



# NIRMALA COLLEGE MUVATTUPUZHA

Muvattupuzha P. O., Ernakulam Dist., Kerala - 686 661

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**FOURTH CYCLE NAAC ACCREDITATION 2019**

## CRITERION 1

### CURRICULAR ASPECTS

1.3.3. Percentage of students undertaking field projects/ internships  
(current year data)

[CLICK HERE](#)

*Submitted to*



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

## CRITERION 1

### CURRICULAR ASPECTS

1.3.3. Percentage of students undertaking field projects/ internships (current year data)

M.Sc Chemistry - Internship Certificates



NIRMALA COLLEGE, MUVATTUPUZHA

**DEPARTMENT OF CHEMISTRY**  
**INTERNSHIP LIST(2018-19)**

SL.NO	NAME OF STUDENT	PROJECT TITLE
1.	ARCHANA JOHNY	FUNCTIONALIZED GRAPHENE BASED EPOXY ANTI-CORROSIVE COATING FOR STEEL
2.	ASWATHY MOHANAN	CAPACITY EVALUATION OF ION-EXCHANGE RESIN USED IN CAPROLACTAM PURIFICATION
3.	DEVIKA HARI	REGIOSELECTIVE S <sub>N</sub> 2 REACTIONS FOR THE SYNTHESIS OF 5- AZIDO MYO-INOSITOL
4.	GRACE MABLE PAUL	A STUDY ON BIOCHEMICAL COMPOSITION OF SEDIMENTARY ORGANIC MATTER OF MANGROVES ALONG KERALA COAST
5.	HEMA SANTHOSH	DETERMINATION OF PIPERINE CONTENT AND OTHER COMPONENTS IN BLACK PEPPER
6.	MABLE MARIA BABY	MnO <sub>2</sub> NANOPARTICLE SYNTHESIS AND PROPERTIES
7.	PAUL JOSEPH	QUALITY EVALUATION OF AUTOMATIVE HIGH SPEED DIESEL WITH 5% BIODIESEL
8.	RUBY SAYED KOODAT	ESTIMATION OF CYCLOHEXANONE FOR CAPROLACTAM PROCESS USING GAS CHROMATOGRAPHY
9.	SIMIMOL SUNNY	ELECTROSPUN TiO <sub>2</sub> COMPOSITE FIBRES FOR DYE DEGRADATION
10.	ANUJA RAJENDRAN	COMPARITIVE STUDY ON THE QUALITY PARAMETERS OF DIFFERENT BRANDS OF TURMERIC POWDER

  
PRINCIPAL  
NIRMALA COLLEGE  
MUVATTUPUZHA





**International and Interuniversity  
Centre for Nanoscience and Nanotechnology  
Mahatma Gandhi University**

**Priyadarshini Hills**

**Kottayam-686 560, Kerala, India**

*Telephone: 91-9447223452 (Mobile), 91-481-2730003 (Office)*

*E-mail: sabuthomas@mgu.ac.in*

*Prof. Dr. SABU THOMAS PhD, FRSC*  
Founder Director & Professor

*03<sup>rd</sup> June 2019*

63/2019

**CERTIFICATE**

This is to certify that the project report entitled “**ELECTROSPUN TiO<sub>2</sub> COMPOSITE FIBRES FOR DYE DEGRADATION**” is an authentic record of the work carried out by **SIMIMOL SUNNY** (Reg No:170011001090) from **NIRMALA COLLEGE, MUVATTUPUZHA** under my guidance and supervision at the **International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam , Kerala** in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kerala

**Prof.Sabu Thomas**

*2019-06-03  
30/5/2019*



**FACT**

**दि फर्टिलाइजर्स एण्ड केमिकल्स ट्रावनकोर लिमिटेड**  
**THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED**

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2567423, 2567380, 2567467, 2567424, 2567798  
ई-मेल / Email : mdc@factltd.com

AGM(TRG)-CERT-PW/84/2018

04.06.2018

**CERTIFICATE**

Certified that **Ms. RUBY SAYED KOODAT**, M.Sc (Chemistry) Nirmala College, muvattupuzha, has successfully completed her Project work on “**Estimation of Cyclohexanone for Caprolactam Process by Gas Chromatography at FACT Ltd.**” Udyogamandal during the period from 03<sup>rd</sup> May 2018 to 25<sup>th</sup> May 2018

