

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: principaliwc@gmail.com www.islamiahwomensartsandsciencecollege.com

Project Details 2022 - 2023

Program Name: B.Sc Chemistry - Program Code: U17

S.No	List Of Students	Project Title	Place Of Work	Duration
1	Aisha Siddeeqa Ml	Green Synthesis And Characterization Of Iron Chloride Nanoparticles From Ocimum Sanctum Leaves Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
2	Aleena Nousheen A	Synthesis And Analysis Of Bioplastics From Waste Peels Of Potato	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
3	Arshiya Batool M	Zero Liquids Discharge Common Effluent Treatment Plant Foe Tanneries	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023 One Semester
4	Ayesha Batool.K	Tannery Effluent Treatment By Implementation Of Zld	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023 One Semester
5	Ayesha Siddiqua N	Green Synthesis And Characterization Of Iron Chloride Nanoparticles From Acalypha Indica Leaves Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
6	Bhuvaneshwari M	Synthesis And Analysis Of Bioplastics From Cassava Starch	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
7	Dеера A	Synthesis And Analysis Of Bioplastics From Waste Peels Of Banana	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
8	Dhanusha P	Green Synthesis And Characterization Of Iron Chloride From Piperacae Leaves Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester



9	Gopika D	En Synthesis Of	Islamiah	1.2.2023 to
		(Co(Iii)(Phenan)Cl(1 Amino (Phenyl) Methylene)	Women's Arts	11.5.2023
		Thiosemicarbazide	And Science	On a Comment
10	Harivaishnavi T	Zero Liquids Discharge	College Vanitec,	One Semester
10	ridii vaisima vi 1	Common Effluent Treatment	Vaniyambadi.	1.2.2023 to 11.5.2023
		Plant Foe Tanneries	v amyambadi.	11.3.2023
				One Semester
11	Hariyuktha R	En Synthesis And	Islamiah	1.2.2023 to
		Characterization Of Azo Dye	Women's Arts	11.5.2023
		Para Red Derivatives	And Science	
			College	One Semester
12	Hemavathi S	Zero Liquids Discharge	Vanitec,	1.2.2023 to
		Common Effluent Treatment Plant Foe Tanneries	Vaniyambadi.	11.5.2023
		Tianti de Taimeries		One Semester
13	Janani S	En Synthesis Of Cu(Ii) 1-	Islamiah	1.2.2023 to
		(Amino(Phenyl)	Women's Arts	11.5.2023
		Methylene)Thiosemicarbazide	And Science	
			College	One Semester
14	Khateeb Farha	Zero Liquids Discharge	Vanitec,	1.2.2023 to
	Aiman	Common Effluent Treatment	Vaniyambadi.	11.5.2023
		Plant Foe Tanneries		resupplies before the second
				One Semester
15	Lakshmi S	Corrosion Of Mild Steel Using	Islamiah	1.2.2023 to
	*	Organic Inhibitor (Bay Leaf -	Women's Arts	11.5.2023
		1 Day)	And Science	
			College	One Semester
16	Madhumitha B	Corrosion Of Mild Steel Using	Islamiah	1.2.2023 to
		Organic Inhibitor (Anise Star	Womens Arts	11.5.2023
	7	Seed - 1 Hour)	And Science	
			College	One Semester
17	Mageswari M	Corrosion Of Mild Steel Using	Islamiah	1.2.2023 to
		Organic Inhibitor (Bay Leaf -	Women's Arts	11.5.2023
	1	1 Hour)	And Science	
			College	One Semester
18	Manjula G	Corrosion Of Mild Steel Using	Islamiah	1.2.2023 to
	_	Organic Inhibitor (Anise Star	Women's Arts	11.5.2023
	×	Seed - 1 Day)	And Science	
10			College	One Semester
19	Mehar Jabeen E	Zero Liquids Discharge	Vanitec,	1.2.2023 to
		Common Effluent Treatment Plant Foe Tanneries	Vaniyambadi.	11.5.2023
		Tant rue Taimeries		One Semester
20	Nafiya Afreen T	Zero Liquids Discharge	Vanitec,	1.2.2023 to
		Common Effluent Treatment	Vaniyambadi.	11.5.2023
		Plant Foe Tanneries	22.1	- 0
	-		/	One Semester



