opportunity as lab technician in Diagnostic centers.

Target Group

B. Sc (First/ Second Year)

Last Date for enrolment: 20-02-2024



Details Contains

3mt. D. Jayasree

Course Coordinator

MICROBIOLOGY DEPARTMEN

Lecturer In-Charge, Department of Microbiology

Phone No.: 8121000338

A.S.D.GOVT.DEGREE COLLEGE AUTONOMOUS

A.S.D. Government Degree College for Women (Autonomous), Kakinada DEPARTMENT OF MICROBIOLOGY

	H. Cartificate Course	Credits: 2
B.Sc	Semester: II : Certificate Course	Total hour
CC23ICLT/M	Introduction to Clinical Laboratory Techniques	40

Course Duration: 40 Hours

Eligibility: All B.Sc. Second Year students

Objectives:

- 1. This course aims at imparting skills on use of various clinical laboratory techniques that are essential for disease diagnosis in medical laboratory.
- 2. At the end of course, the student will be expertise in these techniques efficiently and can find a career opportunity as lab technician in Diagnostic centers.

Course Outcomes:

- Pursue a career as a Microbiology Laboratory Technician
- · Learn how to diagnose diseases
- · Receive guidelines on how to get a job in this field

Course Syllabus:

Unit I: Introduction to Microbiology & Microorganisms

History, Scope & Importance of Microbiology

Prokaryotic microorganisms: General characters of Bacteria

Eukaryotic microorganisms: Habitat, nutrition, vegetative structure and reproduction of

Fungi, Algae and Protozoa

General characteristics and classification of viruses

Unit II: Bacterial Disease Diagnosis

Principles of Microscopy and Staining techniques Culture and Biochemical techniques for diagnosis. Species Identification: Phenotyping, Genotyping & Serotyping Antibiotic Susceptibility Testing

Unit III: Sero & Molecular Diagnosis

PCR and ELISA Serological diagnosis techniques Responsibilities of a Lab Technician

- Additional Input: Career Opportunities in Microbiology
- Web link: https://www.udemy.com/course/become-a-microbiology-laboratory- technician/

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Microbiology Certificate Course (2023-24)

Introductory to Clinical Laboratory Techniques

List of Students Enrolled for Certificate Course

S.No	Regd.No	Name of the Student	Programme
1	2375002	D HIMA MALA	Botany Honours
2	2375008	GARIKINA SUPRIYA	Botany Honours
3	2375013	CHIKKAM CHAKRAVENI	Botany Honours
4	2375014	DHAKSHARAPU DIVYAKALYANI	Botany Honours
5	2375015	GADUTHURI SIVA LAKSHMI	Botany Honours
6	2375020	MADDA SUJATHA	Botany Honours
7	2375022	MUKE SHARMILA	Botany Honours
8	2375023	NEMALA ANJALI	Botany Honours
9	2375024	PILLI NEHA	Botany Honours
10	2375025	SAMMIDI JAYANTHI	Botany Honours
•11	2376002	DARIPALLI SUVARNA	Zoology Honours
12	2376008	GUTTULA DEVI SRI	Zoology Honours
13	2376013	MUMMASANI MANASA	Zoology Honours
14	2376024	GODA BINDU MADHAVI	Zoology Honours
15	2376025	GUDALA RAMYA	Zoology Honours
16	2376030	MADHURA BHARGAVI	Zoology Honours
17	2376033	MASABATTULA MUKUNDA JASHMINE	Zoology Honours
18	2376035	PATNALA VYSHNAVI	Zoology Honours

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MICROBIOLOGY DEPARTMEN
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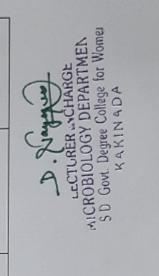
DEPARTMENT OF MICROBIOLOGY

Certificate Course

Introduction to Clinical Lab techniniques

TIME TABLE

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	-	4PM TO 5PM	actical —			M.7A		
,	9	3PM TO 4PM	/ III 6A Practical			Lab P7A		
	2	2PM TO 3PM	III 6A	=		J		
3	VE BBI CH CH							
	3	12 TO 1PM	П	→ III 6A	П	I Core-2	III P7A	П
	2	11AM TO 12NOON	А7 Ш			III P6A		III P7A
	1	10AM TO 11AM		- II Practical	W III 6A		I Core-2	II Tutor/Ward
	•	9AM to		Certificate			Certificate course	
		Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



DEPARTMENT OF MICROBIOLOGY CERTIFICATE COURSE (2023-24)

