



SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur District – 635601

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31/4 at ‘A+’ Grade,

Affiliated to Thiruvalluvar University

Project List 2018-2019

S. No	Register Number	Name of the students	Title of the Project
1	BP170402	POOVIZHI M R	Understanding the Confirmation transition in GLUT transporter using the coarse-grained model
2	BP170403	MANIMEGALAI V	Extraction and Separation of Phytochemicals on Surulai Kodi available in Yelagiri Hills
3	BP170404	PRIYADHARSHINI G	Studies on Polyoxometalate based compounds
4	BP170405	NIVETHA V	Characterisation of PEM based on Blend Polymer (PVP+PPA) with Magnesium Phosphate
5	BP170406	PRAVEENA D	Synthesis and Characterisation of CTA encapsulated Polyoxomolybdate within Inverse Micro Emulsion
6	BP170407	MUZAKKIRA Y	Extraction and Separation of Phytochemicals on Tarenna Asiatica leaves found in Yelagiri Hills
7	BP170408	ELAVARASAN S	Determination of Fluoride and Defluoridation by activated carbon from Feronia Limonia tree bark and shell
8	BP170409	GRACEDORATHI A	Synthesis and Characterisation of Poly vinyl alcohol assisted Hydroxyapatite coupled with Ultrasonication by precipitation method
9	BP170410	PRABU S	Characterisation of PEM based on Blend Polymer (PVP+PPA) with Magnesium Sulphate
10	BP170411	SAKTHIVEL K	Detection of Antibiotic Residues in Cow Milk

11	BP170412	TAMILARASAN G	Characterisation of PEM based on Blend Polymer (PVP+PPA) with Magnesium Chromate
12	BP170413	JAGADEESH V	Spectroscopic study and application of Copper Doped Graphitic Carbon Nitride
13	BP170414	POZHILAN M	Synthesis of Photophysical studies of Ruthenium (II) Tris benzimidazole pyridine encapsulated with Copper (II) Macrocyclic Complex
14	BP170415	NAZIA S	Synthesis of Cobalt (II) Polypyridyl complex for Functionalised Nanocomposites
15	BP170416	SHEIK MUZZAMMIL A	Synthesis and Characterisation of Hybrid Materials
16	BP170417	SOLAIYAR R K	Synthesis of Iron (II) Polypyridyl complex for Functionalised Nanoparticles
17	BP170418	JAYAPRAKASAM V	Synthesis and Characterisation of DMSO with Strontium assisted Hydroxyapatite powder by Micro Emulsion method
18	BP170419	ARUN G	Synthesis of multinuclear Ru (II) – Cu (II) transition metal complexes for photo physical studies
19	BP170420	MICHAEL P	Synthesis and photophysical studies of Ruthenium (II) Imidazole Complex Bridged through Hydroxyl Naphthalene
20	BP170421	EZHILARASI P	Synthesis and photophysical studies of Tetranuclear Ruthenium (II) Benzimidazole Pyridine Complexes Bridged by compartmental Macrocyclic complexes
21	BP170422	SABARI S	Synthesis of Corrosion inhibitor from plant extract
22	BP170423	VINOTH K	Understanding the conformational transition of Ferroprotein using the structure based modelling
23	BP170424	DINAKARAN S	Eco – Friendly synthesis of Silver Nanoparticles using Lablab Purpureus Plant extract
24	BP170425	SELVAM S	Synthesis and Characterisation of Polyoxometalates by Hydrothermal method
25	BP170426	ARUN S	Green synthesis of Silver

			Nanoparticles using Jatropha Gossypifolia Flower extract
26	BP170427	ASWATHI O P	Adsorption of Chromium on Tamarind Fruit Shell
27	BP170428	NITHYA S	Synthesis and photophysical studies of Dinuclear Ruthenium (II) complexes encapsulated with Multi metallic compartmental Copper (II) Complex
28	BP170429	VIJAYAN D	Detection of Heavy Metals in Lipsticks

UNDERSTANDING THE CONFORMATION TRANSITION IN GLUT TRANSPORTER
USING COARSE GRAINED MODEL

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

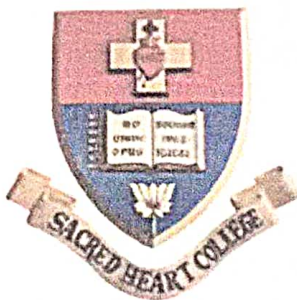
Submitted by

POOVIZHI M.R

Reg. No. BP170402

Under the Guidance of

Dr. NAHREN MANUEL MASCARENHAS, M.Sc., Ph.D.



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

APRIL- 2019

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR-635 60

Department of chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt.

CERTIFICATE

This is to certify that the dissertation entitled “**Understanding the conformation transition in GLUT transporter using coarse grained model**” submitted to Sacred Heart College (Autonomous), Tirupattur-635 601 in partial fulfillment of the requirement for the award of the Degree of Master of science in Chemistry is a record of original research work done by **POOVIZHI M.R** during the period 2018-2019 of his study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

M.R. Poovizhi

Signature of the candidate

Rahen

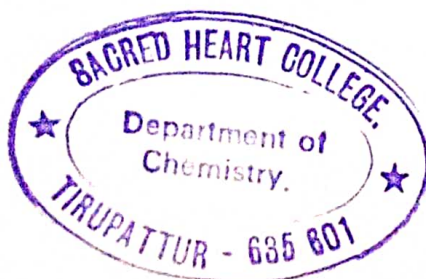
Signature of the Guide

v. Coll
2013/19

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PA)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.



**Extraction and separation of phytochemicals on Surulai
Kodi Plant available in yelagiri Hills, Tamilnadu.**

Dissertation submitted to

**SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR**

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

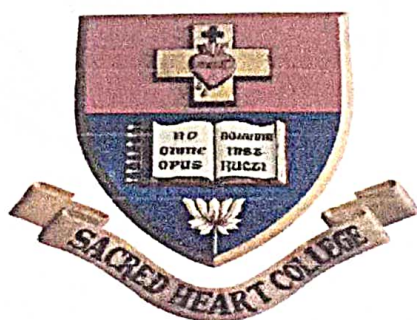
Submitted by

Manimegalai.V

BP170403

Under the Guidance of

Mr. A. Arockia Nepolean Raj, M.Sc., M.Phil.,



Praveen Keren
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

PG and Research Department of Chemistry

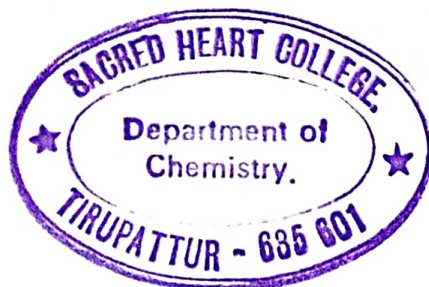
Sacred Heart College (Autonomous)

Tirupattur-635 601

April-2019

CERTIFICATE

This is to certify that the dissertation entitled "Extraction and separation of phytochemicals on *Surulai Kodi plant* available in Yelagiri Hills, Tamilnadu", submitted to Sacred Heart College (Autonomous), Vellore District -635601 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY** is a record of original work done by **MANIMEGALAI.V** during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore – 635601, under my supervision and guidance, this dissertation has not formed the basis of any the award of any Degree/ Diploma or other similar title to any candidate in any university.