21	Narmada M	Synthesis Of Soap Using Tomato As Organic Compound	Islamiah Women's Arts And Science	1.2.2023 to 11.5.2023
			College	One Semester
22	Nazma T S	Zero Liquids Discharge Common Effluent Treatment Plant Foe Tanneries	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023 One Semester
23	Nisha Nandhini K	Zero Liquids Discharge Common Effluent Treatment Plant Foe Tanneries	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023
24	Nivetha S	Synthesis And Characterization Of Bioplastic With Corn Starch	Islamiah Women's Arts And Science College	One Semester 1.2.2023 to 11.5.2023 One Semester
25	Nivetha U	Synthesis And Characterization Of Polyacid With Moringa Resin Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
26	Poovarasi M	Synthesis And Characterization Of Polyacid With Moringa Resin Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
27	Priyadharshini C	Synthesis And Characterization Of Silver Nano Particles With Lemon Leaf Extract	Islamiah Women's Arts And Science	1.2.2023 to 11.5.2023
28	Rimsha Mariyam G	Synthesis And Characterization Of Silver Nano Particles With Acacia Nicotica Pods Extract	Islamiah Women's Arts And Science	One Semester 1.2.2023 to 11.5.2023
29	Ruhi H	Green Synthesis Of Silver Nanoparticles From Moringa Olefera	Islamiah Women's Arts And Science College	One Semester 1.2.2023 to 11.5.2023 One Semester
30	Ruqsar Fathima V M	Green Synthesis Of Silver Nanoparticles From Murraya Koenigii (Curry Leaves) Plant Extract	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
31	Sangeetha P	Synthesis And Analysis Of Bioplastics From Agar Agar Powder	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
32	Suji V	Zero Liquids Discharge Common Effluent Treatment Plant Foe Tanneries	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023



33	Thamizharasi A	Apple Browning Prevention In Different Solution	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
34	Vaishnavi. D S	Butterfly Pea Flower As Natural Indicators	Islamiah Womens Arts And Science College	1.2.2023 to 11.5.2023 One Semester
35	Vijayalakshmi A	Zero Liquids Discharge Common Effluent Treatment Plant Foe Tanneries	Vanitec, Vaniyambadi.	1.2.2023 to 11.5.2023 One Semester
36	Vijayalakshmi V	Green Synthesis Of Metallic Nano Particles From The Leaf Extract Of Psidium Guajava	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
37	Vinodhini S	Analysis Of Honey	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
38	Vinothini S	Presence Of Insecticides And Pesticides In Fruits And Vegetables	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
39	Yasmeen G M	Green Synthesis And Formulation In Hibiscus Rosa Sinensis Leves.	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester
40	Yunika D	Synthesis And Characterisation Of Bioplastic With Wheat Starch	Islamiah Women's Arts And Science College	1.2.2023 to 11.5.2023 One Semester



THIRUVALLUVAR UNIVERSITY

BACHELOR OF SCIENCE B.Sc. CHEMISTRY DEGREE COURSE

(With effect from 2020 - 2021)

The Course of Study and the Scheme of Examinations

Vaniyambadi

		Study Components		Ins.					
S. No.	Part	Course Title		Hrs / week	Credit	Title of the Paper	Maximum Marks		
		SEMESTI	ER I				CIA	Uni. Exam	Total
1.	1	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	11	English (CE)	Paper-1	6	4	Communicative English I	25	75	100
3.	111	Core Theory	Paper-1	6	4	General Chemistry - I	25	75	100
	III	Core Practical	Practical-1	3	0	Volumetric Analysis	0	0	0
4.	111	Allied -1	Paper-1	4	3	(Choose any 1 out of 5) 1. Physics I 2. Botany I 3. Zoology I 4. Biochemistry I 5. Mathematics I*	25	75	100
	111	Allied- 1	Practical-1	3	0		0	0	0
5.	111	PE	Paper 1	6	3	Professional English I	25	75	100
6. I\	IV	Environmental Studies		2	2	Environmental studies	25	75	100
75,423,6		Sem. Total		36	20		150	450	600
		SEMESTE	R II				CIA	Uni. Exam	Tota
7.	1	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	- 11	English (CE)	Paper-2	6	4	Communicative English II	25	75	100
9.	III	Core Theory	Paper-2	5	4	General Chemistry - II	25	75	100
10.	III	Core Practical	Practical-1	3	2	Volumetric Analysis	25	75	100
11.	III	Allied-1	Paper-2	4	3	(Choose any 1 out of 5) 1. Physics II 2. Botany II 3. Zoology II 4. Biochemistry II 5. Mathematics II*	25	75	100
12.	111	Allied Practical - 1	Practical-1	2	2		25	75	100
13.	III	PE	Paper 1	6	3	Professional English II	25	75	100
14.	IV	Value Education		2	2		25	75	100
15.	IV	Soft Skill		2	1		25	75	100
	-	Sem. Total		36	25	1///	225	675	900
	S Arts	Seili. I Otal		30	23		223	0/3	30

