



UNIVERSITY OF MADRAS
DEPARTMENT OF ANALYTICAL CHEMISTRY
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Certificate

This is to certify that the thesis entitled "Synthesis and characterization of cuprous oxide (Cu_2O): using green method and its visible light irradiation of photocatalytic activity of methylene blue (MB)" submitted by **B. AISHWARYA** of the Auxilium College, Vellore-632 006, in June -2018, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original independent work carried out by him in the Department of Analytical Chemistry, University of Madras under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

(Dr. K. Venkatachalam)

Project Supervisor

Dr. K. Venkatachalam
Principal
Auxilium College

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Vellore District, Tamil Nadu.

CERTIFICATE

This is to certify that the internship report entitled "Phytochemistry and Therapeutic Potential of Methanolic Extract" of *Trichosanthes cucumerina paipudel* is a record of internship done by the candidate Anita Dhar during the period of study 2017 - 2019 in partial fulfillment for the award of Master of Science in Chemistry under me and that the report has not formed the basis for the award of any degree, diploma or any other similar title and that the report submitted by her represents independent work on the part of the candidate.

MF Valan

Signature Dr. M.F. VALAN, Assistant Professor,
Research Supervisor, Dept. of Chemistry,
Loyola College, Chennai - 600 034.

Dr. M. F. Valan
Assistant Professor

Dr. T. J. S. S. S. S. S.

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Date : 09.06.2018

BONAFIDE CERTIFICATE

This is to certify that Ms. M. ASHWINI (Regd.No.30517P14003) is a student of Year M.Sc., (Chemistry) Degree Programme, in the Auxilium College (Autonomous), affiliated to Thiruvalluvar University, Vellore. She successfully completed her summer internship programme in the topic of "Mesoporous Siliceous Materials, Transition Metal loaded SBA-15 & Graphene Oxide : Synthesis and CVD Operating Techniques " under the guidance of me.



(A. PANDURANGAN)

Dr.A. PANDURANGAN, Ph.D.,

HEAD

Department of Chemistry, CEG,
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Dr. Tiger Sankar

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CERTIFICATE

This is to certify that the summer training program report entitled "LEARNING LABROTARY TECHNIQUES AND PREPARATION OF SIMPLE ORGANIC COMPOUNDS" submitted by BHAVYA. S is a bonafide record of work done by her in the Department of Organic Chemistry, University of Madras, Maraimalai (Guindy) Campus and Chennai-25, from May 2018 – June 2018. Certified further that, to the best of our knowledge, the work reported by her do not form part of any thesis or dissertation on the basis of which any award was conferred on an earlier occasion to any candidate.

Dr. (Sr.) Jaya Shanthi. R
Professor,
Head, Department of Chemistry
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K. Parthasarathy 06.06.2018
Dr. K. PARTHASARATHY
Assistant Professor
Project supervisor
Department of Organic Chemistry
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Maraimalai (Guindy) Campus
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Examiners

- A. Paritha* 15/9/18
- J. Rosal* 17/9/18

Date: 06.06.2018

Place: Chennai

Sr. Jaya Shanthi R
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This is to certify that Ms. E. CHANTHINI (Regd.No.30517P14005) is a student of II Year M.Sc., (Chemistry) Degree Programme, in the Auxilium College (Autonomous), Affiliated to Thiruvalluvar University, Vellore. She successfully completed her summer Internship programme in the topic of "HDO of Phenolic Model Compounds Using Mesoporous Catalytic Support in Vapour Phase Reactor " under the guidance of me.



(A. PANDURANGAN)
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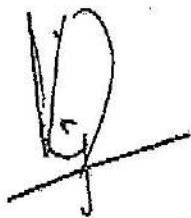
Dr. E. Chanthini

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Vellore District, Tamil Nadu.

DATE: 04.06.2018

CERTIFICATE

Certified that the dissertation entitled "HIGH PERFORMANCE LIQUID CHROMATOGRAPHY" is a record of research work done by Miss. G. DHATCHAYINI during the period of her summer project, internship at THIRUMALAI CHEMICAL LIMITED under the guidance of our managers. This work was carried out by her independently



Jirmalgandhi
General Manager



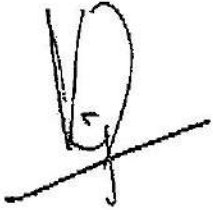
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CERTIFICATE

Certified that the dissertation entitled "SPECTROPHOTOMETER" is a record of research work done by Miss S.FARIHA NAZ during the period of her summer project, internship at **Thirumalai Chemicals Ltd** under the guidance of our managers. This work was carried out by her independently.



