



# ST. MARY'S COLLEGE (AUTONOMOUS)

RE-ACCREDITED WITH 'A' GRADE BY NAAC

THOOTHUKUDI- 628001, TAMIL NADU

NEWSLETTER

PG DEPARTMENT OF CHEMISTRY

Academic Year 2019-2020



## EDITORIAL TEAM

**Dr. J. Antony Rajam**

Coordinator & Assistant Professor of Chemistry

**Dr. C. Zozimus Divya Lobo**

Assistant Professor of Chemistry

**Ms. K. Saravanadevi**

Assistant Professor of Chemistry

**Ms. D. Carolin Jeniba Rachel**

Assistant Professor of Chemistry



## HOD'S Message

Dear Students and Faculty of the PG Department of Chemistry,

I am very glad to share the latest updates and achievements from our department. With four dynamic and dedicative faculty members in the department, we offer great exposure to the learners for exploring new ideas in research and recognizing opportunities in various fields.

- Our students have visited NLC Tamilnadu Power Limited, Thoothukudi.
- Our students have attended Employability skills for the future and Skill up your Communication conducted by ICT academy "NEW LEARNATON INDIA 2020"
- Our students have presented their papers in various conferences and seminars.
- One of the students has received Student Project Award of Rs.7, 500/- from Tamil Nadu State Council for Science and Technology (TNSCST).
- Our staff members have acted as Resource person, Evaluating & Assessing committee member, Chief Guest and Course Coordinator.
- Our faculty members have presented and published papers at prestigious conferences and in reputed journals, contributing significantly to academic discourses

I extend my heartfelt congratulations to all our students and faculty for their achievements. Let us continue to strive for even greater heights in the upcoming years.

Thank you for your cooperation and support.

Warm regards,

**Dr. J. Antony Rajam**

Coordinator and Assistant Professor

## CHEMISTRY LABORATORY

The chemistry laboratory helps students to develop essential skills such as handling glasswares with precision and care. It trains them to use heating tools while observing chemical reactions. Students learn to measure and mix chemicals accurately and to improve their analytical and observation skills. The lab environment emphasizes the importance of safety practices, such as wearing goggles and gloves, handling spills and using first aid when necessary. Through hands-on experiments, students build confidence in following protocols, troubleshooting issues and applying theoretical knowledge to practical scenarios.

## MENTOR MENTEE SYSTEM

The system is a move towards Student Support and Progression. It purports to achieve holistic development of every student in the department. A teacher has a group of students whose academic and other aspects of their progress are her concern. The teacher takes care to concentrate more on issues related to their psychological needs during periodical Tutor- Ward Meet each Friday from 2. 30 p.m. to 4.00 p.m. A record of academic results and bio-data of each of the students is maintained.

## BOARD OF STUDIES

The Board of Studies Meeting of the P.G. Department of Chemistry was conducted on 1st February 2020 at 10.30 a.m. in the Department of Chemistry. The subject experts of the board were Dr.M. George Johnson, Head & Associate Professor of Chemistry, Loyola College (Autonomous), Chennai, Dr. S. Joseph Selvaraj, Associate Professor of Chemistry, St. Joseph's College (Autonomous), Trichy, Dr. R. Murugesan, Associate Professor of Chemistry, TDMNS College, Kallikulam, Tirunelveli and Dr. J. Sidharthan, Associate Professor of Chemistry, V.O.C College, Thoothukudi, the university nominee was Dr. K. Swarnalatha, Associate Professor of Chemistry, Manonmaniam Sundaranar University, Tirunelveli and the alumna representative was Dr. J. Rajula Jasmine Usha, Associate Professor of Chemistry, Sarah Tucker College (Autonomous), Tirunelveli. The Syllabus was designed in the pattern of Outcome Based Education with Choice Based Credit System. The board acknowledged and approved the set pattern.

## DEPARTMENT ACTIVITY

The PG Department of Chemistry organized a virtual International Conference focusing on the topic "Bioinformatics and Microbiome & Climate Biomes and India" on 17th May 2020. The event featured two distinguished speakers: Dr. T. Gnanendra Shanmugam, an Assistant Professor and International Research Professor from the Microbial Genomics Lab, Yeungnam University, South Korea, and Dr. S. V. Rajesh, an Assistant Professor of Botany at Ramakrishna Mission Vivekananda College, Chennai. The conference was highly impactful, benefiting approximately 472 participants.

Semester	Date	Semester	Date
ODD	12.07.2019	EVEN	29.11.2019
	09.08.2019		06.12.2019
	13.09.2019		20.12.2019
	27.09.2019		03.01.2020
	04.10.2019		07.02.2020
	18.10.2019		28.02.2020
			06.03.2020
			13.03.2020

## PTA & ALUMNAE MEET DATES

The Parents Teachers Association conducted meetings regularly for all the parents and students of the department. The meetings were held respectively II M.Sc. on 27.09.2019 and for I M.Sc. on 08.02.2020.



