

Dr. THOMAS V MATHEW
Assistant Professor



Research & P. G. Department
of Chemistry
[DST FIST SPONSORED
DEPARTMENT]

St. Thomas College, Pala
[CENTRE WITH POTENTIAL FOR
EXCELLENCE]
Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "SYNTHESIS OF ANTHRACENE AND MALEIC ANHYDRIDE ADDUCT: COMPARISON OF CONVENTIONAL AND MICROWAVE ASSISTED METHODS" is an authentic work carried out by **Mr. JEEVAN MATHEW** (Reg.No.12143655) under my supervision and guidance during the period 2012-2015 in partial fulfillment of the degree of **Bachelor 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.

Pala
April,2015

Dr. THOMAS V MATHEW
(Supervising Teacher)

Countersigned by

for **Prof. BEJOY MATHEW**
Head, Department of Chemistry.
St.Thomas College, Pala

Mr. Sajeev Martin George
Assistant Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala

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Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "SYNTHESIS OF COBALT FERRITE NANOPARTICLES" is an authentic record of the project work carried out by **Mr. James K Joy, Reg. No. 12143662** in partial fulfillment of the project work for the award of the degree of Bachelor of Science in Chemistry of Mahatma Gandhi University under my guidance and supervision during 2014-2015.

Pala

April, 2015



S. Martin
Mr. Sajeev Martin George

Assistant Professor

Department of Chemistry

Counter signed by,

Bej **Prof. Bejoy Mathew**

Head of the Department of Chemistry

St. Thomas College, Pala

PROF.BEJOY MATHEW
Head of the Department



Research and PG Department of Chemistry
(DST FIST SPONSORED DEPARTMENT)

St. Thomas College, Pala

[CENTRE WITH POTENTIAL FOR EXCELLENCE]

Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled **“WATER ANALYSIS-VARIOUS PARAMETERS”** is an authentic record of the work carried out by JACKSON VARGHESE under my guidance in the Department of Chemistry, ST.THOMAS COLLEGE, PALAI during his BSc.Degree in the faculty of science Mahatma Gandhi University, Kottayam.



PROF.BEJOY MATHEW

Head of the Department
Department of Chemistry

Prof JITHIN PRAKASH PA
Assistant Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala

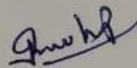
[CENTRE WITH POTENTIAL FOR EXCELLENCE]

Pala -686 574, Kerala

CERTIFICATE


This is to certify that the project report entitled “**SYNTHESIS AND CHARACTERIZATION OF TENORITE (CuO) NANOPARTICLES USING TRITON-X AS STABILIZING AGENT**” is an authentic work carried out by **Mr. DEEPAK JOSEPH** (Reg.No.12143653) under my supervision and guidance during the period 2012-2015 in partial fulfillment of the degree of **Bachelor 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.

Pala
April, 2015


Prof. JITHIN PRAKASH PA
(Supervising Teacher)

Countersigned by




for Prof. **BEJOY MATHEW**
Head, Department of Chemistry.
St. Thomas College, Pala

Valued by.....
Date.....

Mr. Sajeev Martin George
Assistant Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala
[CENTRE WITH POTENTIAL FOR EXCELLENCE]
Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "SYNTHESIS OF COBALT FERRITE NANOPARTICLES" is an authentic record of the project work carried out by **Mr. Chinmayan C Krishnan Reg. No. 12143632** in partial fulfillment of the project work for the award of the degree of Bachelor of Science in Chemistry of Mahatma Gandhi University under my guidance and supervision during 2014-2015.