V. Manimegala:

Signature of the candidate

A handwritten signature in black ink, appearing to be "V. Manimegala".

Signature of the guide

V. CSA
25/2/19

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)

Department of Chemistry (Shift-II)

Sacred Heart College (Autonomous)

Tirupattur-635 601, Vellore Dt.

STUDIES ON POLYOXOMETLATE BASED COMPOUNDS

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

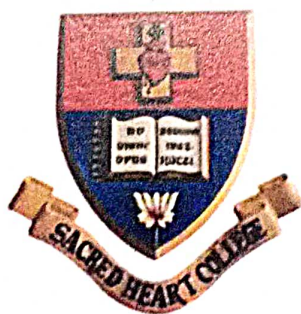
PRIYADHARSHINI. G

Reg. No. BP170404

Under the Guidance of

Dr. T. JEYABALAN, M.Sc., Ph.D.

Associate Professor in Chemistry



Praaveer Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

APRIL -2019

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR-635 601

CERTIFICATE

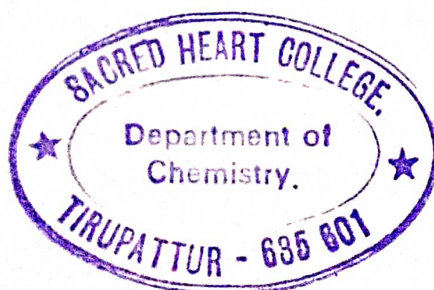
This is to certify that the dissertation entitled "**Studies on polyoxometalate based compounds**" submitted to Sacred Heart College (Autonomous), Tirupattur-635 601 in partial fulfillment of the requirement for the award of the Degree of Master of Philosophy in Chemistry is a record of original research work done by **PRIYADHARSHINI.G** during the period 2018-2019 of her study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

C. Anandharaj

Signature of the candidate

[Signature]
Signature of the Guide

V. CA
2013/19
Signature of the Head of the Department
Dr. V. COLLINS ARUN PRAKASH
Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.



**CHARACTERISATION OF PEM BASED ON BLEND POLYMER
(PVP +PPA) WITH MAGNESIUM PHOSPHATE**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

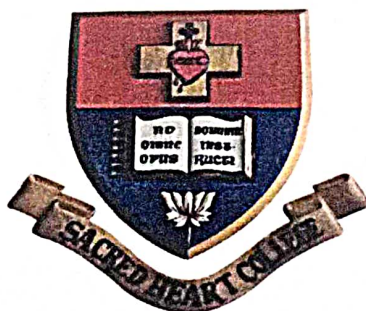
NIVETHA.V

Reg.No: BP170405

Under the Guidance of

Dr.R.S. DIANA SANGEETHA M.Sc., M.Phil., Ph.D.

Assistant Professor in Chemistry



Praaveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Jirupattur, Vellore Dt., 635 601

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR, VELLORE DT-635 601

APRIL 2019

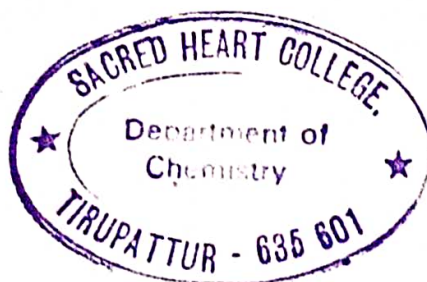
CERTIFICATE

This is to certify dissertation entitled “CHARACTERISATION OF PEM BASED ON BLEND POLYMER (PVP+PPA) WITH MAGNESIUM PHOSPHATE” entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by NIVETHA.V (BP170405) during the period 2018-2019 of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.

v. Nivetha

Signature of the Candidate

RSD 31/8/19
Signature of the Guide



v. C.A.P.

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRKASH

Head (CPG)

*Department of Chemistry (Shift-III)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.*

**SYNTHESIS AND CHARACTERIZATION OF CTA
ENCAPSULATED POLYOXOMOLYBDATE WITHIN
INVERSE MICRO EMULSION**

Dissertation submitted to

**SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR**

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

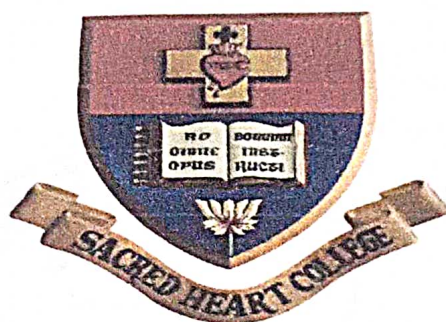
Submitted by

PRAVEENA.D

BP170406

Under the Guidance of

Mrs. C. Elavarasi M.Sc., M.Phil.,



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

PG and Research Department of Chemistry

Sacred Heart College (Autonomous)

Tirupattur-635 601

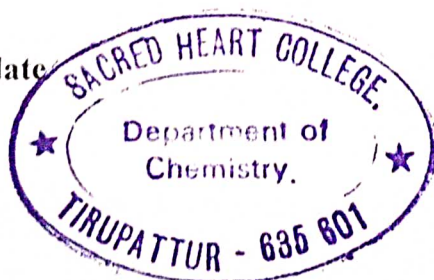
April-2019

CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERIZATION OF CTA ENCAPSULATED POLYOXOMOLYBDATE WITHIN INVERSE MICRO EMULSION" submitted to Sacred Heart College (Autonomous), Vellore District -635601 in partial fulfillment of the requirements for the award of the degree of **MASTER OF SCIENCE IN CHEMISTRY** is a record of original work done by **PRAVEENA.D** during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore – 635601, under my supervision and guidance, this dissertation has not formed the basis of any the award of any Degree/ Diploma or other similar title to any candidate in any university.

D. Praveena.

Signature of the candidate



A handwritten signature in black ink, consisting of stylized initials and a surname.

Signature of the guide

v. Collins

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)
Department of Chemistry (Shift-III)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

Extraction and separation of phytochemicals of *TARENNA ASIATICA* leaves found in Yelagiri Hills.

Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to
THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

Submitted By

MUZAKKIRA.Y

Reg. No: BP170407.

Under the Guidance of

Prof. A. Arokia Nepolean Raj, M.Sc., M.Phil.,

Assistant professor and Head of the Department of Chemistry (U-G1-SHIFT II)



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

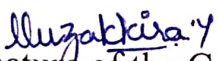
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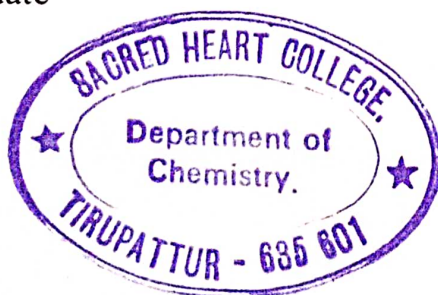
TIRUPATTUR, VELLORE DT-635 601


APRIL 2019

CERTIFICATE

This is to certify that dissertation entitled "*Extraction and separation of Phytochemicals of TARENNA ASIATICA leaves found in Yelagiri Hills*" has been submitted to **Sacred Heart College (Autonomous)**, Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by **MUZAKKIRA Y (BP170407)** during the period **2017-2019** of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur, under my supervision and guidance and this dissertation has not formed the basis for the award of any Degree or similar title to any candidate of any College or University.