V Nirmalgandhi
General Manager



Sr. T. Jagan Sankar

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Joint Secretary, Society for Advancement of Electrochemical Science and Technology (SAEST),
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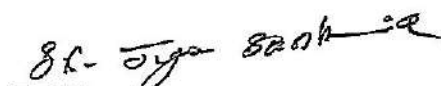
07.06.2018

CERTIFICATE

This is to certify that the thesis entitled "**FRICITION AND WEAR RESISTANT COATINGS USING ELECTROLESS NICKEL/GRAPHENE BASED POLYMER COMPOSITES ON MILD STEEL**" submitted by **Ms. HEMAPRIYA.K (Reg.No.30517P14008)** to **AUXILIUM COLLEGE, VELLORE**, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original independent work carried out by her in the **Department of Analytical Chemistry, University of Madras** under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

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Dr. T.M.Sridhar
Project supervisor


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Certificate of Achievement



This is to certify that **Ms. D. JANCY RANI, Auxilium College** has successfully completed the Summer Internship Training Programme on *"Investigation into Therapeutic Potential of Plant Extract and Phytochemical Analysis"* from 02.05.2018 to 22.05.2018 organized by the Unit of Chemical Science, LIFE, Loyola College, Chennai, Tamilnadu, India.

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Joint Secretary, Society for Advancement of Electrochemical Science and Technology (SAEST), Chennai Chapter

20.07.2018

CERTIFICATE

This is to certify that the thesis entitled "IMMERSION STUDIES ON 316L SS COATED YSZ IN LACTIC ACID CONTAINING ARTIFICIAL SALIVA" submitted by Ms. R.KEERTHANA (Univ Reg No: 30517P14010) to the Auxilium College, Vellore-632006, in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE is the original independent work carried out by him in the Department of Analytical Chemistry, University of Madras under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

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CERTIFICATE

I hereby certify that the summer internship training program report entitled "SYNTHESIS OF SIMPLE ORGANIC COMPOUNDS" has been carried out by the candidate Ms. V. KIRUTHIKA (I M. Sc, Department of Chemistry, Auxilium College) in the Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai-25 during the period of 23rd April-7th June 2018.

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CERTIFICATE

is is certify that the internship report entitled " Investigation into Therapeutic potential of Plant Extract and Phytochemical Analysis" of plant *ANDROGRAPHIS PANICULATA* is a record of internship done by the candidate Leiyami hungshi during the period of study 2017-2019 in partial fulfillment for the award of master of science in chemistry under me and that the report has not formed the basis for the award of any degree, diploma, or any other similar title and that the report submitted by her represents independent work on the part of the candidate.

Signature

M.F. Valan

Dr. M.F. Valan

Dr. M.F. VALAN, Assistant Professor,
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Assistant Professor

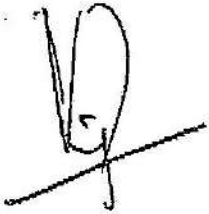
G. Jeyasekar

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Vellore District, Tamil Nadu.

DATE: 04.06.2018

CERTIFICATE

Certified that the dissertation entitled "GAS CHROMATOGRAPHY" is a record of research work done by Miss. S. MAHALAKSHMI during the period of her summer project, internship at THIRUMALAI CHEMICAL LIMITED under the guidance of our managers. This work was carried out by her independently.



**V. Nirmalgandhi
General Manager**



S. Jagan Sankar

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CERTIFICATE

This is to certify that the summer training program report entitled "LEARNING LABROTARY TECHNIQUES AND PREPARATION OF SIMPLE ORGANIC COMPOUNDS" submitted by MANJU. K is a bonafide record of work done by her in the Department of Organic Chemistry, University of Madras, Maraimalai (Guindy) Campus and Chennai-25, from May 2018 – June 2018. Certified further that, to the best of our knowledge, the work reported by her do not form part of any thesis or dissertation on the basis of which any degree or award was conferred on an earlier occasion to any candidate.

Dr. (Sr). Jaya Shanthi. R
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K. Parthasarathy 06.06.2018
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Project supervisor
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Date: 06.06.2018

Place: Chennai

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CERTIFICATE

This is to certify that the work embodied in this project entitled "Synthesis of Co(II)-Schiff base immobilised on SBA-1" submitted by MANONMANI. E, (Reg.No: 30517P14015) Department of chemistry, Auxilium College, Vellore-632006, in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE is the original independent work carried out by her in the Department of Analytical chemistry, University of Madras under my supervision. This dissertation has not been previously formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar titles.

Project Supervisor

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "QUANTIFICATION OF PHYTOCHEMICALS AND ANTIOXIDANT ACTIVITY OF FEW PLANTS" submitted in the partial fulfillment of the requirement for the degree of "MASTER OF SCIENCE in CHEMISTRY" to the AUXILIUM COLLEGE (AUTONOMOUS) is a record of bonafide work carried out by Miss. MEGALA. D, Register No. 30517P14016 under the supervision and guidance of Dr. N.K. UDAYA PRAKASH.



EXTERNAL GUIDE

Dr. N.K. UDAYA PRAKASH,
M.Sc., M.Phil., Ph.D., IQAC (USA),
F.B.F.I., F.M.S.I., CIPR (WIPO – Geneva)
President – Biologists Forum of India

EXTERNAL GUIDE

Dr. Rosaline Ezhilarasi J., M.Sc., M.Phil., Ph.D., SET

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Vellore – 632 001.

