

JITHIN PRAKASH P. A
Assistant Professor

RESEARCH AND P. G DEPARTMENT OF CHEMISTRY

[DST FIST Sponsored Department]

ST. THOMAS COLLEGE PALA

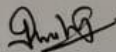
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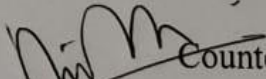


CERTIFICATE

This is to certify that the project report entitled '**Gas sensing, Dielectric and Photoluminescence studies of Sn-Doped ZnO Thin Films synthesized by m-SILAR Method**' is an authentic record of the work carried out by **THOMAS JACOB (REG. NO: 130011007505)** under my supervision and guidance DURING THE PERIOD 2013-2015 in partial fulfilment of the degree of **Master of Science** under the **Faculty of Science, Mahatma Gandhi university**, Kottayam. The work presented in this report has not been submitted for any other degree or diploma earlier.


Mr. **JITHIN PRAKASH P. A**

(Supervising Teacher)Pala

 Countersigned by,

Prof. **BEJOY MATHEW**

(HOD, Department of Chemistry

ST. Thomas College Pala)

September 2015



Amal Jose Baby
Assistant Professor




Research & P. G. Department of Chemistry
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St. Thomas College, Pala
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Pala – 686 574, Kerala

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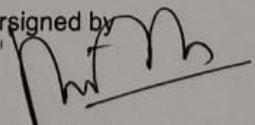
This is to certify that the project report entitled “**Preparation and characterization of $\text{Li}_3\text{Fe}_2(\text{PO}_4)_3$ cathode material for Li-ion Batteries**” is an authentic record of the work carried out by **Miss Stephy Maria Soby** under my supervision and guidance during the period **2014-2015** in partial fulfillment of the degree of **Master of Science in Chemistry** under the **Faculty of Science, Mahatma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Pala
September, 2015




Prof. Amal Jose Baby
(Supervising Teacher)

Countersigned by


Prof. Bejoy Mathew
(Head, Department of Chemistry, St. Thomas College, Pala)

Amal Jose Baby
Assistant Professor



Research & P. G. Department of Chemistry
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St. Thomas College, Pala
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Pala - 686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled **“SYNTHESIS AND CHARACTERIZATION OF CELLULOSE NANOFIBER FROM BAMBOO”** is an authentic record of the work carried out by **Miss Sneha Mol S (130011007501)** under my supervision and guidance during the period **2014-2015** in partial fulfillment of the degree of **Master of Science in Chemistry** under the **Faculty of Science, Mahatma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Pala

September 2015

Prof. Amal Jose Baby
(Supervising Teacher)

Countersigned by

Prof. Bejoy Mathew



(Head, Department of Chemistry, St. Thomas College, Pala)

Sajeev Martin George
Assistant Professor



Research & P.G. Department of Chemistry

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St. Thomas College, Pala

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RE-ACCREDITED WITH A GRADE BY NAAC IN 2015

Pala- 689 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "**Isolation of nanocellulose from pineapple leaf fibre by steam explosion**" is an authentic record of the work carried out by **Ms. Reshma N.S (Reg.130011007500)** under my supervision and guidance during the period 2013-2015 in partial fulfillment of the degree of **Master of Science** under the **Faculty of Science, Mahathma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Sri. SAJEEV MARTIN GEORGE

(Supervising Teacher)

Palai,

September 2015

Counter signed by

Prof. Bijoy Mathew

Head of the Department of Chemistry,

St. Thomas College, Palai



Dr. JOSE K XAVIER
Associate Professor



Research & P. G. Department of Chemistry

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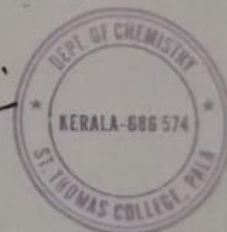
This is to certify that the project report entitled “**A STUDY ON THE TEMPORAL VARIATION IN CHLOROPHYLL CONTENT OF LEAVES**” is an authentic record of the work carried out by **Miss RENJINI M (130011007499)** under my supervision and guidance during the period **2014-2015** in partial fulfillment of the degree of **Master of Science in Chemistry** under the **Faculty of Science, Mahatma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Dr. JOSE K XAVIER

(Supervising Teacher)

Countersigned by

Prof. Bejoy Mathew



(Head, Department of Chemistry, St. Thomas College, Pala)

Dr. Sunny Kuriakose
Associate Professor



Research & P. G. Department of Chemistry

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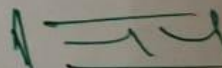
Pala – 686 574, Kerala

Member: American Chemical Society

Member: P. G. Board of Studies, Kerala University

CERTIFICATE

This is to certify that the project report entitled “**Extraction, Purification, Characterization and Antimicrobial Analysis of the Active Principles of *RICINUS COMMUNIS***” is an authentic record of the project work carried out by **Mr. Prithviraj K.R** (Reg. No. 130011007497) under my supervision and guidance during 2013-2015 in partial fulfilment of the requirements for the award of the degree of **Master of Science in Chemistry of the Mahatma Gandhi University, Kottayam**. The work presented in this project report has not been submitted for any Degree or Diploma earlier.