Signature of the Candidate




Signature of the Guide

A. AROKIA NEPOLEAN RAJ
Assistant Professor,
Department of Chemistry,
Sacred Heart College,
Tirupattur - 635 601.
Vellore Dt., Tamil Nadu.


Signature of the Head of the Department

Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur - 635 601, Vellore Dt.

**DETERMINATION OF FLUORIDE AND DEFLUORIDATION
BY ACTIVATED CARBON FROM FERONIA LIMONIA TREE
BARK AND SHELL**

Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR

Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfillment for the requirement

for the degree of
Master of Science

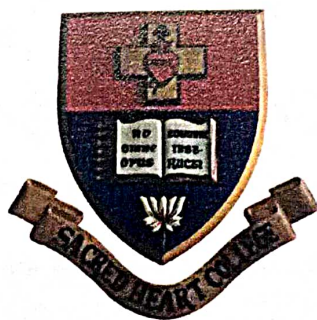
Submitted by

ELAVARASAN. S

BP170408

Under the Guidance of

Dr. R. JUDE VIMAL MICHAEL, M.Sc., M.Phil., Ph.D.,



Praaveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

Post graduate and Research Department of Chemistry

Sacred Heart College (Autonomous)

Tirupattur-635 601.

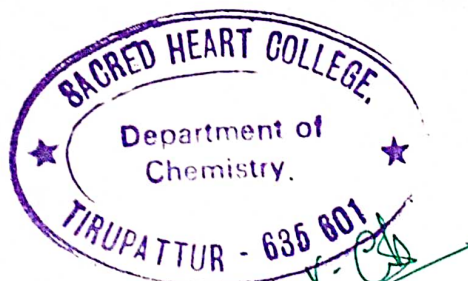
April – 2019

CERTIFICATE

This is to certify that the dissertation entitled "DETERMINATION OF FLUORIDE AND DEFLUORIDATION BY ACTIVATED CARBON FROM FERONIA LIMONIA TREE BARK AND SHELL" submitted to Sacred Heart College (Autonomous), Vellore-635601 in partial fulfillment of the requirements for the award of the Degree of Master of Science is a record of original work done by ELAVARASAN.S during the period 2018-2019 of his study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

Elavarasan. S
Signature of the Candidate

[Handwritten Signature]
Signature of the Guide



Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (P.G.)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur - 635 601, Vellore Dt.

**SYNTHESIS AND CHARACTERISATION OF POLY VINYL ALCOHOL
ASSISTED HYDROXYAPATITE COUPLED WITH ULTRASONIC
SOUND BY PRECIPITATION METHOD**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

GRACEDORATHI. A

Reg. No: BP170409

Under the Guidance of

Dr. V. COLLINS ARUN PRAKASH M.Sc., M.Phil., Ph.D

Assistant Professor in Chemistry



Praaveen Peter
Controller of Examinations
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR, VELLORE DT-635 601

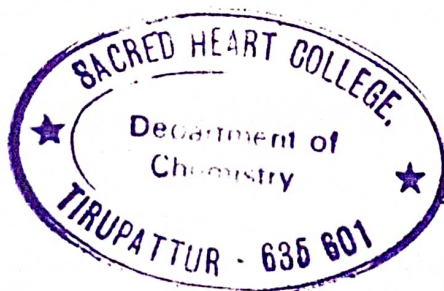
APRIL 2019

CERTIFICATE

This is to certify dissertation "SYNTHESIS AND CHARACTERISATION OF POLY VINYL ALCOHOL ASSISTED HYDROXYAPATITE COUPLED WITH ULTRASONICATION BY PRECIPITATION METHOD" entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by **GraceDorathi. A (BP170409)** during the period **2017-2019** of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.

Grace Dorathi

Signature of the Candidate



V. Collins Arun Prakash

Signature of the Guide

Dr. V. COLLINS ARUN PRAKASH
Research Supervisor,
Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt. 635 601.

V. Collins Arun Prakash

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head - Pb
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

**CHARACTERISATION OF POLYMER ELECTROLYTE MEMBRANE BASED
ON BLEND POLYMER (PVP +PPA) WITH MAGNESIUM SULPHATE**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

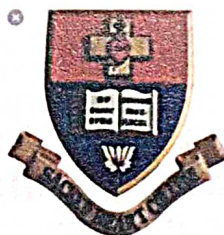
PRABU.S

BP170410

Under the Guidance of

Dr. R.S. DIANA SANGEETHA M.Sc., M.Phil., Ph.D.

Assistant Professor in Chemistry



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR, VELLORE DT-635 601

APRIL 2019

CERTIFICATE

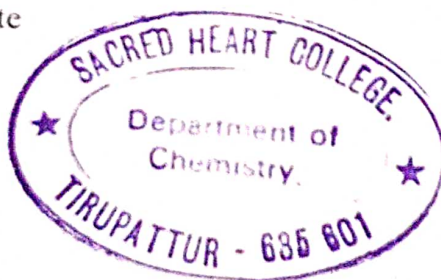
This is to certify dissertation "CHARACTERISATION OF PEM BASED ON BL POLYMER (PVP+PPA) WITH MAGNESIUM SULPHATE" entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by PRABU.S (BP170410) during the period 2018-2019 of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.

P. Prabu

Signature of the Candidate

P.S.D. 31/3/19

Signature of the Guide



v. *CAH*

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (P.G.)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur - 635 601, Vellore Dt.

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DETECTION OF ANTIBIOTIC RESIDUES IN COW MILK

Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR

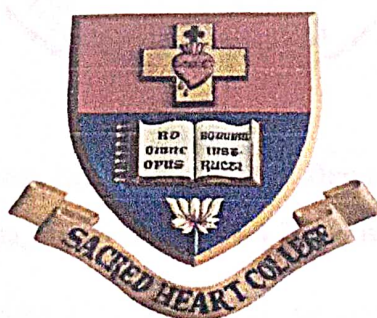
Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfillment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

Submitted by

SAKTHIVEL K
BP170411

Under the Guidance of

Dr. S.R. XAVIER RAJARATHINAM, M.Sc., Ph.D.



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

Post graduate and Research Department of Chemistry

Sacred Heart College (Autonomous)

Tirupattur-635 601.

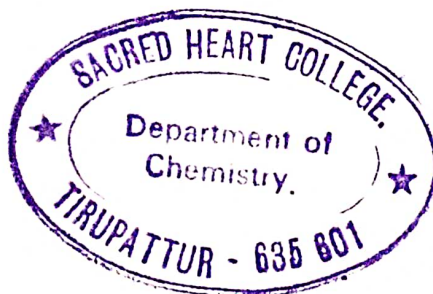
APRIL-2019

CERTIFICATE

This is to certify that the dissertation entitled "DETECTION OF ANTIBIOTIC RESIDUES IN COW MILK" submitted to Sacred Heart College (Autonomous), Vellore-635601 in partial fulfillment of the requirements for the award of the Degree of MASTER OF SCIENCE IN CHEMISTRY is a record of original work done by SAKTHIVEL K during the period 2018-2019 of his study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any Degree/Diploma or other similar title to any candidate in any university.