	Course	Title	/week			STATE BUILDING SER		
	SEMI	STER III				CIA	Uni. Exam	Tota
1	Language	Paper-3	6	4	Tamil / Other Languages	25	75	100
11	English	Paper-3	6	4	English	25	75	100
III	Core Theory	Paper-3	4	4	General Chemistry - III	25	75	100
111	Core Practical	Practical-2	3	0	Inorganic Qualitative Analysis & Preparations	0	0	0
111	ALLIED-2	Paper-3	4	3	Any one from 1. Physics -I 2. Botany -I 3. Zoology -I 4. Biochemistry - I 5. Mathematics - I*	25	75	100
Ш	Allied Practical	Practical-2	3	0	Allied practical-II	0	0	0
IV	Skill Based Subject	Paper-1	2	2	Water Treatment and Analysis	25	75	100
IV	Non-Major Elective	Paper-1	2	2	Medicinal Chemistry	25	75	100
			30	19		150	450	600
	SEMI	ESTER IV				CIA	Uni. Exam	Tota
1	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
II	English	Paper-4	6	4	English	25	75	100
III	Core Theory	Paper-4	4	4	General Chemistry - IV	25	75	100
111	Core Practical	Practical-2	3	3	Inorganic Qualitative Analysis & Preparations	25	75	100
III	Allied-2	Paper-4	4	3	Any one from 1. Physics -II 2. Botany -II 3. Zoology -II 4. Biochemistry - II 5. Mathematics - II*	25	75	100
Ш	Allied Practical	Practical-2	3	2	Allied practical-II	25	75	100
Aria Aria	Non-Major Elective	Paper-2 Paper-2	2 2	2 2	Office Fundamentals Chemistry in Every Day Life PRINCIPAL	25 25	75 75	100
	nce.		30	24	AND SCIENCE COLLE	200	600	800
		III English III Core Theory III Core Practical III ALLIED-2 III Allied Practical IV Skill Based Subject IV Non-Major Elective SEMI I Language II English III Core Theory III Core Practical III Allied-2 III Allied-2 III Allied-1 III III Allied-2 III English III Core Theory III Core Practical III Allied-1 III Allied-1 III Practical III NMSDC: Digital Skills for Employability	III English Paper-3 III Core Theory Paper-3 III Core Practical Practical-2 III ALLIED-2 Paper-3 III Allied Practical IV Skill Based Paper-1 Subject Paper-1 IV Non-Major Paper-1 Elective Paper-4 II English Paper-4 III Core Theory Paper-4 III Core Practical Practical-2 III Allied Practical Practical-2 III Allied-2 Paper-4 III Allied-2 Paper-4 III Allied-2 Paper-4 III Paper-4 III Allied Practical Practical-2 III Allied Practical Paper-4 III Paper-2 III Paper-2 III Paper-2 III Paper-2 III Paper-2 III Paper-2	III English Paper-3 6 III Core Theory Paper-3 4 III Core Practical Practical-2 3 III ALLIED-2 Paper-3 4 III Allied Practical-2 3 IV Skill Based Subject Paper-1 2 IV Non-Major Paper-1 2 Elective 30 SEMESTER IV I Language Paper-4 6 II English Paper-4 6 III Core Theory Paper-4 4 III Core Practical Practical-2 3 III Allied Practical Paper-4 4				III English Paper-3 6 4 English 25 75 III Core Theory Paper-3 4 4 General Chemistry - III 25 75 III Core Practical Practical-2 3 0 Inorganic Qualitative Analysis & Preparations 0 0 Any one from 1. Physics - I 2. Botany - I 25 75 Allied Practical-2 3 0 Allied practical-II 0 0 Practical Practical-2 3 0 Allied practical-II 0 0 Practical Paper-1 2 2 Water Treatment and Analysis 25 75 Non-Major Paper-1 2 2 Medicinal Chemistry 25 75 IV Non-Major Paper-1 2 2 Medicinal Chemistry 25 75 III English Paper-4 6 4 Tamil/Other Languages 25 75 III Core Theory Paper-4 4 4 General Chemistry - IV 25 75 III Core Practical Practical-2 3 3 Inorganic Qualitative Analysis & Preparations 25 75 Any one from 1. Physics - II 25 75 III Allied - 2 Paper-4 4 3 3 English 25 75 III Allied Practical Practical-2 3 2 Allied practical-II 25 75 III Allied Practical Practical-2 3 2 Allied practical-II 25 75 III Allied Practical Practical-2 3 2 Allied practical-II 25 75 III Practical Practical Practical-2 3 2 Allied practical-II 25 75 III Practical Practical Practical-2 3 2 Allied practical-II 25 75 III Practical Practical-2 3 2 Office Fundementals 25 75 III Practical Practical-2 3 2 Office Fundementals 25 75 III Practical Practical-2 2 2 Office Fundementals 25 75 III Practical Practical-2 2 2 Office Fundementals 25 75 III Practical Practical-2 2 2 Office Fundementals 25 75 III Practical Practical Paper-2 2 2 Office Fundementals 25 75 III Practical Practical Paper-2 2 2 Office Fundementals 25 75 III Practical Practical Paper-2 2 2 Office Fundementals 25 75 III Practical P

