



ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

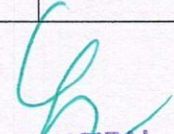
Permanently Affiliated to Thiruvalluvar University
Recognized by UGC under sections 2(f) and 12(B) of the UGC Act 1956
Accredited with "B" Grade by NAAC
Approved by the Government of Tamil Nadu
Phone:04174-235266 Email: principalwcc@gmail.com
www.islamiahwomensartsandsciencecollege.com

Project Details 2022 - 2023

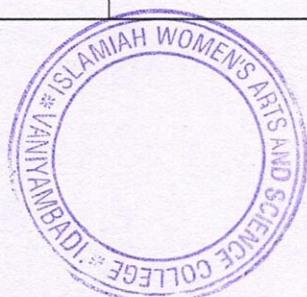
Program Name: M.Sc Biochemistry - Program Code: P12

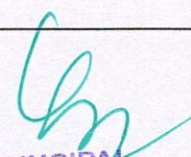
S.NO	List of Students	Project Title	Place of Work	Duration
1	Arfa Naz.K	A Case Study on Diabetic Foot Infection	Siraj surgical Hospital, Thirupattur	1.2.2023 to 12.502023 One Semester
2	Gayathri.V	Kalanchioe pinnata and Raphanus raphanustrum formulation mediated silver nanoparticles and its antibacterial activity against Urinary tract infection pathogens	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
3	Habibunnissa.S	Illicium verum flower mediated synthesis of silver nanoparticles and its anti-inflammatory and antioxidant activity	Saveetha Dental College, Chennai	1.2.2023 to 12.502023 One Semester
4	Jayapratha.J	Flower mediated synthesis of iron oxide nanoparticles using Lecaus aspera and it's Anticoagulant and membrane stabilization assay	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
5	Khateeb Tashifa Mehak	Mentha piperita stem mediated synthesis of copper nanoparticles and its antimicrobial activity against oral pathogens	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester




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6	Limra Umema.R	Carica papaya peel mediated synthesis of zinc oxide nanoparticles and its anticoagulant and thrombolytic activity	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
7	Nafiya Nousheen.A	Biosynthesis of gold nanoparticles using bacillus sp	Empirical Genomics in science we trust, Chennai	1.2.2023 to 12.502023 One Semester
8	Naveena.M	Controlling of wound pathogens using Ocimum Basilicum and Clitoria ternatae formulation and its Titanium oxide nanoparticles	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
9	Perarasi.A	Development of plant growth using banana peel mediated magnesium oxide nanoparticles with banana fruit extract	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
10	Saleha Abdul Aleem	Antidiabetic and free radical scavenging activity of Elettaria cardamomum incorporated chitosan nanocomposite	Saveetha Dental college, Chennai	1.2.2023 to 12.502023 One Semester
11	Sima.I	Antimicrobial activity of Hemidesmus indicus based iron oxide nanoparticles against gastro intestinal pathogens	Saveetha dental college, Chennai	1.2.2023 to 12.502023 One Semester
12	Swetha.S	Case study of hyperthyroidism and hypothyroidism in adult and old age people	Gokulakshmi clinic, Thirupattur	1.2.2023 to 12.502023 One Semester
13	Vinitha.S	Anticariogenic and anti-inflammatory activity of Acranthus aspera and peper nigrum formulation and its mediated silver nanoparticles	Saveetha dental college, Chennai	1.2.2023 to 12.502023 One Semester




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THIRUVALLUVAR UNIVERSITY
MASTER OF SCIENCE
(With effect from 2020– 2021)

M.Sc. (BIO CHEMISTRY)

COURSE OUTCOMES:

1. Be able to design and Contact Scientific experiments and analyzing the resulting data.
2. Able to work as a member of team.
3. Be knowledge in classical laboratory techniques and be able to use modern instrumentation.
4. Knowledgable of ethical practicals in science.
5. Be able to access search and use the chemical literature.
Target suills for lead scientific anticles & critical understanding of the contacts. Spouen & written presentation of scientific tapics & research results.