S. Sakthivel

Signature of the Candidate



S. Xavier Raja Kalyan

Signature of the Guide

Dr. S. XAVIER RAJA RATHINAM, M.Sc., Ph.D.,
Associate Professor and Head,
Department of Chemistry,
Sacred Heart College (Autonomous)
Tirupattur-635 601, (VLR-Dt).

V. Collins Arun Prakash

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (Ph)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

**ELECTROCHEMICAL CHARACTERISATION OF PEM BASED ON BLEND
POLYMER (PVP +PPA) WITH MAGNESIUM CHROMATE**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

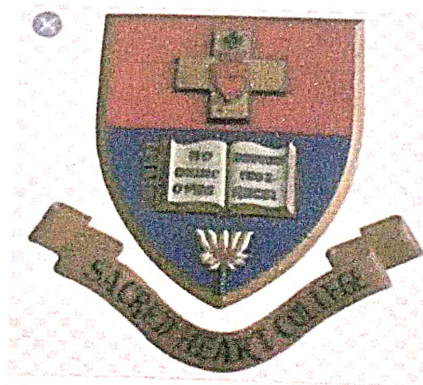
TAMILARASAN.G

Reg.No: BP170412

Under the Guidance of

Dr. R.S. DIANA SANGEETHA M.Sc., M.Phil., Ph.D

Assistant Professor in Chemistry



Praveen Peter
**Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601**

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

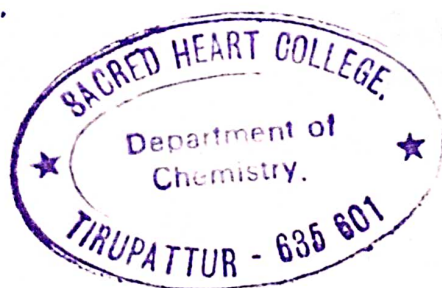
TIRUPATTUR, VELLORE DT-635 601

APRIL 2019

CERTIFICATE

This is to certify that the dissertation entitled "ELECTROCHEMICAL CHARACTERISATION OF PEM BASED ON BLEND POLYMER (PVP+PPA) WITH MAGNESIUM CHROMATE" entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by **TAMILARASAN.G** (BP170412) during the period 2018-2019 of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the disserta tion has formed the basis for the award of any Degree or similar title to any candidate of any College University.

G. Tamilarasan.
Signature of the Candidate



R.S.D. 31/3/19
Signature of the Guide

V. Coll
Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PC)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur - 635 601, Vellore Dt.

SPECTROSCOPIC STUDY AND APPLICATION OF COPPER DOPED GRAPHITIC CARBON NITRIDE

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the requirement

for the degree of

Master of Science

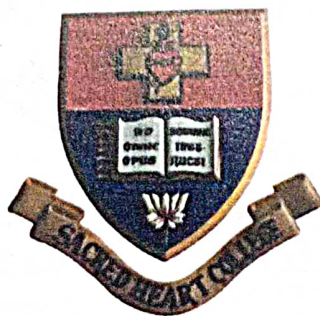
Submitted by

JAGADEESH.V

BP170413

Under the Guidance of

Dr. R. JUDE VIMAL MICHAEL, M.Sc., M.Phil., Ph.D.,



Praaveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 801

Post graduate and Research Department of Chemistry

Sacred Heart College (Autonomous)

Tirupattur - 635 601.

APRIL-2019

CERTIFICATE

This is to certify that the dissertation entitled "SPECTROSCOPIC STUDY AND APPLICATION OF COPPER DOPED GRAPHITIC CARBON NITRIDE" submitted to Sacred Heart College (Autonomous), Vellore-635601 in partial fulfillment of the requirements for the award of the Degree of Master of Science is a record of original work done by JAGADEESH.V during the period 2018-2019 of his study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any university.

V. Jagadeesh

Signature of the Candidate

[Handwritten Signature]

Signature of the Guide



V. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

*Head (CA)
Department of Chemistry (Tirupattur)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.*

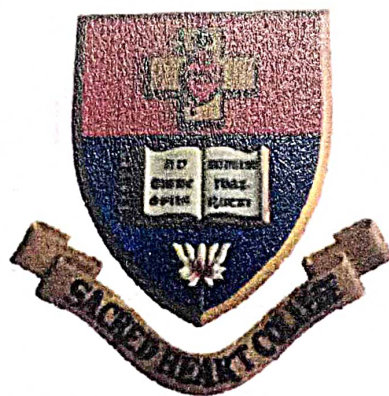
**Synthesis and Photophysical studies of Ruthenium(II) Tris
benzimidazole pyridine encapsulated With Copper(II)
Macrocyclic Complex**

Thesis Submitted to
Sacred Heart College (Autonomous)
Tirupattur, Vellore

Affiliated to the
Thiruvalluvar University, Vellore
In partial fulfilment for the award of the degree of
Master of Science in chemistry

Submitted By
POZHILAN M
Reg. No. **BP170414**

Under the Guidance of
Dr. M. Wilson Bosco Paul, M.Sc., Ph.D.



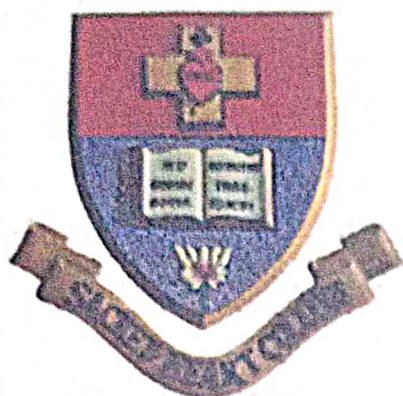
Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

March- 2019

Department of Chemistry

Sacred Heart College (Autonomous)


Tirupattur – 635 601, Vellore Dt.



P.G. and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur-635 601, Vellore District

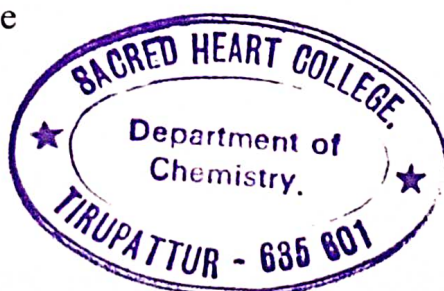
CERTIFICATE


This is to certify that the dissertation entitled "*Synthesis And Photophysical studies Of Ruthenium(II) Tris benzimidazole pyridine Encapsulated With Copper(II) Macrocyclic Complex*" submitted to Sacred Heart College (Autonomous), Tirupattur, Vellore- 635601 in partial fulfilment of the requirements for the award of the degree of Master of Science in chemistry is a record of original work done by **POZHILAN M** during the period 2017-2019 of his study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any university.


Signature of the candidate


Signature of the Guide

Dr. M. Wilson Bosco Paul, M.Sc., Ph.D.
Assistant Professor,
PG and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt. 635 601.




Signature of the Head of the department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

**SYNTHESIS OF COBALT (II) POLYPYRIDYL COMPLEX FOR
FUNCTIONALIZED NANOCOMPOSITES**

Dissertation submitted to

**SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR**

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

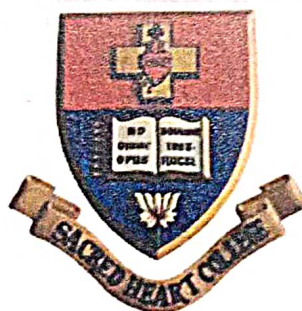
NAZIA S

Reg. No. BP170415

Under the Guidance of

Dr. N. VILVAMANI, M.Sc., Ph.D.

