

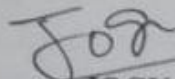
JOGY ALEX
Associate Professor

RESEARCH AND P. G DEPARTMENT OF CHEMISTRY
[DST FIST Sponsored Department]
ST. THOMAS COLLEGE PALA
NAAC ACCREDITED WITH A GRADE
[CENTRE WITH POTENTIAL FOR EXCELLENCE]
PALA- 686574, KERALA

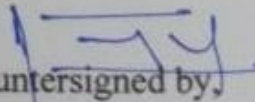


CERTIFICATE

This is to certify that the project report entitled "Extraction, isolation and characterisation of active components from *Aconitum heterophyllum*" is an authentic record, of the work carried out by **SAMANTHA LIZ SEBASTIAN (REG. NO: 140011007432)** under my supervision and guidance during the period 2014-2016 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 degree or diploma earlier.

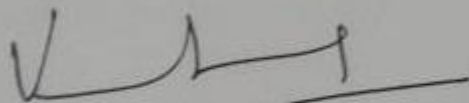

JOGY ALEX
(Supervising Teacher)

Pala
September 2016


Countersigned by,
Dr. Sunny Kuriakose
(HOD, Department of Chemistry
ST. Thomas College Pala)

CERTIFICATE

This is to certify that the project report entitled "DESIGN OF COUMARIN BASED CT DONOR- ACCEPTOR SYSTEMS BASED ON THERMALLY ACTIVATED DELAYED FLUORESCENCE AND TRIPLET -TRIPLET ANNIHILATION FOR FLUORESCENT ORGANIC LIGHT EMITTING DIODES" is an authentic record of the project work carried out by Ms. Parvathy R. Nair under our joint supervision and guidance during 2015-2016 in partial fulfillment 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. Vibin Ipe Thomas

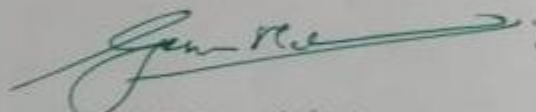
(Project Guide)

Assistant Professor

Dept. of Chemistry

C M S College

Kottayam



Dr. G.D. Gem Mathew

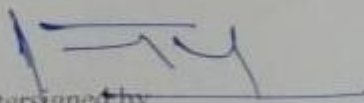
(Supervising Teacher)

Associate Professor

Dept. of Chemistry

St. Thomas College

Pala



Countersigned by

Dr. Sunny Kuriakose

Head, Department of Chemistry

St. Thomas College, Pala

Pala

09-09-2016



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Prof. Sabu Thomas
Hon. Director

30.08.2016

CERTIFICATE

This is to certify that the project report entitled "PREPARATION AND CHARACTERISATION OF CARBON NANOFIBRE-NATURAL RUBBER COMPOSITE" is an authentic record of the project work carried out by MISS MEENU K S under the guidance of Prof. SABU THOMAS at INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANO SCIENCE AND NANOTECHNOLGY, MAHATMA GANDHI UNIVERSITY, KOTTAYAM in partial fulfillment of the requirements for the award of the degree of master of science in chemistry.

Prof. (Dr.) Sabu Thomas
DIRECTOR

KOTTAYAM

30-08-2016

Dr. Jose K. Xavier
Associate Professor



Research & PG Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]
St. Thomas College, Pala
[CENTRE WITH POTENTIAL FOREXCELLENCE]
Pala – 686 574, Kerala

Member: American Chemical Society

CERTIFICATE

This is to certify that the project report entitled "A STUDY OF CURCUMIN CONTENT IN VARIOUS CURCUMA SPECIES AND ITS ANTIBACTERIAL ACTIVITY" is an authentic record of the work carried out by Ms. Joice Ruby Sen (Reg. No. 140011007426) under my supervision and guidance in the Department of Chemistry, St. Thomas College Pala. The work presented in this report has not been submitted for any other degree or diploma earlier.

Dr. JOSE K. XAVIER
Associate Professor
(Supervising Teacher)

Pala
September 2016

Countersigned by
Dr. SUNNY KURIAKOSE
(Head, Department of Chemistry,
St. Thomas College, Pala)

CERTIFICATE

This is to certify that the project report entitled "THE EFFECT OF SUBSTITUENT ON THE ENOL-KETO TAUTOMERIZATION OF 2-HYDROXY PYRIDINES: A DFT STUDY" is an authentic record of the project work carried out by Ms. ANU RANI GEORGE (Reg no. 140011007420) under my supervision and guidance during 2015-2016 in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry under the faculty of science, Mahatma Gandhi University, Kottayam. The work presented in this project report has not been submitted for any Degree or Diploma earlier

Pala

September, 2016 **Dr. Thomas V. Mathew**

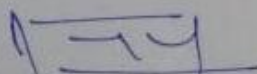


(Supervising Teacher)

Dept. of Chemistry

St. Thomas College, Pala

Countersigned by



Dr. Sunny Kuriakose

HoD, Department of Chemistry

St. Thomas College, Pala