Dr. Rosaline Ezhilarasi

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Examiner (1)

Examiner (2)



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09.06.2018

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This is to certify that Ms. M. NANDHINI (Regd.No.30517P14017) is a student of II Year M.Sc., (Chemistry), Degree Programme, in the Auxilium College (Autonomous), Affiliated to Thiruvalluvar University, Vellore. She successfully completed her summer Internship programme in the topic of "Synthesis of Graphene Oxide Nanomaterials for Electrochemical Applications" under the guidance of me.

(A. PANDURANGAN)
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Assistant Professor

CERTIFICATE

This is to certify that the work embodied in this project entitled "Synthesis of Manganese Schiff base complex immobilised on SBA-15" submitted by K. PAVITHRA, (Reg.No: 30517P14018) Department of chemistry, Auxilium College, Vellore-632006, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original independent work carried out by her in the **Department of Analytical chemistry, University of Madras** under my supervision. This dissertation has not been previously formed basis for the award of any degree, diploma, associate ship, fellowship or any other similar titles.

Project Supervisor

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Joint Secretary, Society for Advancement of Electrochemical Science and Technology (SAEST), Chennai Chapter

07.06.2018

CERTIFICATE

This is to certify that the thesis entitled "**INVITRO BIOACTIVITY STUDY USING ELECTROSPUN NANOFIBER**" submitted by Ms.PAVITHRA.N(Reg.No.30517P14019) to **AUXILIUM COLLEGE, VELLORE**, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original independent work carried out by her in the **Department of Analytical Chemistry, University of Madras** under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

Dr.(Sr). Jaya shanthi.R
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Dr. T.M.Sridhar
Project supervisor



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Certificate of Achievement



This is to certify that **Ms. C. J. PRAVEENA, Auxilium College** has successfully completed the Summer Internship Training Programme on *"Investigation into Therapeutic Potential of Plant Extract and Phytochemical Analysis"* from 02.05.2018 to 22.05.2018 organized by the Unit of Chemical Science, LIFE, Loyola College, Chennai, Tamilnadu, India.

M. F. Valan

Dr. M. F. Valan
Convener

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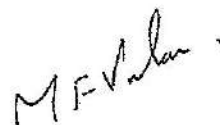
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CERTIFICATE

This is certify that the internship report entitled "PHYTOCHEMICAL AND PHARMACOLOGICAL INVESTIGATION OF METHANOL EXTRACT OF *PLECTRANTHUS VETTIVEROIDES*" is a record of internship done by the candidate A. Preethi (30517P14021) during the period of study from (02-5-2018 to 22-5-2018) in partial fulfillment for the award of master of science in chemistry under me and that the report has not formed the basis for the award of any degree, diploma, or any other similar title and that the report submitted by her represents independent work on the part of the candidate.



Signature

Dr. M.F. VALAN, Assistant Professor,
Research Supervisor, Dept. of Chemistry,
Loyola College, Chennai - 600 034.



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This is to certify that Ms. RISHITHA. P (Regd.No.30517P14022) is a student of II Year M.Sc., (Chemistry) Degree Programme, in the Auxilium College (Autonomous), Affiliated to Thiruvalluvar University, Vellore. She successfully completed her **summer Internship programme** in the topic of "Mesoporous Catalytic Support for HDO Reaction in Vapour Phase Condition" under the guidance of me.


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Vice President, Indian Society of Analytical Scientists (ISAS), Madras Chapter, Chennai
C Member, NIGIS, (NACE International Gateway India Section), South Zone, www.naceindia.org
Joint Secretary, Society for Advancement of Electrochemical Science and Technology (SAEST), Chennai Chapter

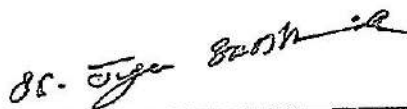
07.06.2018

CERTIFICATE

This is to certify that the thesis entitled "**GRAPHENE OXIDE COATINGS ON Ti SUBSTRATE FOR BIOMEDICAL APPLICATIONS**" submitted by Ms. **SHARMILA.D**(Reg.No.30517P14023) to **AUXILIUM COLLEGE, VELLORE**, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original independent work carried out by her in the **Department of Analytical Chemistry, University of Madras** under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

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This is to certify that the thesis entitled "Green Route Synthesis and characterization of Cuprous Oxide (Cu_2O): Visible light Irradiation of photocatalytic activity of methylene blue (MB) dye" submitted by **S. Suganya** the Auxilium College, Vellore-632 006, in June -2018, in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** is the original dependent work carried out by him in the Department of Analytical Chemistry, University of Madras under my supervision. This thesis has not been previously formed the basis for the award of any Degree, Diploma, Associate ship, Fellowship or any other similar titles.

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I hereby certify that the summer internship training program report entitled "SYNTHESIS OF SIMPLE ORGANIC COMPOUNDS" has been carried out by the candidate Ms. R. UMAMAGESHWARI (I M. Sc, Department of Chemistry, Auxilium College) in the Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai-25 during the period of 23th April-7th June 2018.

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