Associate Professor in Chemistry



Praveen Peter

Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

APRIL - 2019

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR-635 601

CERTIFICATE

This is to certify that the dissertation entitled "Synthesis of Cobalt (II) Polypyridyl complex for functionalized Nanocomposites" submitted to Sacred Heart College (Autonomous), Tirupattur- 635601 in partial fulfillment of the requirement for the award of the Degree of Master of Science in Chemistry is a record of original research work done by NAZIA S during the period 2018-2019 of her study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore - 635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree / Diploma / Associate ship / Fellowship or other similar title to any candidate in any university.

S. Nazia.

Signature of the candidate

N. V. S.

Signature of the Guide

V. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Dr. V. Collins Arun Prakash
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

SYNTHESIS AND CHARACTERISATION OF HYBRID MATERIALS

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

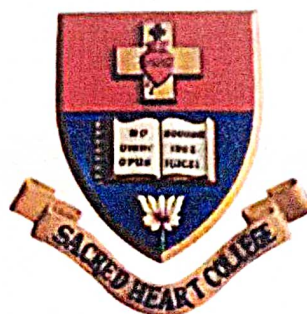
SHEIK MUZZAMMIL. A

Reg. No. BP170416

Under the Guidance of

Dr. T. JEYABALAN, M.Sc., Ph.D.

Associate Professor in Chemistry



Proaver Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous),
Tirupattur, Vellore Dt., 635 601.

APRIL- 2019

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR-635 601

CERTIFICATE

This is to certify that the dissertation entitled “**Synthesis and Characterisation of hybrid materials**” submitted to Sacred Heart College (Autonomous), Tirupattur-635 601 in partial fulfillment of the requirement for the award of the Degree of Master of science in Chemistry is a record of original research work done by **SHEIK MUZZAMMIL**. A during the period 2018-2019 of his study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

S. Sheik Muzammil

Signature of the candidate

[Signature]

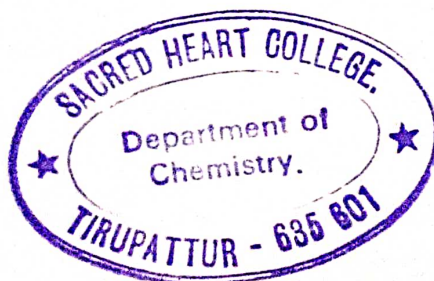
Signature of the Guide

V. CA
30/09

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.



**SYNTHESIS OF IRON (II)-POLYPYRIDYL COMPLEX FOR FUNCTIONALIZED
NANOPARTICLES**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

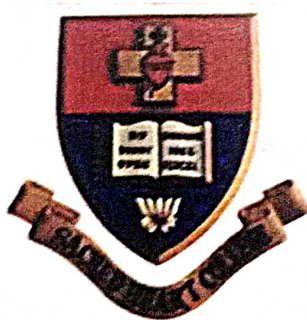
SOLAIYAR R.K

Reg. No. BP170417

Under the Guidance of

Dr. N. VILVAMANI, M.Sc., Ph.D.

Associate Professor in Chemistry



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

APRIL -2019

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR-635 601

CERTIFICATE

This is to certify that the dissertation entitled "Iron (II) Polypyridyl complex for functionalized nanoparticles" submitted to Sacred Heart College (Autonomous), Tirupattur- 635601 in partial fulfillment of the requirement for the award of the Degree of Master of Science in Chemistry is a record of original research work done by **SOLAIYAR R.K** during the period 2018-2019 of his study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

R.k. Polayy

Signature of the candidate

N.V.B.

Signature of the Guide

V. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

*Head (Pa)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601. Vellore Dt.,*

**SYNTHESIS AND CHARACTERISATION OF DMSO WITH STRONTIUM
ASSISTED HYDROXYAPATITE POWDER BY MICRO EMULSION
METHOD**

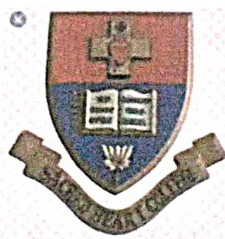
Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfilment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

Submitted By
JAYAPRAKASAM. V
Reg. No: BP170418

Under the Guidance of
Dr. V. COLLINS ARUN PRAKASH M.Sc., M.Phil., Ph.D

Assistant Professor in Chemistry




Praveen Peter
Controller of Examinations
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

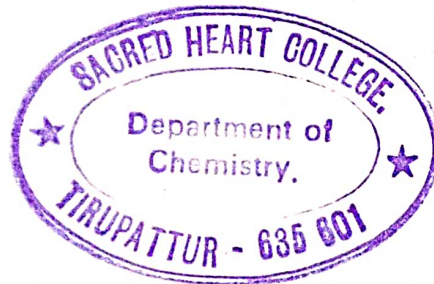
POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR, VELLORE DT-635 601


APRIL 2019

CERTIFICATE

This is to certify dissertation "SYNTHESIS AND CHARACTERISATION OF DMSO WITH STRONTIUM ASSISTED HYDROXYAPATITE POWDER BY MICRO EMULSION METHOD" entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by Jayaprakasam. V (BP170418) during the period 2017-2019 of her study in the post graduate and research department of chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.


Signature of the Candidate




Signature of the Guide

Dr. V. COLLINS ARUN PRAKASH
Research Supervisor,
Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt. 635 601


Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH
Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

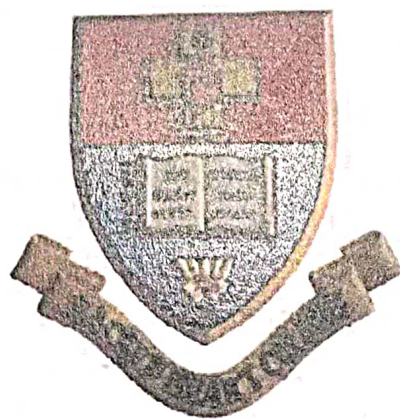
Synthesis of multinuclear Ru(II)- Cu(II) transition metal complexes for photo physical studies

Thesis Submitted to
Sacred Heart College (Autonomous)
Tirupattur, Vellore

Affiliated to the
Thiruvalluvar University, Vellore
In partial fulfilment for the award of the degree of
Master of Science in chemistry

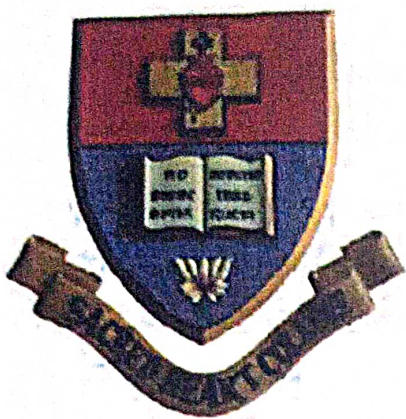
Submitted By
ARUN G
Reg. No. BP170419

Under the Guidance of
Dr. M. Wilson Bosco Paul M.Sc., P.hd.,



Proaver Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

March-2019
Department of Chemistry
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR – 635 601, VELLORE DT.