K Vijayan  
Asst.General Manager (Trg & Dev)  
FACT Training Centre  
Udyogamandal



पंजीकृत कार्यालय : एलूर, उद्योगमंडल  
Regd. Office: Eloor, Udyogamandal

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड  
भारत सरकार का उपक्रम  
कोच्चि रिफ़ाइनरी



**BHARAT PETROLEUM CORPORATION LIMITED**  
A Govt. of India Enterprise  
**Kochi Refinery**

1415: Trng: P- 3830

07<sup>th</sup> June 2019

## CERTIFICATE

This is to certify that **Mr. PAUL JOSEPH, M.Sc. (Chemistry)** student of **Nirmala College, Muvattupuzha** has undergone **PROJECT WORK** at Bharat Petroleum Corporation Limited-Kochi Refinery from 07.05.2018 to 18.05.2018 and submitted a detailed report titled "Quality Evaluation of Automative High Speed Diesel with 5% Biodiesel."

We have noticed that, during the period, he has shown keen interest in learning.



Rafiha Khan  
Chief Manager  
(Learning & Development)

पोस्ट बॅग नं.: 2, अम्बलमुगल - 682 302 एरणाकुलम ज़िला, केरल. दूरभाष : 0484 - 2722061-69 फ़ैक्स : 0484 - 2720855/6  
पंजीकृत कार्यालय : भारत भवन, 4 & 6, करीमभाय रोड, बेलार्ड इस्टेट, पी.बी.नं. 688, मुंबई - 400 001

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*Prof. Dr. SABU THOMAS PhD, FRSC*  
Founder Director & Professor

*03<sup>rd</sup> June 2019*

60/2019

**CERTIFICATE**

This is to certify that the project report entitled “ **MnO<sub>2</sub> NANOPARTICLES SYNTHESIS AND PROPERTIES**” is an authentic record of the work carried out by **MABLE MARIA BABY**(Reg No:170011001087) from **NIRMALA COLLEGE, MUVATTUPUZHA** under my guidance and supervision at the **International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam , Kerala** in partial fulfilment of the requirements for the award of the degree of Master of Science in Chemistry from Mahatma Gandhi University, Kerala

**Prof.Sabu Thomas**



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उद्योगमंडल / Udyogamandal - 683 501

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2567423, 2567380, 2567467, 2567424, 2567798  
ई-मेल / Email : mdc@factltd.com

AGM(TRG)-CERT-PW/85/2018

25.05.2018

### CERTIFICATE

Certified that **Ms. ASWATHY MOHANAN**, M.sc Chemistry student of **Nirmala College, muvattupuzha**, have successfully completed her Project work on “**Capacity Evaluation of Ion Exchange Resin Used in Caprolactam Purification**” in **FACT Ltd., Udyogamandal** during the period from 03<sup>rd</sup> April 2018 to 25<sup>th</sup> May 2018

*M. Velumani*  
M. Velumani 25/5/18  
Sr. Manager (Trg)

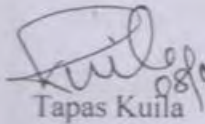


पंजीकृत कार्यालय : एलूर, उद्योगमंडल  
Regd. Office: Eloor, Udyogamandal



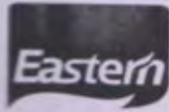
## CERTIFICATE

This is to certify that the project entitled “**Functionalized Graphene based Epoxy Anti-corrosive Coating for Steel**” is an authentic record of the lab work carried out by **Ms. Archana Johny, MSc. Chemistry** student of **Nirmala College, Muvattupuzha, Kerala**, under my supervision and guidance in partial fulfilment of the requirements as a part of their curriculum at the Department of Surface Engineering and Tribology of **Central Mechanical Engineering Research Institute (CSIR-CMERI), Durgapur, West Bengal**, for the award of the degree of Master of Science in Chemistry.