s.NO.	Part	Study Compone	ents	Ins. hrs /week	Credit	Title of the Paper	N	laximum Marl	cs	
		Course Title		/ WCCR						
		SEMESTE	RV				CIA	Uni. Exam	Total	
30.	III	Core Theory	Paper-5	6	5	Inorganic Chemistry - I	25	75	100	
	111	Core Practical	Practical-	3	0	Gravimetric Estimation	0	0	0	
31.	III	Core Theory	Paper-6	6	5	Organic Chemistry - I	25	75	100	
	Ш	Core Practical	Practical-	3	0	Organic qualitative Analysis and Preparations	0	0	0	
32.	111	Core Theory	Paper-7	6	4	Physical Chemistry - I	25	75	100	
33.	Ш	Internal Elective	Paper-1	3	3	Any one from A. Analytical chemistry - I B. Basis of computer programming in C and its applications in Chemistry c. Organic Synthesis	25	75	100	
34.	IV	Skill Based Subject	Paper-3	3	2	Applied Chemistry	25	75	100	
				30	19		150	450	600	
SEMESTER VI						CIA	Uni. Exam	Total		
35.	III	Core Theory	Paper-8	6	4	Inorganic Chemistry - II	25	75	100	
36.	Ш	Core Theory	Paper-9	6	4	Organic Chemistry - II	25	75	100	
37.	111	Core Theory	Paper- 10	6	4	Physical Chemistry - II	25	75	100	
38.	5 EX 2003	Compulsory Project		0	5	12/12/20/20/20/20/20/20/20/20/20/20/20/20/20	25	75	100	
39.	111	Core Practical-3								
			Practica I-3	0	2	Gravimetric Estimation	25	75	100	
40.	III	Core Practical-4	Practica I-4	0	2	Organic qualitative Analysis and Preparations	25	75	100	
41.	111	Core Practical-5	Practica I-5	3	3	Physical Chemistry Experiments	25	75	100	
42.	111	Internal Elective	Paper-2	3	3	Any one from A. Analytical Chemistry-II B. Textile Chemistry C. Nano Chemistry	25	75	100	
44.	III Arts a	Internal Elective	Paper-3	3	3	Any one from A. Pharmaceutical Chemistry ABIROLYMEN Chemistry Chemistry Chemistry ABIROLYMEN Chemistry				

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Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi
Tirupattur - 635 601.
Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled *GREEN SYNTHESIS AND* CHARACERISATION OF IRON CHLORIDE NANOPARTICLES FROM OCIMUM SANCTUM LEAVES EXTRACT is the bonafide record done by AISHA SIDDEEQA ML (REG. NO: 31220U17001) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[HITE VANALIHT. 2]

Signature of the HOI

Signature of the H.O.D

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS

Submitted for the Viva - Voce examination held on 11.05.2023 AND SCIENCE COLLEGE VANIYAMBADI.