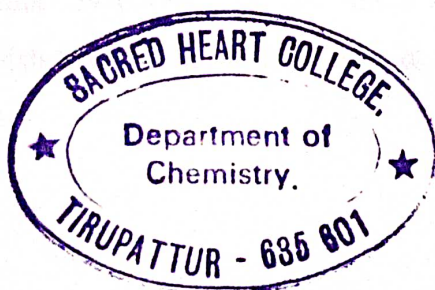


P.G. and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur-635 601, Vellore District

CERTIFICATE

This is to certify that the dissertation entitled "*Synthesis of multinuclear Ru(II)- Cu(II) transition metal complexes for photo physical studies*" submitted to Sacred Heart College (Autonomous), Tirupattur, Vellore- 635601 in partial fulfilment of the requirements for the award of the degree of Master of Science in chemistry is a record of original work done by ARUN G during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any university.

Signature of the candidate



Signature of the Guide
Dr. M. Wilson Bosco Paul, M.Sc., Ph.D
Assistant Professor,
PG and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt. 635 601.

Signature of the Head of the department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

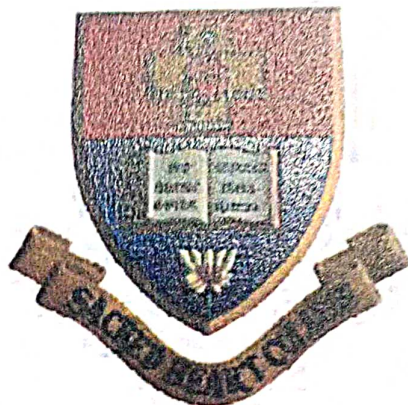
*Synthesis And Photophysical Studies of Ruthenium (II) Imidazole Complex
Bridged Through hydroxyl Naphthalene*

Thesis Submitted to
Sacred Heart College (Autonomous)
Tirupattur, Vellore

Affiliated to the
Thiruvalluvar University, Vellore
In partial fulfilment for the award of the degree of
Master of science in chemistry

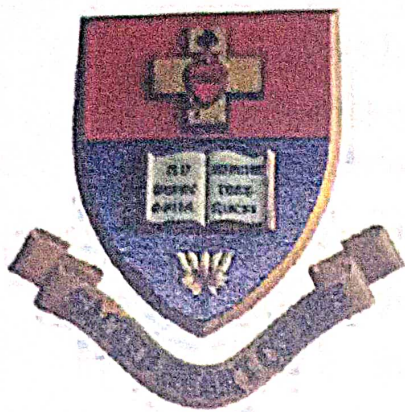
Submitted By
MICHAEL P
Reg. No. **BR170420**

Under the Guidance of
Dr. M. Wilson Bosco Paul, M.Sc., Ph.D.
Assistant Professor



March-2019
Department of Chemistry
Sacred Heart College (Autonomous)
Tirupattur – 635 601, Vellore Dt.

Praveen Peter
**Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601**



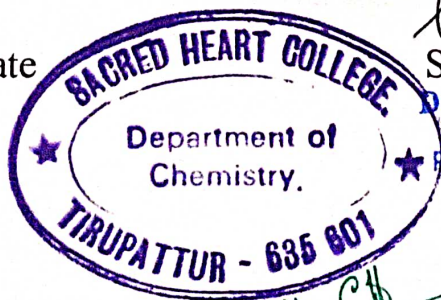
P.G. and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur-635 601, Vellore District

CERTIFICATE

This is to certify that the dissertation entitled "*Synthesis And Photophysical Studies of Ruthenium (II) Imidazole Complex Bridged Through hydroxyl Naphthalene*" submitted to Sacred Heart College (Autonomous), Tirupattur, Vellore- 635601 in partial fulfilment of the requirements for the award of the degree of Master of Science in chemistry is a record of original work done by **MICHAEL P** during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any university.

P. Mif

Signature of the candidate



h. Wilson Bosco Paul

Signature of the Guide
Dr. M. Wilson Bosco Paul, M.Sc., Ph.D.
Assistant Professor,
PG and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur, Vellore Dt. 635 601.

V. Collins Arun Prakash
Signature of the Head of the department

Dr. V. COLLINS ARUN PRAKASH

Head (P)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

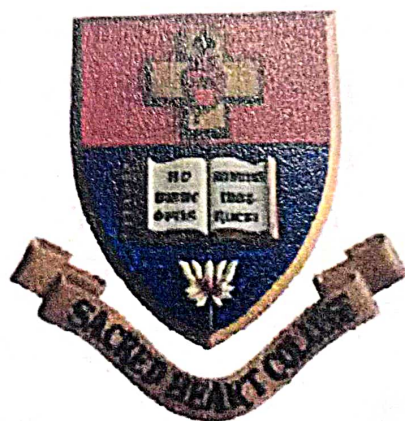
**Synthesis and photophysical Studies of Tetranuclear
Ruthenium(II) Benzimidazole Pyridine Complexes Bridged By
Compartmental Macrocyclic Complexes**

Thesis Submitted to
Sacred Heart College (Autonomous)
Tirupattur, Vellore

Affiliated to the
Thiruvalluvar University, Vellore
In partial fulfilment for the award of the degree of
Master of Science in chemistry

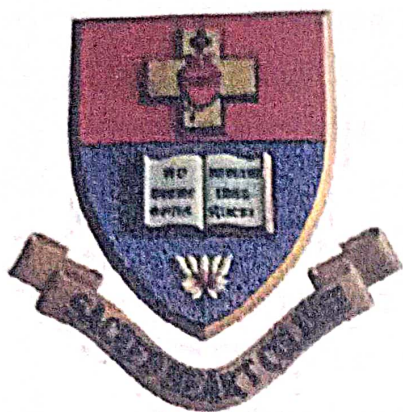
Submitted By
Ezhilarasi P
Reg. No. BP170421

Under the Guidance of
Mr. J. Mario Leo Joseph, M.Sc., M.Phil.,



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

March-2019
Department of Chemistry
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.



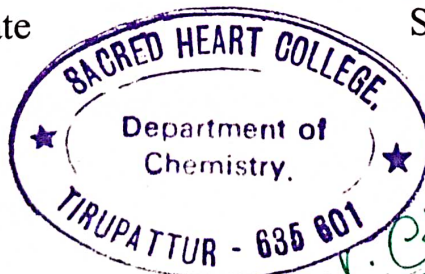
**P.G. and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur-635 601, Vellore District**

CERTIFICATE

This is to certify that the dissertation entitled "*Synthesis and photophysical Studies of Tetranuclear Ruthenium(II) Benzimidazole Pyridine Complexes Bridged By Compartmental Macrocyclic Complexes*" submitted to Sacred Heart College (Autonomous), Tirupattur, Vellore- 635601 in partial fulfilment of the requirements for the award of the degree of Master of Science in chemistry is a record of original work done by **Ezhilarasi P** during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associateship/Fellowship or other similar title to any candidate in any university.