  
08/06/2018  
Tapas Kulla

Senior Scientist  
CSIR-CMERI

डॉ. तापस कुइला / Dr. Tapas Kulla  
वरिष्ठ वैज्ञानिक / Senior Scientist  
सर्फेस अभियांत्रिकी एवं ट्राइबोलॉजी विभाग  
Surface Engineering & Tribology Division  
सी एस आई आर-केंद्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान  
CSIR-Central Mechanical Engineering Research Institute  
महात्मा गांधी एवेन्यू / Mahatma Gandhi Avenue  
दुर्गापुर / Durgapur -713209



# Eastern Condiments (P) Ltd.

An ISO 22000-2005 & HACCP certified company

ECPL/Proj/122  
July 01, 2019.

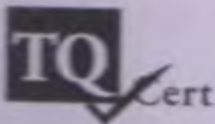
## CERTIFICATE

This is to certify that Ms. ANUJA RAJENDRAN, (Reg.No.170011001080) MSc. Chemistry student of Nirmala College Muvatupuzha, had done "Comparative Study on the Quality Parameters of Different Brands of Turmeric Powder at Eastern Condiments (P) Ltd, Adimali" from 02<sup>nd</sup> May 2018 to 21<sup>st</sup> May 2018 and submitted the report.

Regards,

For EASTERN CONDIMENTS PVT LTD.

Manager -HR



P.B. No: 15, EASTERN VALLEY, ADIMALI - 685 561, KERALA, INDIA.  
Phone: 91-04864-222206, 222050, Fax: 04864-222662  
GRAMS : EASTERN

CIN No. U15499KL1989PTC005449



**Synthite**

REF: SIL/PROJ/076/19

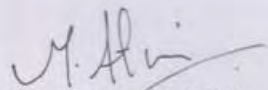
Date: June 28, 2019

**CERTIFICATE**

This is to certify that Ms. Hema Santhosh, Pursuing M.Sc Chemistry, from Nirmala College, Muvattupuzha has completed her Project Study on "Determination of Piperine Content & Other Components in Black Pepper" at Synthite Industries (Pvt) Limited, Pancode, from 14<sup>th</sup> May to 18<sup>th</sup> May 2018.

We wish Ms. Hema Santhosh all success in future endeavors.

For Synthite Industries Limited,



Maddikera Anantha Krishna  
Asst. Manager - Learning & Development





KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES

PANAGAD P.O , KOCHI 682506, KERALA, INDIA

Ph:0484-2703782,2700598; Fax:91-484-2700337;email:utypanangad@kufo.ac.in

Website:www.kufos.ac.in

### CERTIFICATE

This is to certify that the project work entitled " A STUDY ON BIOCHEMICAL COMPOSITION OF SEDIMENTARY ORGANIC MATTER OF MANGROVES ALONG KERALA COAST" is an authentic record of the project work carried out by Ms. GRACE MABLE PAUL under my supervision and guidance at the Department of Aquatic Environment Management, Kerala University of Fisheries and Ocean Studies, Panagad, Kochi, in partial fulfilment of the requirements for the award of Degree of Master of Science in Chemistry under the faculty of Science of Nirmala College , Muvattupuzha affiliated to Mahatma Gandhi University , Kotayam during the academic year 2017-2019

Dr Anu Gopinath

(Supervising Guide)

Assistant Professor

KUFOS , Kochi

Panagad

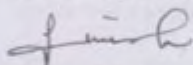
June 2019

Dr. ANU GOPINATH  
Assistant Professor In Chemical Oceanography  
Dept. of Fishery Hydrography  
Kerala University of Fisheries & Ocean Studies  
Panangad, Kochi - 682506

## CERTIFICATE

This is to certify that the project entitled "**Regioselective S<sub>N</sub>2 reactions for the synthesis of 5-azido *myo*-inositol**" is an authentic record of lab work carried out by **Ms. Devika Hari, student of M.Sc. Chemistry, Nirmala College, Muvattupuzha, Ernakulam**, under my supervision and guidance at Indian Institute of Science Education and Research Thiruvananthapuram, in partial fulfillment of the requirements as a part of the curriculum for the award of the degree of Master of Science in Chemistry.

For K.M. Sureshan



**Dr. Kana M Sureshan** Dr. VINESH VIJAYAN  
Assistant Professor  
School of Chemistry  
IISER TVM

Associate Professor

School of Chemistry

IISER Thiruvananthapuram