FICURE.

Internal Examiner

[HPAYANA 1177. 2]

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE _____VANIYAMBADI.

Vaniyambadi

External Examiner

ASSISTANT PROFESSOR

PG & RESEARCH DEPARTMENT OF CHEMISTRY K.M.G. COLLEGE OF ARTS & SCIENCE

GUDIYATTAM - 635 803



Accredited by NAAC with 'B' grade
Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi
Tirupattur - 635 601.
Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND ANALYSIS OF BIOPLASTICS FROM WASTE PEELS OF POTATO is the bonafide record done by ALEENA NOUSHEEN A (REG. NO: 31220U17002) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

Signature of the H.O.D

FIRE YEL

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY

Submitted for the Viva – Voce examination held on 11. 05.2023 ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI

Titlinger.

Internal Examiner

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

Vaniyambadi

ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGED VANIYAMBADI.

Prof. B. BALAJI, M.Sc. M.Phil. NET
ASSISTANT PROFESSOR
G & RESEARCH DEPARTMENT OF CHEMISTRY
K.M.G. GOLLEGE OF ARTS & SCIENCE
GUDIYATTAM - 635 803

External Examiner



Accredited by NAAC with 'B' grade Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi Tirupattur - 635 601. Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by ARSHIYA BATOOL M (REG. NO: 31220U17003) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

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Signature of the Guide supervisor

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Firelyth.

Signature of the H.O.D

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LAD OF THE DEPARTMENT EPARTMENT OF CHEMISTRY Submitted for the Viva - Voce examination held on 11.05.2023 ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

VANIYAMBADI.

2 Things

Internal Examiner MITTEN VANAU UTT. B

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI

Prot. B. BALAJI, M.Sc M.Phil NET ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF CHEMISTRY K.M.G. COLLEGE OF ARTS & SCIENCE

External Examiner





Accredited by NAAC with 'B' grade
Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi
Tirupattur - 635 601.
Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled *TANNERY EFFLUENT TREATMENT BY IMPLEMENTATION OF ZLD* is the bonafide record done by **AYESHA BATOOL.K** (**REG. NO:** 31220U17004) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[HERAVADAU IHT. T.T.

Signature of the H.O.D

ister the

[HARAYADAU)HTT. E]

HEAD OF THE DEPARTMEN : DEPARTMENT OF CHEMISTRY

Submitted for the Viva – Voce examination held on 11.05.2023 ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI.

Vaniyambadi /

Internal Examiner

CHTRAVAN ALLETE E

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI. ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI

External Examiner

Prof. B. BALAJI, M.Sc. M.PHIL NET ASSISTANT PROFESSOR PG & RESEARCH DEPARTMENT OF CHEMISTRY K.M.G. COLLEGE OF ARTS & SCIENCE GUDIYATTAM - 635 803



Accredited by NAAC with 'B' grade Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi Tirupattur - 635 601. Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled GREEN SYNTHESIS AND CHARACERISATION OF IRON CHLORIDE NANOPARTICLES FROM ACALYPHA INDICA LEAVES EXTRACT is the bonafide record done by AYESHA SIDDIQUA N (REG. NO: 31220U17005) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry nglish under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

In 1946.

Signature of the Guide supervisor

CHEAVANA IMP. E.

Signature of the H.O.D

HTAVANAUIHT. 2

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS Submitted for the Viva - Voce examination held on 11, 05. 2023

AND SCIENCE COLLEGE VANIYAMBADI.

J. THILAMAYAATII)

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

External Examiner

PG & RESEARCH DEPARTMENT OF CHEMISTRY K.M.G. COLLEGE OF ARTS & SCIENCE GUDIYATTAM - 635 803



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Tirupattur - 635 601.
Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND ANALYSIS OF BIOPLASTICS FROM CASSAVA STARCH is the bonafide record done by BHUVANESHWARI M (REG. NO: 31220U17006) in partial fulfilment of the requirement for the award of the degree of the Science in Chemistry in English under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

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Signature of the Guide supervisor

[3.7741 GAGAWATH]

Signature of the H.O.D

etterette.