Signature of the candidate

Signature of the Guide



Signature of the Head of the department

Dr. V. COLLINS ARUN PRAKASH
Head
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

SYNTHESIS OF CORROSION INHIBITOR FROM PLANT EXTRACT

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

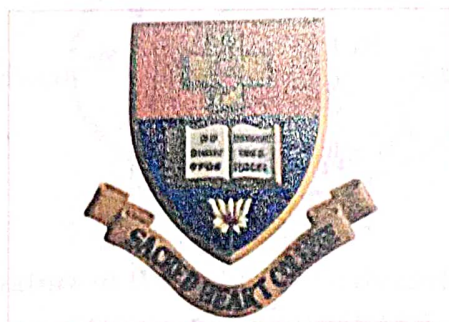
SABARI. S

Reg. No. BP170422

Under the Guidance of

Mrs. M. THENMOZHI, M.Sc., M.Phil.,

Assistant Professor in Chemistry



APRIL- 2019

Praaveen Peter
**Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601**

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

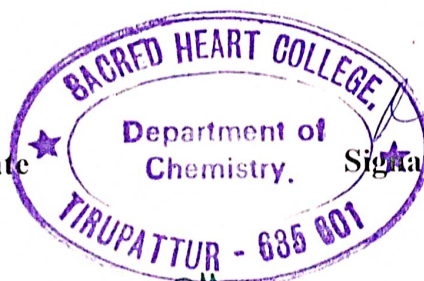
TIRUPATTUR-635 601

CERTIFICATE

This is to certify that the dissertation entitled "Synthesis of corrosion inhibitor from plant extract" submitted to Sacred Heart College (Autonomous), Tirupattur-635 601 in partial fulfillment of the requirement for the award of the Degree of Master of science in Chemistry is a record of original research work done by SABARI, S during the period 2018-2019 of his study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

Signature of the candidate

Sabari S



Signature of the Guide

P. Chennu

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

*Head (Pg)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.*

**UNDERSTANDING THE CONFORMATIONAL TRANSITION OF
FERROPORTIN USING STRUCTURE BASED MODELLING**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALUVAR UNIVERSITY

In partial fulfillment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

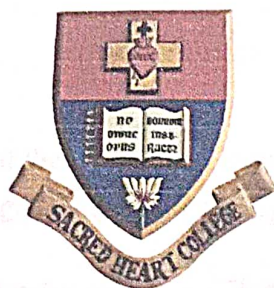
VINOTH. K

BP170423

Under the Guidance of

Dr. NAHREN MANUEL MASCARENHAS

Assistant Professor, Department of Chemistry



Praaveer Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

Post graduate and Research Department of Chemistry

Sacred Heart College (Autonomous)

Tirupattur-635 601.

APRIL-2019

CERTIFICATE

This is to certify that the dissertation entitled "UNDERSTANDING THE CONFORMATIONAL TRANSITION OF FERROPORTIN USING STRUCTURE BASED MODELLING" submitted to Sacred Heart College (Autonomous), Vellore-635601 in partial fulfillment of the requirements for the award of the Degree of Master of Science is a record of original work done by VINOOTH. K during the period 2018-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

K. Vinoth

Signature of the Candidate

Araven

Signature of the Guide

V. Csk

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PC)

Department of Chemistry (Shift-II)

Sacred Heart College (Autonomous)

Tirupattur-635 601. Vellore Dt.

**ECO-FRIENDLY SYNTHESIS OF SILVER NANOPARTICLES USING
LABLAB PURPUREUS PLANT EXTRACT**

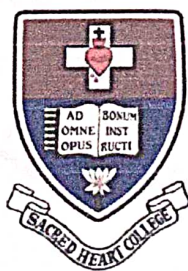
**Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)**

**Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfilment for the degree of
MASTER OF SCIENCE IN CHEMISTRY**

**Submitted By
DINAKARAN.S
Reg. No: BP170424**

**Under the Guidance of
Dr. C.JAYAKUMAR**

Assistant Professor in Chemistry



Praaveen Peter

Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR, VELLORE DT-635 601

APRIL-2019

CERTIFICATE

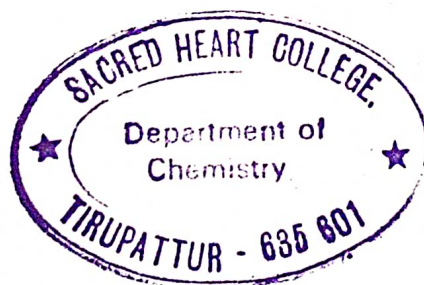
This is to certify dissertation “**ECO-FRIENDLY SYNTHESIS OF SILVER NANOPARTICLES USING *LABLAB PURPUREUS* PLANT EXTRACT**” entitle submitted to **Sacred Heart College (Autonomous)**, Tirupattur in partial fulfillment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by **DINAKARAN.S (BP170424)** during the period **2018-2019** of his study in the post graduate and research department of Chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.

G. Dinakaran

Signature of the Candidate

*Jaya K → S.C
30/03/19*

Signature of the Guide



v. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

*Head (PG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.*

**SYNTHESIS AND CHARACTERISATION OF
POLYONOMETALATES BY HYDROTHERMAL METHOD**

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

SELVAM. S

Reg. No: BP170425

Under the Guidance of

Mrs. C. ELAVARASI M.Sc., M.Phil.

Assistant Professor in Chemistry



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

**POST GRADUATE AND RESEARCH DEPARTMENT OF
CHEMISTRY**

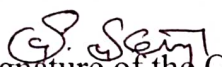
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TIRUPATTUR, VELLORE DT-635 601

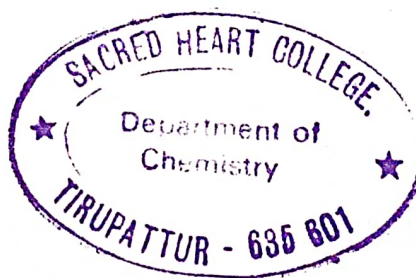
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Signature of the Candidate


Signature of the Guide




Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (CPG)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.

**GREEN SYNTHESIS OF SILVER NANOPARTICLES USING *JATROPIA*
GOSSYPIFOLIA FLOWER EXTRACT**

Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)

Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfilment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

Submitted By

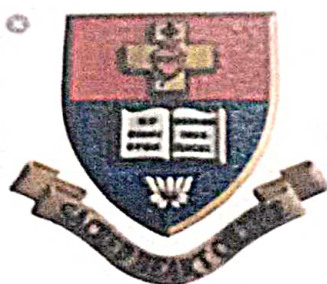
ARUN.S

Reg. No: BP170426

Under the Guidance of

Dr. C. JAYAKUMAR

Assistant Professor in Chemistry



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

POST GRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR, VELLORE DT-635 601

APRIL-2019

CERTIFICATE

This is to certify dissertation "GREEN SYNTHESIS OF SILVER NANOPARTICLES USING JATROPHA GOSSYPIFOLIA FLOWER EXTRACT" entitle submitted to Sacred Heart College (Autonomous), Tirupattur in partial fulfillment of the requirements for the award of the degree of Master of Science in Chemistry is a record of original research work done by ARUN.S (BP170426) during the period 2018-2019 of his study in the post graduate and research department of Chemistry at Sacred Heart College (Autonomous), Tirupattur under my supervision and guidance and the dissertation has formed the basis for the award of any Degree or similar title to any candidate of any College University.

B. Arun S

Signature of the Candidate

Jayak

Signature of the Guide



V. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (PG)

Department of Chemistry (Shift-II)

Sacred Heart College (Autonomous)

Tirupattur-635 601. Vellore Dt.

