

# ABSTRACT

The synthesis of nanoparticles from biological processes is evolving a new era of research interests in nanotechnology. Silver nanoparticles are usually synthesized by chemicals which are quite toxic and flammable in nature. This study deals with an environment friendly and biosynthesis process of antibacterial silver nanoparticles using bamboo leaves. The formation and characterization of AgNPs were confirmed by UV-Vis spectroscopy, energy-dispersive spectroscopy (EDX), X-ray diffraction (XRD) and transmission electron microscope (TEM). The antimicrobial activities were carried out against E.coli and S. aureus strains by using disc diffusion method.



# THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (Autonomous)

(Affiliated to Madurai Kamaraj University, Reaccredited with 'A+' Grade by NAAC,  
College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

SIVAKASI - 626 123, TAMIL NADU, INDIA



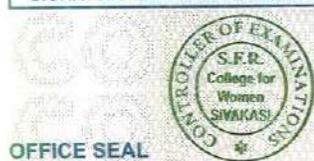
M.Sc., DEGREE EXAMINATIONS, NOVEMBER 2024

CSFR : 230668

## STATEMENT OF MARKS AND GRADES - LOCF with CBCS

NAME : GOWSIKA M S				CENTRE CODE AA615			REGISTER No.: 23PC002							
MAJOR : CHEMISTRY							DATE OF PUBLICATION : 29-11-2024							
MEDIUM OF INSTRUCTION : ENGLISH														
SEM	Part	CODE	TITLE OF THE COURSE	CREDITS	MAXIMUM			MARKS SECURED			GRADE POINT	GRADE	RESULT	M & YR
					INT	EXT	TOTAL	INT	EXT	TOTAL				
I	A	23PCC11	ORGANIC REACTION MECHANISM - I	4	25	75	100	19	41	60	6.0	A	P	A2
	A	23PCC12	SOLID STATE CHEMISTRY	4	25	75	100	16	58	74	7.4	A++	P	N2
	A	23PCC1L	ORGANIC CHEMISTRY PRACTICAL	4	25	75	100	25	64	89	8.9	D++	P	N2
	A	23PCDE11	PHARMACEUTICAL CHEMISTRY	3	25	75	100	17	56	73	7.3	A++	P	N2
	A	23PCDE13	ELECTROCHEMISTRY	3	25	75	100	12	51	63	6.3	A	P	A2
	B	23PCS11	CYBER SECURITY AND DIGITAL ETHICS	2	25		100	24		96	9.6	O+	P	N2
	B	23PSS11	TECHNICAL WRITING	2	25		100	20		80	8.0	D+	P	N2
II	A	23PCC21	ORGANIC REACTION MECHANISM-II	4	25	75	100	17	34	51	5.1	B	P	N2
	A	23PCC22	PHYSICAL CHEMISTRY-I	4	25	75	100	18	43	61	6.1	A	P	N2
	A	23PCC2L	INORGANIC CHEMISTRY PRACTICAL	4	25	75	100	23	50	73	7.3	A++	P	A2
	A	23PCDE21	MOLECULAR SPECTROSCOPY	3	25	75	100	13	42	55	5.5	B+	P	A2
	A	23PYEG21	BIOENTREPRENEURSHIP	3	25	75	100	23	44	67	6.7	A+	P	A2
	B	23PCSE2L	COMPUTATIONAL CHEMISTRY	2	25	75	100	25	70	95	9.5	O+	P	A2
	B	23PSS21	COMMUNICATION SKILLS	2	25		100	20		80	8.0	D+	P	A2
III	A	23PCC31	PERICYCLIC AND PHOTOCHEMISTRY	4	25	75	100	15	37	52	5.2	B	P	N2
	A	23PCC32	COORDINATION CHEMISTRY- I	4	25	75	100	16	42	58	5.8	B+	P	N2
	A	23PCC3L	PHYSICAL CHEMISTRY PRACTICAL	4	25	75	100	19	61	80	8.0	D+	P	N2
	A	23PCCI31	INDUSTRY MODULES FOR CHEMIST	3	25	75	100	17	48	65	6.5	A+	P	N2
	A	23PCDE31	PHARMACOGNOSY AND PHYTOCHEMISTRY	3	25	75	100	16	38	54	5.4	B	P	N2
	B	23PCIN31	INTERNSHIP	2	0	100	100	0	89	89	8.9	D++	P	N2
	B	23PCSE31	RESEARCH METHODOLOGY	2	100		100	74		74	7.4	A++	P	N2
	B	23PCSS31	LABORATORY SKILLS	2	25		100	24		96	9.6	O+	P	N2
<< END OF STATEMENT >>														