Pala

April, 2015



Mr. Sajeev Martin George

Assistant Professor

Department of Chemistry

Counter signed by,

Prof. Bejoy Mathew

Head of the Department of Chemistry

St. Thomas College, Pala

CERTIFICATE

*This is to certify that the project report entitled **Some Experiments in Green Chemistry - 5** is an authentic record of the project work carried out by **Mr. Albin Thankachan, Mr. Athul Harisankar S. & Mr. Joyal Jofred** under my supervision and guidance during 2014-2015 in partial fulfilment of the requirements for the award of the degree of Bachelor 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. G.D. Gem Mathew
(Supervising Teacher)
Associate Professor
Department of Chemistry
St .Thomas College, Pala



Countersigned by

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

Pala
15-04-2015

Prof. JOGY ALEX
Associate Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala

[CENTRE WITH POTENTIAL FOR EXCELLENCE]

Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "MICROWAVE ASSISTED ORGANIC SYNTHESIS " is an authentic work carried out by Mr. ARUN JOHN (Reg.No.12143649) under my supervision and guidance during the period 2012-2015 in partial fulfillment of the degree of Bachelor 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.

Pala
April, 2015

Prof. JOGY ALEX
(Supervising Teacher)

Countersigned by

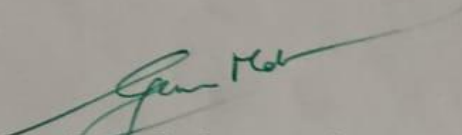
Prof. BEJOY MATHEW
(Head, Department of Chemistry)
St. Thomas College, Pala



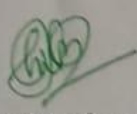
CERTIFICATE

*This is to certify that the project report entitled **Some Experiments in Green Chemistry - 5** is an authentic record of the project work carried out by Mr. Albin Thankachan, Mr. Athul Harisankar S. & Mr. Joyal Jofred under my supervision and guidance during 2014-2015 in partial fulfilment of the requirements for the award of the degree of Bachelor 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. G.D. Gem Mathew
(Supervising Teacher)
Associate Professor
Department of Chemistry
St. Thomas College, Pala

Countersigned by


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

Pala
15-04-2015

Prof. JOGY ALEX
Associate Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala

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Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "MICROWAVE ASSISTED ORGANIC SYNTHESIS " is an authentic work carried out by Mr. VISHNU K L (Reg.No.12143645) under my supervision and guidance during the period 2012-2015 in partial fulfillment of the degree of Bachelor 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.

Pala
April, 2015

Prof. JOGY ALEX
(Supervising Teacher)



Countersigned by

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

PROF. BEJOY MATHEW
Head of the Department



Research and PG Department of Chemistry
(DST FIST SPONSORED DEPARTMENT)

St. Thomas College, Pala

(CENTRE WITH POTENTIAL FOR EXCELLENCE)

Pala - 686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled **“WATER ANALYSIS-VARIOUS PARAMETERS”** is an authentic record of the work carried out by SIJO JOLLY under my guidance in the Department of Chemistry, ST. THOMAS COLLEGE, PALAI during his BSc. Degree in the faculty of science Mahatma Gandhi University, Kottayam.

PROF. BEJOY MATHEW

Head of the Department
Department of Chemistry



PROF. BEJOY MATHEW
Head of the Department



Research and PG 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 "**WATER ANALYSIS-VARIOUS PARAMETERS**" is an authentic record of the work carried out by SANJITH M NEYOR under my guidance in the Department of Chemistry, ST. THOMAS COLLEGE, PALAI during his BSc. Degree in the faculty of science Mahatma Gandhi University, Kottayam.

PROF. BEJOY MATHEW

Head of the Department
Department of Chemistry



AMAL JOSE BABY
Assistant Professor



Research & P. G. Department of Chemistry
[DST FIST SPONSORED DEPARTMENT]

St. Thomas College, Pala

[CENTRE WITH POTENTIAL FOR EXCELLENCE]

Pala -686 574, Kerala

CERTIFICATE

This is to certify that the project report entitled "Determination of rate of corrosion of metals in different mediums" is an authentic work carried out by Mr. Josekutty Cyriac (Reg.No.12143640) under my supervision and guidance during the period 2012-2015 in partial fulfillment of the degree of **Bachelor 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.

Pala
April, 2015

AMAL JOSE BABY
(Supervising Teacher)



Countersigned by

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