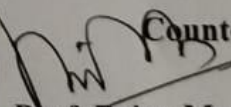

Dr. SUNNY KURIAKOSE

(Supervising Teacher)

Pala

28-09-15




Countersigned by
Prof. Bejoy Mathew, M.Sc.

Head, Department of Chemistry

St. Thomas College, Pala

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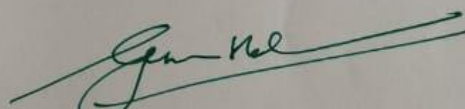
E-mail: sunnykuriakose30@rediffmail.com, sunnykuriakose30@gmail.com

CERTIFICATE

This is to certify that the project report entitled “**Computational Investigation on the Molecular Docking of different ligands with acetylcholinesterse**” is an authentic record of the project work carried out by **Ms. Merin Abraham** under our joint supervision and guidance during 2014-2015 in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry of the Mahatma Gandhi University, Kottayam. The work presented in this project report has not been submitted for any Degree or Diploma earlier.

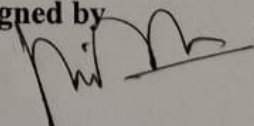


Dr. Jorly Joseph
(Project Guide)
Research Assistant Professor
Institute for Integrated Programmes
and Research in Basic Sciences (IIRBS)
Mahatma Gandhi University
Kottayam



Dr. G. D. Gem Mathew
(Supervising Teacher)
Associate Professor
Dept. of Chemistry
St. Thomas College
Pala

Countersigned by



Prof. Bejoy Mathew
Head, Department of Chemistry
St. Thomas College, Pala



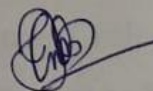
Pala
22-10-2014

CERTIFICATE

This is to certify that the project report entitled "**Synthesis, characterization and antimicrobial properties of Gold Nanoparticles**" is an authentic record of the work carried out by **Ms. Krupa Maria Jose** (Reg. No. 130011007492) under my supervision and guidance during the period 2014-2015 in partial fulfillment of the degree of Master of Science under the Faculty of Science, Mahatma Gandhi University, Kottayam. The work presented in this report has not been submitted for any other or diploma earlier.

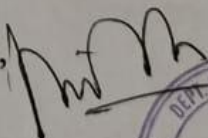
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September 10, 2015

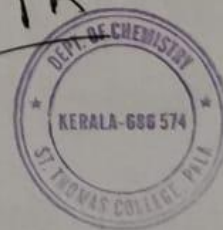


Dr. Thomas V. Mathew
(Supervising Teacher)

Countersigned by,



Prof. Bijoy Mathew
(Head, Department of chemistry,
St. Thomas College, Pala)



Dr. Thomas V. Mathew
Assistant Professor



Research & P. G. Department of Chemistry

St. Thomas College, Palai

(Re-accredited with A Grade by NAAC in 2015)

Pala - 686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "**Computational study of proton transfer mechanism of enol-keto tautomerisations of 2-hydroxy pyridines**" is an authentic record of the work carried out by **Ms. Isna Susan Abraham (Reg no.130011007488)** under my supervision and guidance during the period **2014-2015** in partial fulfillment of the degree of **Master of Science in Chemistry** under the **Faculty of Science, Mahatma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Pala

September 2015

Dr. Thomas V. Mathew

(Supervising Teacher)

Counter signed by

Prof. Bejoy Mathew

(Head, Department of Chemistry, St. Thomas College, Pala)



Jogy Alex
Associate Professor

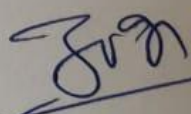


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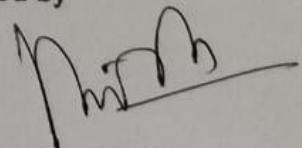
This is to certify that the project report entitled "**Synthesis, characterization and conductivity study of polyaniline and polyaniline doped with titanium oxide**" is an authentic record of the work carried out by **Miss Amruthamol B** (Reg no:130011007485) under my supervision and guidance during the period **2014-2015** in partial fulfillment of the degree of **Master of Science in Chemistry** under the **Faculty of Science, Mahatma Gandhi University, Kottayam**. The work presented in this report has not been submitted for any other degree or diploma earlier.

Pala
September, 2015


JOGY ALEX
(Supervising Teacher)



Countersigned by


Prof. BEJOY MATHEW

(Head, Department of Chemistry,
St. Thomas College, Pala)

CERTIFICATE

This is to certify that the project report entitled "**Synthesis and Characterization of Lithium Niobate Ceramic Structure doped Different Metals**" is an authentic record of the work carried out by **Mr. Ajo Mon George** (Reg. No. 120011007484) under my supervision and guidance during the period 2013-2014 in partial fulfillment of the degree of Master of Science under the Faculty of Science, Mahatma Gandhi University, Kottayam. The work presented in this report has not been submitted for any other or diploma earlier.

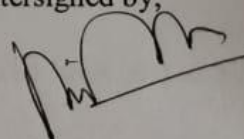
Pala,

September 10, 2015



Dr. Thomas V. Mathew
(Supervising Teacher)

Countersigned by,



Prof. Bijoy Mathew
(Head, Department of chemistry,
St. Thomas College, Pala)