SIGNATURE OF THE CANDIDATE	PART	TOTAL MARKS	PERCENTAGE	CGPA	CREDITS	GRADE	CLASS	CREDITS	
								Earned	Required
M.S. GOWSIKA	A	975/1500	65.00	6.52	54				
	B	610/700	87.14	8.71	14				
	C			-	-				



*Dr. D. Rajamani*  
Dr. D. Rajamani  
CONTROLLER OF EXAMINATIONS



*R. Sudha Periahal*  
Dr. R. Sudha Periahal  
PRINCIPAL



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்

MANONMANIAM SUNDARANAR UNIVERSITY

(A State University under the Act of Government of Tamil Nadu)

TIRUNELVELI - 627012, TAMIL NADU, INDIA

CHOICE BASED CREDIT SYSTEM

GRADE STATEMENT



PROGRAMME: B.Sc. CHEMISTRY

S. No. : SUG 61174635

NAME OF THE CANDIDATE	GOWSIKA M S			REGISTER NUMBER	20201321504205
DATE OF BIRTH	27/07/2003	GENDER	FEMALE	MEDIUM	ENGLISH
DATE OF PUBLICATION	14/07/2023				
SEMESTER	VI	EXAM. CENTRE CODE	132	MONTH & YEAR OF EXAMINATION	APRIL - 2023
COLLEGE	VYASA ARTS & SCIENCE WOMEN'S COLLEGE, SUBRAMANIYAPURAM				

SEM	PART	COURSE CODE	COURSE TITLE	C	G	R	MONTH & YEAR
1	1	A1TL11	Pothu Tamil Paper I	4	A+	P	N-20
1	2	A2EN11	Communicative English - I	4	A	P	N-20
1	3	AMCH11	Physical Chemistry - I	4	A+	P	N-20
1	3	AMCHP1	Practical - Volumetric Analysis - I	2	O	P	N-20
1	3	AAMA11	Algebra and Differential Equations	4	O	P	N-20
1	3	APPS11	Professional English for Physical Sciences - I	4	A+	P	N-20
1	4	AEVS11	Environmental Studies	2	A	P	N-20
2	1	A1TL21	Pothu Tamil Paper - II	4	A	P	A-21
2	2	A2EN21	Communicative English - II	4	A+	P	A-21
2	3	APPS21	Professional English for Physical Sciences - II	4	A	P	A-21
2	3	AMCH21	Inorganic Chemistry - I	4	A+	P	A-21
2	3	AMCHP2	Practical - Inorganic Quantitative (volumetric) Analysis - II	2	O	P	A-21
2	3	AAMA21	Vector Calculus and Fourier Series	4	O	P	A-21
2	4	AVBE21	Value Based Education	2	A+	P	A-21
3	1	A1TL31	Pothu Tamil Paper - III	4	A	P	N-21
3	2	A2EN31	General English	4	A+	P	N-21
3	3	AMCH31	Organic Chemistry - I	4	A	P	N-21
3	3	AMCHP3	Practical - Inorganic Qualitative Analysis	2	O	P	N-21
3	3	AAPH11	Allied Physics Paper - I	4	A	P	N-21
3	3	AAPHP1	Practical - Allied Physics - I	2	O	P	N-21
3	3	ASCH32	Food Chemistry	4	O	P	N-21
3	4	ANEN31	English for Employability	2	A	P	N-21
3	4	AYOG31	Yoga	2	O	P	N-21
4	1	A1TL41	Pothu Tamil Paper - IV	4	B+	P	A-22
4	2	A2EN41	General English - II	4	B+	P	A-22
4	3	AMCH41	Organic Chemistry - II	4	C	P	A-22
4	3	AMCHP4	Practical - Organic Preparation & Physical Constant Determination	2	O	P	A-22
4	3	AAPH21	Allied Physics Paper - II	4	C	P	N-22
4	3	AAPHP2	Practical - Allied Physics - II	2	O	P	A-22
4	3	ASCH41	Chemistry in medicine	4	O	P	A-22
4	4	ANEN41	Business English	2	A	P	A-22
4	4	ACDE41	Computer for Digital Era	2	A	P	A-22
4	5	A5EA41	Extension Activities	1	O	P	A-22
5	3	AMCH51	Inorganic Chemistry - II	4	B	P	N-22
5	3	AMCH52	Physical Chemistry - II	4	C	P	N-22
5	3	AMCH53	Organic Chemistry - III	4	B	P	N-22
5	3	AMCHP5	Organic Analysis	2	O	P	N-22
5	3	AMCHP6	Gravimetric Estimation & Inorganic Preparation	2	A+	P	N-22
5	3	AECH51	Polymer Chemistry	4	B	P	N-22
5	4	ACSB51	Personality Development	2	B+	P	N-22
6	3	AMCH61	Inorganic Chemistry - III	4	B	P	A-23
6	3	AMCH62	Physical Chemistry - III	4	B+	P	A-23
6	3	AMCH63	Organic Chemistry - IV	4	A	P	A-23
6	3	AMCH6P	Major Project	7	O	P	A-23
6	3	AMCHP7	Practical - Physical Chemistry Experiments	2	O	P	A-23
6	3	AECH62	Nano Chemistry	4	B+	P	A-23
6	4	NMER61	Naan Mudhalvan - Employability Readiness	--	--	P	A-23