CHERVALAUITT E

HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY

Submitted for the Viva - Voce examination held on 11.05.2023 AND SCIENCE COLLEGE

VANIYAMBADI.

Internal Examiner

Vaniyambad

MEAD OF THE DEPARTMENT
DEPARTMENT OF CHEMISTRY
ISLAMIAH WOMEN'S ARTS
AND SCIENCE COLLEGE
VANIYAMBADI.

ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI. Prof. B. BALAJI, M.Sc. M.Phil. NET
ASSISTANT PROFESSOR
PG & RESEARCH DEPARTMENT OF CHEMISTRY
K.M.G. COLLEGE OF ARTS & SCIENCE
GUDIYATTAM - 635 803



Accredited by NAAC with 'B' grade Affiliated in Thiruvalluvar University, Newtown, Vaniyambadi Tirupattur - 635 601. Email ID: principaliwc@gmail.com

DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND ANALYSIS OF BIOPLASTICS FROM WASTE PEELS OF BANANA is the bonafide record done by DEEPA A (REG. NO: 31220U17007) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Lever Mer.

Signature of the Guide supervisor 138 MAILUANAVAINIT

Signature of the H.O.D

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HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY Submitted totathe Viva - Voce examination held on 11 05/2028 ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

Internal Examiner

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled GREEN SYNTHESIS AND CHARACERISATION OF IRON CHLORIDE FROM PIPERACAE LEAVES EXTRACT is the bonafide record done by DHANUSHA P (REG. NO: 31220U17008) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

J. John

Signature of the Guide supervisor

[J. LEKHA]

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Signature of the H.O.D

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ISLAMIAH WOMEN'S ARTS Submitted for the Viva - Voce examination held on 11.05.2023

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(HEAVANA) HTTS E)

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled EN SYNTHESIS OF (CO(III) (PHENAN) CL(1 AMINO (PHENYL) METHYLENE) THIOSEMICARBAZIDE is the bonafide record done by GOPIKA D (REG. NO: 31220U17009) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[J. LEKHA]

Signature of the H.O.D ("HPAVANA) IATIO

AD OF THE DEPARTMENT

Submitted for the Viva - Voce examination held on 11 loc 2023 AND SCIENCE COLLEGE of and Arts and

Internal Examiner THICALAVATHI

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by HARIVAISHNAVI T (REG. NO: 31220U17010) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[J. LEKHA]

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ISLAMIAH WOMEN'S ARTS

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Internal Examiner

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Prof. B. BALAJI, M.Sc. M.Phil. NET

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled EN SYNTHESIS AND CHARACTERIZATION OF AZO DYE PARA RED DERIVATIVES is the bonafide record done by HARIYUKTHAR (REG. NO: 31220U17011) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

J. JEKHA]

Signature of the H.O.D

HEAD OF THE DEPARTMENT

A River

DEPARTMENT OF CHEMISTRY Submitted for the Viva - Voce examination held on 11/05/2023 AND SCIENCE COLLEGE ISLAMIAH WOMEN'S ARTS VANIYAMBADI.

Vaniyambadi

Internal Examiner CHIEVAMAS) HTV 2 HEAD OF THE DEPARTMENT DEPARTMENT OF CHEMISTRY ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE VANIYAMBADI.

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DEPARTMENT OF CHEMISTRY

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CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by HEMAVATHI S (REG. NO: 31220U17012) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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encine.

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ISLAMIAH WOMEN'S ARTS Submitted for the Viva - Voce examination held on 11 05 2023 -AND SCIENCE COLLEGE

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled EN SYNTHESIS OF CU(II) 1-(AMINO(PHENYL) METHYLENE)THIOSEMICARBAZIDE is the bonafide record done by JANANI S (REG. NO: 31220U17013) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[J. LEKHA]

Signature of the H.O.D STELL LA LAVADAI

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DEPARTMENT OF CHEMISTRY

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CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by KHATEEB FARHA AIMAN (REG. NO: 31220U17014) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

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Signature of the Guide supervisor

[J. LEKHA]

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Submitted for the Viva - Voce examination held on 11 03/2023 ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE as Arts an VANIYAMBADI.