Introductory to Clinical Laboratory Techniques

			Attenda	nce	_	5	*	+	4	4	. 5				
S.No	Regd.No	Name of the Student	Progra mme	क्दिराद	मित्र	रीरहित	242/2	द्रिश्न	하다	र्घटि	29/2/2	中部	2/3/24	4364	श्विष्ट
1	2375002	D HIMA MALA	Botany Honours	D	P	P	A	P	P	P	a	P	P	P	A
2	2375008	GARIKINA SUPRIYA	Botany Honours	0	P	A	A	a	P	A	P	a	P	P	A
3	2375013	CHIKKAM CHAKRAVENI	Botany Honours		P	P	P	P	P	P	P	P	P	P	P
4	2375014	DHAKSHARAPU DIVYAKALYANI	Botany Honours	P	P	P	P	P	a	P	P	P	P	P	P
5	2375015	GADUTHURI SIVA LAKSHMI	Botany Honours	P	a	P	P	P	P	P	P	a	P	P	P
6	2375020	MADDA SUJATHA	Botany Honours	P	P	P	P	P	P	P	P	P	a	P	P
7	2375022	MUKE SHARMILA	Botany Honours	P	P	P	P	P	a	P	a	P	P	P	P
8	2375023	NEMALA ANJALI	Botany Honours	2	P	A	P	P	P	P	P	P	P	P	P
9	2375024	PILLI NEHA	Botany Honours	P	P	A	ρ	P	P	A	P	P	P	P	A
10	2375025	SAMMIDI JAYANTHI	Botany Honours	P	P	P	P	P	P	P	P	P	a	P	P
11	2376002	DARIPALLI SUVARNA	Zoology Honours	A	A	A	_	_	do	ng.	Ab	ien	t.		
12	2376008	GUTTULA DEVI SRI	Zoology Honours	ρ	a	P	P	P	a	P	P	P	P	P	P
13	2376013	MUMMASANI MANASA	Zoology Honours	a	P	P	P	P	P	A	P	P	P	P	P
14	2376024	GODA BINDU MADHAVI	Zoology Honours	P	P	P	P	P	P	P	P	P	a	P	P
15	2376025	GUDALA RAMYA	Zoology Honours	0	P	P	P	a	P	P	a	P	P	P	P
16	2376030	MADHURA BHARGAVI	Zoology Honours	P	ρ	P	P	a	P	P	P	P	P	P	P
17	2376033		Zoology Honours	a	P	A	P	P	P	P	P	P	P	P	P
18	2376035	PATNALA VYSHNAVI	Zoology Honours	P	P	P	P	P	P	P	a	P	a	P	P

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KAKINADA

DEPARTMENT OF MICROBIOLOGY CERTIFICATE COURSE (2023-24)

Introductory to Clinical Laboratory Techniques

Attendance

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2375008	GARIKINA SUPRIYA	Botany Honours	P	a	P	P	P	P	a	P	P	P	a	P
2375013		Botany Honours	P	P	a	P	P	P	P	P	P	P	P	P
2375014	DHAKSHARAPU DIVYAKALYANI	Botany Honours	P	P	P	P	P	P	P	P	a	P	P	P
2375015	GADUTHURI SIVA LAKSHMI	Botany Honours	P	P	P	P	a	P	P	P	P	P	P	P
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8	2375023	NEMALA ANJALI	Botany Honours	P	P	P	P	a	P	P	P	P	P	P	P
9	2375024	PILLI NEHA	Botany Honours	a	P	P	P	a	P	P	P	P	P	P	P
10	2375025	SAMMIDI JAYANTHI	Botany Honours	P	P	a	P	P	P	P	P	8	P	P	P
11	2376002	DARIPALLI SUVARNA	Zoology Honours	-					-	LA					
12	2376008	GUTTULA DEVI SRI	Zoology Honours		P	P	P	P	P	1	P	P	P	P	a
13	2376013	MUMMASANI MANASA	Zoology Honours		P	P	P	P	P	P	P	P	P	P	P
14	2376024	GODA BINDU MADHAVI	Zoology	1	P	P	10	P	P	P	0	0	0	0	0

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MUKE SHARMILA

GUDALA RAMYA

JASHMINE

MADHURA BHARGAVI

PATNALA VYSHNAVI

MASABATTULA MUKUNDA

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3.	P	P	P	a	P	P	P	P	P	P	a	P	9	P	P	4	
4.	P	P	P	p	P	P	P	P	P	P	P	P	a	P	P	P	
5.	P	P	P	P	P	a	P	P	P	P	P	a	P	P	P	P	
6.	P	P	a	a	P	P	P	P	P	P	P	P	P	1	P	P	
7.	P	P	a	P	a	P	P	a	P	P	P	P	P	a	P	P	
8.	a	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9.	P	P	a	P	P	P	P	P	a	P	a	P	P	P	P	P	
10.	P	P	a	P	a	P	P	P	P	P	P	a	P	P	P	P	
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12.	P	P	P	P	P	a	a	P	P	P	P	P	P	P	P	P	
13.	P	P	P	a	P	P	P	9	P	a	P	P	P	P	P	P	
14.	a	P	P	P	P	a	P	P	P	P	P	P	P	P	P	P	
15.	a	P	P	P	P	P	P	P	P	P	P	P	P	P	P	a	
16.	P	8	a	P	9	P	P	a	P	P	P	P	P	1	P	P	
17.	P	P	P	P	P	a	P	P	P	P	a	P	P	P	P	P	
18.	P	P	P	a	P	P	P	P	P	1	P	P	B	P	P	P	