PROGRAMME SPECIFIC OUTCOME

1. Acquire knowledge and skills to undertake a career in research in an academic setup.
2. Apply the knowledge of experimental approaches to save problems of a chemical nature & ability to entered that knowledge to the solution.
3. Drug development and synthesize the knowledge & apply the same for multitude of laboratory applications.
4. Understand and apply the concepts of life Sources, empower the technical knowledge know & practical hands-on braining in the field.
5. Its academic, research, industrial & pharmaceutical applications.

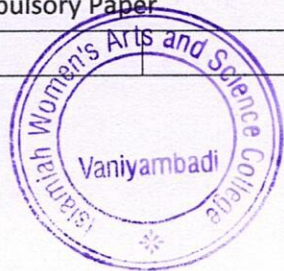
PROGRAMME OUTCOME

1. The students achieved for best computational performance in a specific context.
2. They cultivate the highest level of learning and technological key outcomes.
3. We were choose social welfare oriented skill based subject and its applications in biology, helps to the students & social welfare.
4. We were organizing many extension activities live internship programme, industrial visit, hands on training workshop, project oriented instrumentation programmes. It exposes the students for job opportunity and individual talents.
5. These competence of a course possess upon achieved for course specific goals



The Course of Study and the Scheme of Examination

Sl. No.	Study Components		ins. hrs / week	Credit	Title of the Paper	Maximum Marks		
	Course Title					CIA	Uni. Exam	Total
SEMESTER I								
1.	Core Theory	Paper-1	5	4	Advances in cell biology	25	75	100
2.	Core Theory	Paper-2	5	4	Chemistry of Biomolecules	25	75	100
3.	Core Theory	Paper-3	5	3	Human physiology	25	75	100
	Core Practical	Paper-1	4	-	Isolation and characterization techniques and quantitative analysis.	-	-	-
	Core Practical	Paper-2	5	-	Molecular biology and microbial techniques	-	-	-
Internal Elective for same major students								
4.	Core Elective	Paper-1	3	3	(to choose one out of 3) A. Pharmaceutical Biochemistry B. Plant Biochemistry C. Cancer Biology	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
5.	Open Elective	Paper-1	3	3	(to choose one out of 3) A. Bioinstrumentation B. Developmental Biology C. Nanoscience and Technology	25	75	100
			30	17		125	375	500
SEMESTER II								
6.	Core Theory	Paper-4	4	4	Analytical Biochemistry	25	75	100
7.	Core Theory	Paper-5	4	4	Molecular Biology	25	75	100
8.	Core Theory	Paper-6	4	4	Metabolic Regulation and Disorders	25	75	100
9.	Core Practical	Paper-1	4	3	Isolation ,Characterization Techniques and Quantitative Analysis,	25	75	100
10.	Core Practical	Paper-2	4	3	Molecular Biology and Microbiology Practical	25	75	100
Internal Elective For Same Major Students								
11.	Core Elective	Paper-2	4	3	(to choose one out of 3) A. Microbiology B. Bioinformatics C. Biochemical and Environmental Toxicology	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
12.	Open Elective	Paper-2	4	3	(to choose one out of 3) A. Herbal Medicine B. Herbal Drug Development C. Organic Farming	25	75	100
13.	*Field Study		-	2	Summer internship/PG Service learning/Experiential learning/industrial visit	100	-	100
14.	Compulsory Paper		2	2	Human Rights	25	75	100
			30	28		300	600	900