 **St. Mary's College(Autonomous),**  
(Recognized with 'A' Grade by NAAC)  
Thoothukudi-628001, Tamilnadu

**PG Department of Chemistry**  
Organizes

**One day International Webinar on**  
**BIOINFORMATICS IN MICROBIOME RESEARCH**  
**&**  
**CLIMATE, BIOMES AND INDIA**

 **Dr. T. Gnanendra Shanmugam**  
**International Research Professor,**  
**Yeungnam University,**  
**South Korea.**

 **Dr. S. V. Rajesh,**  
**Assistant Professor of Botany,**  
**Ramakrishna mission**  
**Vivekananda College, Chennai.**

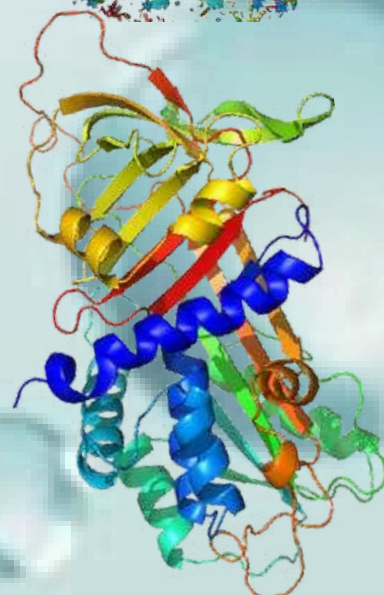


Registration closes  
on 14.05.2020.  
Registration Link:  
<https://forms.gle/evPS7nr9nSdN3UIYA>

Date:  
16.05.2020 at  
10.30 am  
IST

No Registration Fee.  
E- Certificate will be  
provided.

Principal  
Dr. Sr. A. S. J. Lucia Rose  
Director (SSC)  
Sr. F. Mary Joyce Baby  
Convener  
Dr. C. Zozimus Divya Lobo  
Organizing Committee  
Dr. J. Antony Rajam  
(SSC Coordinator, PG Dept. of Chemistry)  
Ms. K. Saravanadevi  
Ms. D. Carolin Jeniba Rachel



## STAFF ACTIVITIES

Name	Publications			Conference	Seminar / Webinar	Workshop	F D P	Short Term Training Program
	Paper	Proceedings	Chapter					
<u>Dr.J. Antony Rajam</u>	5	1	3	7	19	6	7	1
<u>Dr.C.Zozimus Divva Lobo</u>	1			3	55	5	5	
<u>K.Saravanadevi</u>	2	5		3	29	3	9	
<u>D.Carolin Jeniba Rachel</u>	1	2		4	25	3	9	

## RESOURCE PERSON

Name	Programme	Role	Date
Dr. J. Antony Rajam	Evaluating and Assessing Committee	Member	24.06.2019 to 26.06.2019
	Social Science Club Inauguration	Chief Guest	27.06.2019
	Quality Enhancement through Institutional Assessment	Resource Person	22.10.2019
K. Saravanadevi	Five Days Online FDP on Moodle Learning Management System	Resource Person & Course Coordinator	25.05.2020 to 29.05.2020

## INDUSTRIAL VISIT

PG Department of Chemistry organized a Industrial visit for the students of I M.Sc. (4) and II M.Sc. (14) as a part of their curriculum. During the visit, the specialist described the desalination plant's operation and principle as well as the water parameter study. They witnessed the electricity generation process as well. Four faculty members escorted the students to NLC Tamilnadu Power Limited, Thoothukudi on 24th January 2020. The purpose was to provide practical expose to the students on course namely Energy and Environmental Chemistry and Industrial Chemistry. The students were able to relate and comprehend the content of the course with real-time experience.



## STUDENTS ACTIVITIES

- T. Kowsalya of II M.Sc. student received Student Project Award of Rs.7, 500/- from Tamil Nadu State Council for Science and Technology (TNSCST) during April 2020.
- Four students of I M.Sc. Chemistry have attended Employability skills for the future and Skill up your Communication conducted by ICT academy "NEW LEARNATON INDIA 2020" on 5th May 2020.
- Thirteen students of I & II M.Sc. Chemistry have attended Online Communication skills conducted by Stepathon, THE HINDU Group on 28th May 2020.
- Eleven students of II M.Sc. Chemistry have presented their papers in international conferences and seminars.
- Ten students have participated in International Conference on the topic "Advanced materials" Organized by Department of physics, Aditanar College of Arts and Science, Tiruchendur on 26th August 2019.
- Four students have participated in State Workshop on the topic "Google Tools For Science Aspirants" Organized by Research advisory committee, St. Mary's College Autonomous), Thoothukudi, on 18th and 19th September 2019.