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MAY - 2023

CERTIFICATE

This is to certify that the group project entitled CORROSION OF MILD STEEL USING ORGANIC INHIBITOR (BAY LEAF - 1 DAY) is the bonafide record done by LAKSHMI S (REG. NO: 31220U17015) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor FATQUA ANJUM A

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DEPARTMENT OF CHEMISTRY

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CERTIFICATE

This is to certify that the group project entitled CORROSION OF MILD STEEL USING ORGANIC INHIBITOR (ANISE STAR SEED - 1 HOUR) is the bonafide record done by MADHUMITHA B (REG. NO: 31220U17016) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry glish under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor FAIQUA ANJUM A

Signature of the H.O.D

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled *CORROSION OF MILD STEEL USING ORGANIC INHIBITOR (BAY LEAF - 1 HOUR)* is the bonafide record done by MAGESWARI M (REG. NO: 31220U17017) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

TA MURNA AUDIAT

Signature of the H.O.D

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled CORROSION OF MILD STEEL USING ORGANIC INHIBITOR (ANISE STAR SEED - 1 DAY) is the bonafide record done by MANJULA G (REG. NO: 31220U17018) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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Signature of the H.O.D

ENCYTE.

J. THILA GIAVATHI)

Viva - Voce examination held on 11.05.2023

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VANIYAMBADI

External Examiner Prof. B. BALAJI, MSc MPHIL NET

ASSISTANT PROFI AND SCIENCE COLLEGEPG & RESEARCH DEPARTMENT OF CHARMEN

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by MEHAR JABEEN E (REG. NO: 31220U17019) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

PALOUA IA MUTUAA Signature of the H.O.D

CACIUSC.

J. THILAGRAVATHI)

Submitted for the Viva - Voce examination held on 11.05.2023

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by NAFIYA AFREEN T (REG. NO: 31220U17020) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS OF SOAP USING TOMATO AS ORGANIC COMPOUND is the bonafide record done by NARMADA M (REG. NO: 31220U17022) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

ANJUM A AUDIA

Signature of the H.O.D

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T. THRAGIAVATHI)

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled **ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES** is the bonafide record done by **NAZMATS** (**REG. NO: 31220U17023**) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[MARY INDOMATH - JP]

Submitted for the Viva - Voce examination held on 11. 05. 2023

Signature of the H.O.D

Jak you

TJ. THILACAVATHI

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Internal Examiner

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by NISHA NANDHINI K (REG. NO: 31220U17025) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[MARY INDIOMATH JP]

Signature of the H.O.D

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IJ. THILAGTAVATHI]

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J. THILAGGAVATIH)

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2023

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF BIOPLASTIC WITH CORN STARCH is the bonafide record done by NIVETHA S (REG. NO: 31220U17026) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

11.05.2023

Signature of the Guide supervisor

(AT . HETAMUCIA) MARY

Submitted for the Xiva - Voce examination held on_

J. THILAGRAVATHI)

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF POLYACID WITH MORINGA RESIN EXTRACT is the bonafide record done by NIVETHA U (REG. NO: 31220U17027) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[MARY INDUMATHIJP]

Signature of the H.O.D

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CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF POLYACID WITH MORINGA RESIN EXTRACT is the bonafide record done by POOVARASI M (REG. NO: 31220U17028) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[MARY

(ADUMATH J?)

5. Thinge Signature of the H.O.D

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Submitted for the Viva - Voce examination held on 11.05.2023

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DEPARTMENT OF CHEMISTRY

MAY - 2023

CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF SILVER NANO PARTICLES WITH LEMON LEAF EXTRACT is the bonafide record done by PRIYADHARSHINI C (REG. NO: 31220U17029) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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DEPARTMENT OF CHEMISTRY

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CERTIFICATE

This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF SILVER NANO PARTICLES WITH ACACIA NICOTICA PODS EXTRACT is the bonafide record done by RIMSHA MARIYAM G (REG. NO: 31220U17031) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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Signature of the H.O.D

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This is to certify that the group project entitled *GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM MORINGA OLEFERA* is the bonafide record done by RUHI H (REG. NO: 31220U17032) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