SEMESTER III						CIA	Uni. Exam	Total
15.	Core Theory	Paper-7	5	4	Molecular endocrinology	25	75	100
16.	Core Theory	Paper-8	5	4	Enzyme technology	25	75	100
17.	Core Theory	Paper-9	4	4	Biotechnology	25	75	100
	Core Practical	Paper-3	5	--	Enzymology and clinical diagnostics	-	-	-
	Core Practical	Paper-4	5	--	Haematological methods and urine analysis	-	-	-
Internal Elective for same major students								
18.	Core Elective	Paper-3	3	3	(to choose one out of 3) A. Phytomedicine B. Genetic engineering C. Diagnostic biochemistry	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
19.	Open Elective	Paper-3	3	3	(to choose one out of 3) A. Mushroom cultivation B. Methods in food preservation C. Human physiology and nutrition.	25	75	100
20.	**MOOC Courses		-	-	NPTEL/Spoken tutorial /MSME course	25	75	100
			30	20		150	450	600
SEMESTER IV						CIA	Uni. Exam	Total
21.	Core Theory	Paper-10	5	4	Research Methodology	25	75	100
22.	Core Theory	Paper-11	4	4	Advanced clinical biochemistry	25	75	100
23.	Core Practical	Paper-3	5	3	Enzymology and clinical diagnostics	25	75	100
24.	Core Practical	Paper-4	5	3	Haematological methods and urine analysis	25	75	100
25.	Core	Project	5	5	Project with <i>viva voce</i> (Compulsory)	100	(75 Project +25 viva)	100
Internal Elective for same major students								
26.	Core Elective	Paper-4	3	3	(to choose one out of 3) A. Bioinformatics B. Nanobiotechnology C. Stem cell technology	25	75	100
External Elective for other major students (Inter/multi disciplinary papers)								
27.	Open Elective	Paper-4	3	3	(to choose one out of 3) A. Evolutionary biology B. Bioremediation C. Life science – Disease and prevention.	25	75	100
			30	25		150	450	700
			120	90				2700



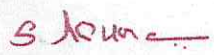
CERTIFICATE

This is to certify that the project work entitled, "CASE STUDY ON DIABETIC FOOT INFECTION" submitted by Ms.K.ARFANAZ (Reg. No. 31221P12001) a student of Thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma/Associateship etc., of similar title of any candidate of any University or Institution.


Countersigned principal
Principal
Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.


Signature of the Guide

Dr. M.Suganya.,M.Sc.,M.phil.,DMLT.,Ph.D.,


Head of the department
S. ARUNA, M.Sc., M.Phil.,
HOD of Bio-Chemistry
ISLAMIAH WOMEN'S COLLEGE
VANIYAMBADI-635 752.

Date: 12/5/23

1. S. Asha 12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET.,
Assistant Professor,
Department of Biochemistry,
D.K.M. College for Women (Autonomous),
Sainathapuram, Vellore - 1.

2. 
22/5/23

Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Manjhar Kesari Arts College
Vaniyambadi-635 752.

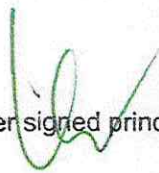



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CERTIFICATE

This is to certify that the project work entitled, "*Kalanchoe pinnata* and *Raphanus raphanistrum* formulation mediated silver nanoparticles and its antibacterial activity against Urinary tract infection pathogens" submitted by Ms. V.GAYATHRI (Reg. No. 31221P12002) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal



Principal

Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.

S. Aruna

Signature of the Guide

(Ms.Aruna,M.Sc.,M.Phil.,SET.,(HOD).)

1. J. Asha 12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET.,
Assistant Professor,
Department of Biochemistry,
D.K.M. College for Women (Autonomous),
Sainathapuram, Vellore - 1.

S. Aruna

Head of the department

S. ARUNA, M.Sc., M.Phil.,
HOD of Bio-Chemistry
ISLAMIAH WOMEN'S COLLEGE
VANIYAMBADI-635 752.

Date: 12/5/23

2. Charumathy

Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Marudhar Kesari Jain College for Women
Vaniyambadi-635 751, Tirupattur Dist.



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CERTIFICATE

This is to certify that the project work entitled, "*Illicium Verum* flower mediated synthesis of silver nanoparticles and its anti-inflammatory and antioxidant activity" submitted by Ms. HABIBUNNISSA.S (Reg. No. 31221P12003) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal

Principal

Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.

S Aruna
Signature of the Guide

Ms.Aruna,M.Sc.,M.Phil.,SET.,(HOD)

S Aruna
Head of the department
ARUNA, M.Sc., M.Phil.,
Bio-Chemistry
ISLAMIAH WOMEN'S COLLEGE
VANIYAMBADI-635752.