ADSORPTION OF CHROMIUM ON TAMARIND FRUIT SHELL

Dissertation submitted to

SACRED HEART COLLEGE (AUTONOMOUS)

TIRUPATTUR

Affiliated to

THIRUVALLUVAR UNIVERSITY

In partial fulfilment for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

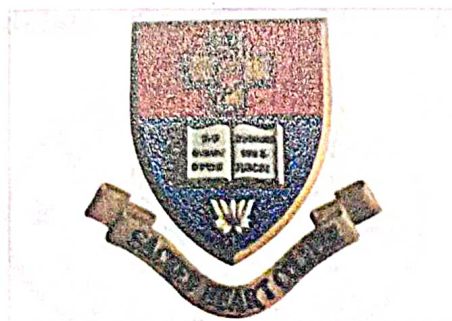
ASWATHI O P

Reg. No . BP170427

Under the Guidance of

Mrs. M. THENMOZHI, M.Sc., M.Phil.,

Assistant Professor in Chemistry



March-2019

Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

Department of chemistry,

Sacred Heart College (Autonomous)

Tirupattur-635 601, Vellore Dt.

CERTIFICATE

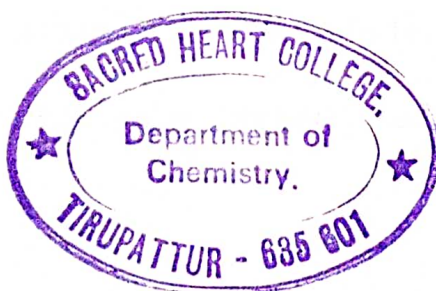
This is to certify that the dissertation entitled “Adsorption of Chromium on tamarind fruit shell” submitted to Sacred Heart College (Autonomous), Tirupattur-635 601 in partial fulfillment of the requirement for the award of the Degree of Master of Philosophy in Chemistry is a record of original research work done by **ASWATHI O P** during the period 2018-2019 of her study in the Department of Chemistry, Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance. The dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

Asct

Signature of the candidate

M. Thevayal

Signature of the Guide



N. CA

Signature of the Head of the Department

Dr. V. COLLINS ARUN PRAKASH

Head (Pg)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601. Vellore Dt.

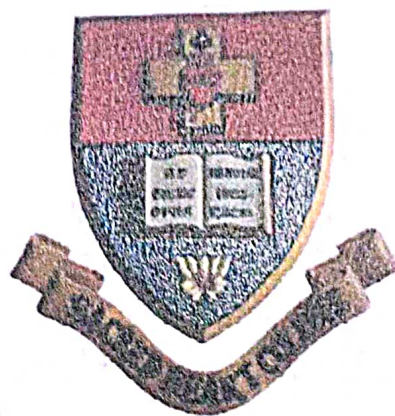
Synthesis and Photophysical Studies of Dinuclear Ruthenium(II)
Complexes Encapsulated With Multimetallic Compartmental Copper(II)
Complexes

Thesis Submitted to
Sacred Heart College (Autonomous)
Tirupattur, Vellore

Affiliated to the
Thiruvalluvar University, Vellore
In partial fulfilment for the award of the degree of
Master of Science in Chemistry

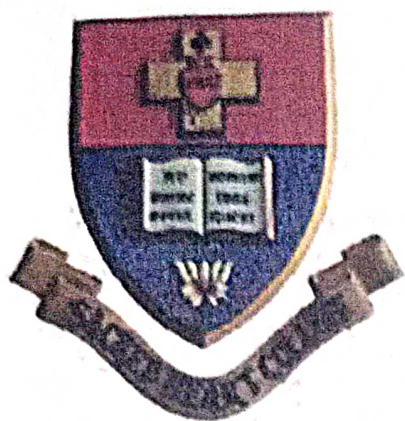
Submitted By
NITHYA S
Reg. No. BP170428

Under the Guidance of
Mr. J. Mario Leo Joseph, M.Sc., M.Phil.,



Praaveen Peter
Controller of Examinations,
'Sacred Heart' College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601

MARCH-2019
Department of Chemistry
Sacred Heart College (Autonomous)
Tirupattur – 635 601, Vellore Dt.



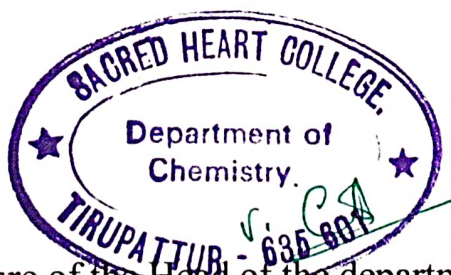
P.G. and Research Department of Chemistry,
Sacred Heart College (Autonomous),
Tirupattur-635 601, Vellore District

CERTIFICATE

This is to certify that the thesis entitled "*Synthesis and Photophysical Studies of Dinuclear Ruthenium(II) Complexes Encapsulated With Multimetallic Compartmental Copper(II) Complexes*" submitted to Sacred Heart College (Autonomous), Tirupattur, Vellore- 635601 in partial fulfillment of the requirements for the award of the degree of Master of Science in chemistry is a record of original work done by **NITHYA S** during the period 2017-2019 of her study in the Department of Chemistry at Sacred Heart College (Autonomous), Tirupattur, Vellore-635601 under my supervision and guidance and this dissertation has not formed the basis for the award of any degree/Diploma/Associate ship/Fellowship or other similar title to any candidate in any university.

S. Nithya

Signature of the candidate



Signature of the Head of the department

Dr. V. COLLINS ARUN PRAKASH

*Head
Department of Chemistry (Shift-III)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.*

Manoj Kumar P.

Signature of the Guide

DETECTION OF HEAVY METALS IN LIPSTICKS

Dissertation submitted to
SACRED HEART COLLEGE (AUTONOMOUS)
TIRUPATTUR

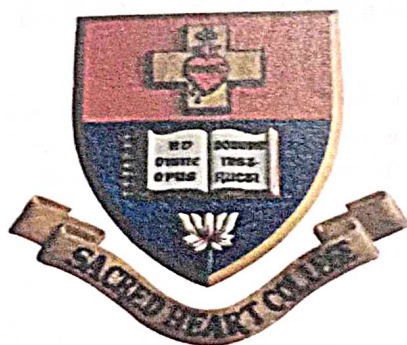
Affiliated to
THIRUVALLUVAR UNIVERSITY
In partial fulfillment for the degree of
MASTER OF SCIENCE IN CHEMISTRY

Submitted by

VIJAYAN.D
BP170429

Under the Guidance of

Dr. S.R. XAVIER RAJARATHINAM, M.Sc., Ph.D.



Praveen Peter
Controller of Examinations,
Sacred Heart College,
(Autonomous)
Tirupattur, Vellore Dt., 635 601.

Post graduate and Research Department of Chemistry

Sacred Heart College (Autonomous)

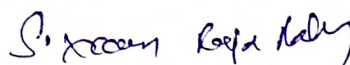
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Signature of the Candidate


Signature of the Guide

Dr. S. XAVIER RAJA RATHINAM, M.B.A., Ph.D.,
Associate Professor and Head,
Department of Chemistry,
Sacred Heart College (Autonomous)
Tirupattur-635 601, (VLR-DI),


Signature of the Head of the Department
Dr. V. COLLINS ARUN PRAKASH

Head (P.A.)
Department of Chemistry (Shift-II)
Sacred Heart College (Autonomous)
Tirupattur-635 601, Vellore Dt.