- END OF THE STATEMENT -

	Part - I	Part - II	Part - III	Part - IV	Part - V	Total Credits
Credits Earned	16	16	105	14	1	152
CGPA	8.00	8.25	8.15	8.29	10	Minimum Credits
CLASS	FIRST	FIRST	FIRST	FIRST	PASS	152

SIGNATURE OF THE CANDIDATE

*G. Annadurai*  
(Dr. G. Annadurai)  
CONTROLLER OF EXAMINATIONS (i/c)

பு.சா

R.Dis. 2009/2013

GCP-374-1-19,34,200 Cps.-19-06-2012 [Acer-1]

Dated.....20

BC



மாவட்டக் குறியீடு எண் : 18  
District Code :

வட்டக் குறியீடு எண் : 06  
Taluk Code :

கிராமக் குறியீடு எண் : 022  
Village Code :

12027441

வகுப்புச் சான்றிதழ்

COMMUNITY CERTIFICATE

திருமணி

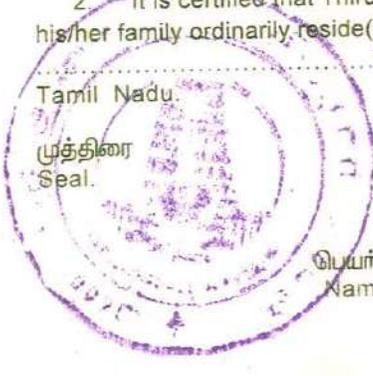
சிவகிரி

மா.வட்டம்..... வட்டம்.....  
கிராமம்/நகரம்..... திரு/திருமதி/செல்வன்/செல்வி  
குடும்பம்/குணவா பெயர்.....  
சான்றிதழ் எண் : 12027441  
பிறப்புத் திகதி.....  
19-7-1994 வரிசை எண்.....  
பிறப்புப் பிள்ளைச் சான்றிதழ் எண்.....  
சான்றிக்கப்படுகிறது.

This is to certify that Son/Daughter of  
Thiru/Tmt./Selvan/Selvi.....  
Village/Town..... Taluk.....  
District of the State of Tamil Nadu belongs to  
Community, which is recognised as a  
Backward Class as per Government Order (Ms.) No. 28, Backward Classes  
and Most Backward Classes Welfare dated 19th July 1994  
vide Serial No.....

2. திரு/திருமதி/செல்வன்/செல்வி.....  
என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில்.....  
மாவட்டத்தில்..... வட்டத்தில்.....  
கிராமத்தில்..... நகரத்தில் வசித்து வருகிறார்கள். எனச் சான்றிக்கப்படுகிறது.

2. It is certified that Thiru/Tmt./Selvan/Selvi..... and  
his/her family ordinarily reside(s) at ..... Village/Town  
..... Taluk ..... District of



கையொப்பம் :  
Signature :  
நாள் :  
Date :  
பெயர் (தனி எழுத்துக்களில்) :  
Name (in Capital Letters) :  
பதவி :  
Designation :  
சி. ஆனந்த்  
மண்டல துணை வட்டாட்சித்  
சிவகிரி.

आयकर विभाग  
INCOME TAX DEPARTMENT

भारत सरकार  
GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड  
Permanent Account Number Card  
DTZPG2432R



नाम / Name  
GOWSIKA

पिता का नाम / Father's Name  
MARIAPPAN

जन्म की तारीख / Date of Birth  
27/07/2003

*M. Gausi*  
हस्ताक्षर / Signature 1813649