Date: 12.05.23

1. S. Asha 12/5/23

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2. M. Charumathy 12/5/23

Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
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VANIYAMBADI

CERTIFICATE

This is to certify that the project work entitled, "LEAF MEDIA TED SYNTHESIS OF IRON OXIDE NANOPARTICLES USING *LEUCAS ASPERA* AND ANTICOAGULANT AND MEMBRANE STABILISATION ASSAY" submitted by MS. J. JAYAPRATHA (Reg. No. 31221P12004) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal

Signature of the Guide

Principal
Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.

Ms. Aruna, M.Sc., M.Phil., SET., (HOD)

Head of the department

1. J. Asha 12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D.,
Assistant Professor,
Department of Biochemistry,
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S. ARUNA, M.Sc., M.Phil.,
Date: 12.5.23
of Bio-Chemistry
ISLAMIAH WOMEN'S COLLEGE
VANIYAMBADI-635 752.

2. J. Jayapatha 12/5/23

PRINCIPAL
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI-635 751, Tirunelveli Dist.



CERTIFICATE

This is to certify that the project work entitled, "*Mentha piperita* stem mediated synthesis of copper nanoparticles and its antimicrobial activity against oral pathogens" submitted by Ms. KHATEEB TASHIFA MEHAK (Reg. No. 31221P12005) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal

Principal
Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.

Head of the department

Date: 12/5/23



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Signature of the Guide

Mrs.D.Sudha,M.Sc.,M.Phil.,DMLT.,B.Ed.,

1. S. Asha 12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET.,
Assistant Professor,
Department of Biochemistry,
D.K.M. College for Women (Autonomous),
Sainathapuram, Vellore - 1.

2. Charumathy
12/5/23

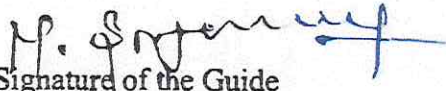
Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Marudhar Kesari Jothi College for Women
Vaniyambadi-635 751, Tirupattur Dist.

CERTIFICATE


This is to certify that the project work entitled, "*Carica papaya* peel mediated synthesis of Zinc oxide nanoparticles and its Anticoagulant and Thrombolytic activity" submitted by Ms. LIMRA UMEMA.R (Reg. No. 31221P12006) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

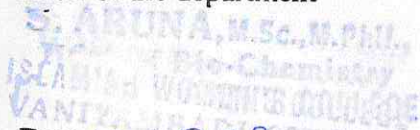

Counter signed principal
Principal

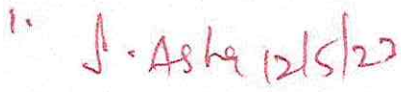
Islamiyah Women's Arts and Science College
Vaniyambadi - 635 752.


Signature of the Guide

Dr.M.Suganya.,M.Sc.,M.Phil.,DMLT.,Ph.D.,


Head of the department


S. ARUNA, M.Sc., M.Phil.,
Department of Bio-Chemistry
ISLAMIYAH WOMEN'S COLLEGE
VANIYAMBADI - 635 752.
Date: 12.05.23


Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET.,
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Department of Biochemistry,
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2. 
12/5/23


Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
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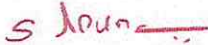
This is to certify that the project work entitled, "BIOSYNTHESIS OF GOLD NANOPARTICLES USING *BACILLUSSP*" submitted by Mrs.NAFIYA NOUSHEEN.A (Reg. No. 31221P12007) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.


Counter signed principal

Principal
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Vaniyambadi - 635 752.


Signature of the Guide

Mrs.D.Sudha,M.Sc.,M.Phil.,DMLT.,B.Ed.,



Head of the department

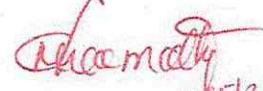
Date: 12.05.23

1. 
12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET,
Assistant Professor,
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2. 
12/5/23

Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Marudhar Kesari Jain College for Women
Vaniyambadi-635 751, Tirupattur Dist.


CERTIFICATE

This is to certify that the project work entitled, "Controlling wound pathogen using *ocimum basilium* and *clitoria ternatea* Formulation and its titanium oxide nanoparticles" submitted by MS. M. NAVEENA (Reg. No. 31221P12008) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.