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Introductory to Clinical Laboratory Techniques

Model Question Paper

Time: 2 Hrs

Max Marks: 40

Section-A

Answer any Ten of the following questions

10x2=20 M

- 1. Anton von Leeuwenhoek
- 2. Biogenesis Vs Abiogenesis
- 3. Scope of Microbiology
- 4. Prokaryote
- 5. Algae
- 6. Protozoa
- 7. Culture Media
- 8. Phenotype
- 9. Disinfection
- 10. UV sterilization
- 11. Vaccine
- 12. Agar agar

Section-B

Answer any Four of the following questions

4X5=20 M

Draw neat labeled diagrams wherever necessary

- 1. Write about History, Scope & Importance of Microbiology?
- 2. Give outlines of general characteristics and classification of viruses?
- 3. Write in detail Principles of light Microscopy?
- 4. Explain methods of Antibiotic Susceptibility Testing?
- 5. Give detailed account on working principle of PCR technique?
- 6. Define Vaccine? Write different types of vaccines?

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ASD Govt. Degree College for Women (A), Kakinada

Microbiology Certificate Course (2023-24) Introductory to Clinical Laboratory Techniques

Result & Marks obtained &

Exam	Date	1	21	7	24
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.No	Regd.No	Name of the Student	Programme	Marks
1	2375002	D HIMA MALA	Botany Honours	22
2	2375008	GARIKINA SUPRIYA	Botany Honours	25
3 2375013		CHIKKAM CHAKRAVENI	Botany Honours	23
4	2375014	DHAKSHARAPU DIVYAKALYANI	Botany Honours	23
5	2375015	GADUTHURI SIVA LAKSHMI	Botany Honours	20
6	2375020	MADDA SUJATHA	Botany Honours	20
7	2375022	MUKE SHARMILA	Botany Honours	25
8	2375023	NEMALA ANJALI	Botany Honours	25
9	2375024	PILLI NEHA	Botany Honours	25
10	2375025	SAMMIDI JAYANTHI	Botany Honours	26
11	2376002	DARIPALLI SUVARNA	Zoology Honours	Long Absent
12	2376008	GUTTULA DEVI SRI	Zoology Honours	37
13	2376013	MUMMASANI MANASA	Zoology Honours	28
14	2376024	GODA BINDU MADHAVI	Zoology Honours	24
15	2376025	GUDALA RAMYA	Zoology Honours	35
16 2376030		MADHURA BHARGAVI	Zoology Honours	36
17 2376033		MASABATTULA MUKUNDA JASHMINE	Zoology Honours	40
18	2376035	PATNALA VYSHNAVI	Zoology Honours	30

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S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), KAKINADA



Department of Microbiology

year 2023 - 24 from February 2024 to April 2024. Department of Microbiology with -----grade for the academic Course in "Introductory to Olivical Laboratory Techniques" Conducted by This is to certify that Ms----of class/group has successfully completed Certificate



Convenor

LECTURER MCHARGE

MICROBIOLOGY DEPARTMENT S.D. Govt. Degree College for Womes KAKINADA

V. Mach O.

Principal

ASD GOVI DEGREE COLLEGE

DEPARTMENT OF MICROBIOLOGY Brief report on Certificate Course Academic Year 2023-24

Name of the Certificate Course	Certificate Course on "Introductory to Clinical Laboratory Techniques" (CC23ICLT/MB)
Academic Year of Course	2023-24
Department Conducting the Course	Department Of Microbiology
Duration Of the Course	40 Hrs
Number of Students Completed the Course	18 Students
Brief Report	Certificate Course on "Introductory to Clinical Laboratory Techniques" (CC23ICLT/MB) was conducted by the department of Microbiology for 40hrs in which total 18 students were enrolled. The course was held from February 2024 to April 2024. All the students appeared for the examination conducted at the end of the course and completed the course. They have been given grades. The certificates are also given to them.
Number of Beneficiaries	Students: 18
Signature of the Certificate Course Coordinator	MICROBIOLOGY DEPARTMEN
Signature & Stamp of the Principa	S.D. Govt. Degree College for World KAKINADA PRINCIPAL
	A.S.D.GOVT.DEGREE COLLEGE (