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DEPARTMENT OF CHEMISTRY

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This is to certify that the group project entitled GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM MURRAYA KOENIGII (CURRY LEAVES) PLANT EXTRACT is the bonafide record done by RUOSAR FATHIMA V M (REG. NO: 31220U17033) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

R. RAMYAJ

ere yel Signature of the H.O.D

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This is to certify that the group project entitled SYNTHESIS AND ANALYSIS OF BIOPLASTICS FROM AGAR AGAR POWDER is the bonafide record done by SANGEETHA P (REG. NO: 31220U17034) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

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Signature of the Guide supervisor

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Signature of the H.O.D

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CERTIFICATE

This is to certify that the group project entitled ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES is the bonafide record done by SUJI V (REG. NO: 31220U17035) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

R. Danya. Signature of the Guide supervisor [R. RAMYA]

Signature of the H.O.D

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This is to certify that the group project entitled APPLE BROWNING PREVENTION IN DIFFERENT SOLUTION is the bonafide record done by THAMIZHARASI A (REG. NO: 31220U17037) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

B. Bomba

Signature of the Guide supervisor

Submitted for the Viva - Voce examination held on \

[R. RAMYA]

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Signature of the H.O.D

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CERTIFICATE

This is to certify that the group project entitled BUTTERFLY PEA FLOWER AS NATURAL INDICATORS is the bonafide record done by VAISHNAVI. D S (REG. NO: 31220U17038) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[R. RAMYA]

Signature of the H.O.D THAY A AAU IHTE &

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CERTIFICATE

This is to certify that the group project entitled **ZERO LIQUIDS DISCHARGE COMMON EFFLUENT TREATMENT PLANT FOE TANNERIES** is the bonafide record done by **VIJAYALAKSHMI A (REG. NO: 31220U17040)** in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

Aishweya - le Signature of the Guide supervisor

[AISHWARYA. K]

CITE GRE.

Signature of the H.O.D

[J.THILAUAVATHI]

Submitted for the Viva – Voce examination held on 11.05.

11.05.2023

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CERTIFICATE

This is to certify that the group project entitled GREEN SYNTHESIS OF METALLIC NANO PARTICLES FROM THE LEAF EXTRACT OF PSIDIUM GUAJAVA is the bonafide record done by VIJAYALAKSHMI V (REG. NO: 31220U17041) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Ae'shwayo. K Signature of the Guide supervisor

AISHWARYA . K)

Arts and Submitted for the Viva - Voce examination held on 11. 05, 2023

Signature of the H.O.D

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This is to certify that the group project entitled ANALYSIS OF HONEY is the bonafide record done by VINODHINI S (REG. NO: 31220U17042) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 – 2023. It has not been formed the basis for the award of any other degree.

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Aishvarya. K

Signature of the Guide supervisor

[ALSHWARYA. k] Proceede.

Signature of the H.O.D

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CERTIFICATE

This is to certify that the group project entitled PRESENCE OF INSECTICIDES AND PESTICIDES IN FRUITS AND VEGETABLE s is the bonafide record done by VINOTHINI S (REG. NO: 31220U17043) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor [AISH WARYA-K]

Signature of the H.O.D

Ste-lete:

PJ. THUAGIAVATHI]

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MAY - 2023

CERTIFICATE

This is to certify that the group project entitled GREEN SYNTHESIS AND FORMULATION IN HYBISCUS ROSA SINENSIS LEVES is the bonafide record done by YASMEEN G M (REG. NO: 31220U17044) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 -2023. It has not been formed the basis for the award of any other degree.

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Aishways. x Signature of the Guide supervisor

[AISHWARYA. K]

Sire yee.

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This is to certify that the group project entitled SYNTHESIS AND CHARACTERISATION OF BIOPLASTIC WITH WHEAT STARCH is the bonafide record done by YUNIKA D (REG. NO: 31220U17045) in partial fulfilment of the requirement for the award of the degree of the Bachelor of Science in Chemistry under my supervision during the period of 2022 - 2023. It has not been formed the basis for the award of any other degree.

Signature of the Guide supervisor

[AISHWARYA·K]

Submitted for the Viva - Voce examination held on 11.05. 23

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Signature of the H.O.D

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