Counter signed principal


Signature of the Guide

Principal
Islamiah Women's Arts and Science College
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Head of the department

Ms.Aruna,M.Sc.,M.Phil.,SET.,(HOD)


1. J. Asha 12/5/23

Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET.,
Assistant Professor,
Department of Biochemistry,
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Sainathapuram, Vellore - 1.

Date: 12.05.23
VANIYAMBADI-635752.




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2. 
Dr. M. CHARUMATHY, M.Sc., M.Phil., Ph.D.,
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Marudhar Kesari Jain College for Women
Vaniyambadi-635 751, Tirupattur Dist.

CERTIFICATE

This is to certify that the project work entitled, "Development of plant growth using *Musa Sapientum* and it's mediated Magnesium oxide nanoparticles" submitted by Ms. .A. PERARASI (Reg. No. 31221P12009) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal

Principal
Islamiah Women's Arts and Science College
Vaniyambadi - 635 752.

100507/3
10/5/23

Signature of the Guide

(Mrs.D.Sudha,M.Sc.,M.Phil.,DMLT.,B.Ed.,)

S. Arun

Head of the department

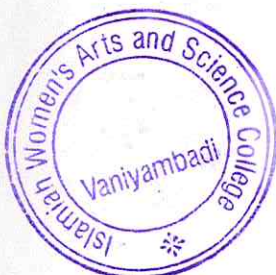
S. ARUNA, M.Sc., M.Phil.,
Head of the Department of Bio-Chemistry
ISLAMIAH WOMEN'S COLLEGE
VANIYAMBADI-635 752.

Date: 12.05.23

1. J. Asha 12/5/23
Dr. S. ASHA, M.Sc., M.Phil., Ph.D., SET
Assistant Professor,
Department of Biochemistry,
D.K.M. College for Women (Autonomous),
Sainathapuram, Vellore - 1.

2. Chemette
12/5/23

Dr. M. Chinnappa
Assistant Professor & Research Supervisor
PG & Research Department of Biochemistry
Marudhar Keesari Jain College for Women
Vaniyambadi-635 751, Tirupathur Dist.




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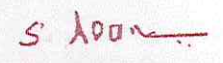
This is to certify that the project work entitled, " ANTIDIABETIC AND FREE RADICAL SCAVENGING ACTIVITY OF *ELETTARIA CARDAMOMUM* INCORPORATED CHITOSAN NANOCOMPOSITE" submitted by Ms. SALEHA ABDUL ALEEM (Reg. No. 31221P12010) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.


Counter signed principal



Signature of the Guide

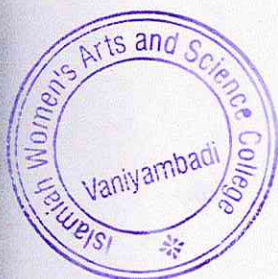
Principal
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CERTIFICATE

This is to certify that the project work entitled, "Antimicrobial activity of *Alpinia officinarum* based iron oxide nanoparticles against gastrointestinal pathogens" submitted by Ms. SIMA.I (Reg. No. 31221P12012) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.

Counter signed principal

Signature of the Guide

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Principal

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Date: 12.5.22

CERTIFICATE

This is to certify that the project work entitled, "Case Study Of Hyperthyroidism and Hypothyroidism in adult and old age people" submitted by Ms. SWETHA.S (Reg. No. 31221P12013) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.


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Signature of the Guide

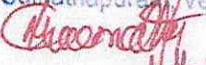
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CERTIFICATE

This is to certify that the project work entitled, "Anticariogenic and anti-inflammatory activity of *Achyranthes aspera* and *piper longum* formulation and its mediated silver nanoparticles" submitted by Mrs. S.VINITHA (Reg. No. 31221P12014) a student of thiruvalluvar University, Tamil Nadu, India for the award of Degree of Master of science in Biochemistry is a bonafide record of the research work done by her under my guidance and supervision and it has not been the basis for any previously awarded degree/ diploma / Associateship etc., of similar title of any candidate of any University or Institution.


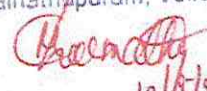

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