## PG PROJECTS

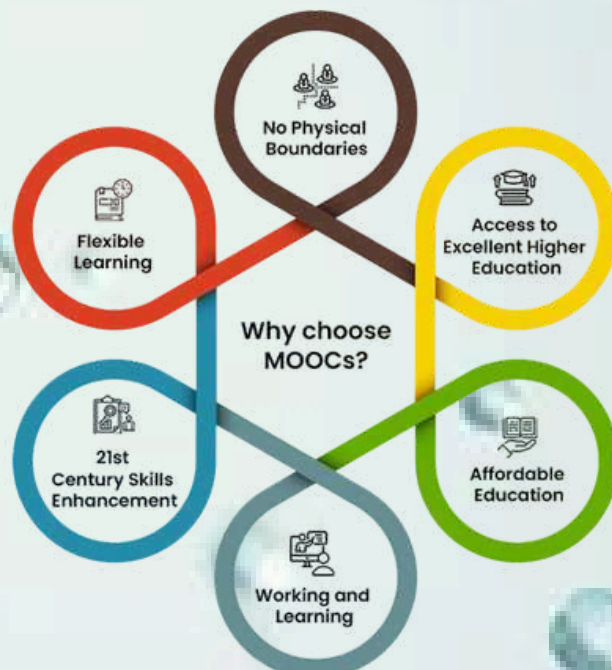
A total of fourteen post graduate students of II M.Sc. Chemistry submitted the projects. The details are as follows:

Register No.	Student's Name	Project Title
18SPCH01	Anto Maria Jesili R	<i>Euphorbia hirta</i> as green corrosion inhibitor for mildsteel in HCL
18SPCH02	Antony Chella Nisha C	Corrosion inhibitors of mild steel in IM HCl using <i>Solanum surattense</i> .
18SPCH03	Antony Micheal Nivetha M	A Natural Inhibition activity of Phytochemical compounds against Asthma.
18SPCH04	Antony Sahaya Rathi V	Antioxidant activity of eco-friendly synthesis of SeO <sub>2</sub> nanoparticles using wheymilk extract and Characterisation.
18SPCH05	Gayathri C	Supercapacitance properties of LiWO <sub>3</sub> Nanoparticles using Reverse micelles method.
18SPCH06	Kowsalya T	A Natural compounds Identification of an Anti-peptic ulcer
18SPCH07	Ponananthi V	A current therapeutic inhibition of an Alzheimer's disease using a natural Phytochemical compounds.
18SPCH08	Maria Antony Vasanthi A	Synthesis and Characterisation of Corrosive resistant Gelatin-Iron Zirconia Biocomposite
18SPCH10	Rayani Nivethitha P	A study of Antioxidant and Antibacterial activity using Honey mediated Chromium oxide nanoparticles and its characterisation.
18SPCH11	Renisha R	Eco-friendly synthesis of Zinc sulphide Nanoparticles using <i>Carica papaya</i> Leaf extract, its characterisation used as Bio-sensor.
18SPCH12	Shelciya S	Synthesis and Characterisation of Ferromagnetic Cobalt Ferrite nanoparticles using Reverse Micelles
18SPCH13	Shenbagavalli V	Photocatalytic activity of green synthesis TiO <sub>2</sub> nanoparticles using <i>Manilkara zapota</i> leaf extract and its Characterisation.
18SPCH14	Subha K	An Appraisal of Natural Inhibition of Diabetes Mellitus.
18SPCH15	Vaishnavi J	Super paramagnetic Ferrihydrite nanoparticles synthesis assisted by Reverse micelles.

## MOOC & NPTEL

Rajarathna J of II M. Sc. Chemistry attended MOOC course titled, Food Chemistry with subject code coe19-ag04 in the duration of 12 weeks (September - December 2019)

The students of II M. Sc. Chemistry attended MOOC course titled, Basics in Inorganic Chemistry with subject code noc20-cy03 in the duration of 4 weeks (January - February 2020)



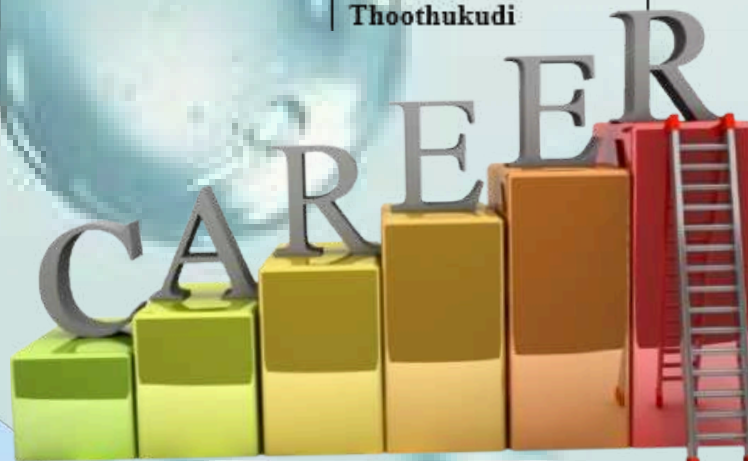
S. No	Register Number	Name of the Students	Percentage
1	19SPCH01	Linga Prabha L	57
2	19SPCH02	Makreena J	60
3	19SPCH04	Snowbiya E	57

## HIGHER EDUCATION

Register No.	Name of the Students	Name of the Programme admitted to	Name and Place of the Institution joined
18SPCH07	T. Kowsalya	Bachelor of Education (B.Ed.)	Muthukaruppan Memorial College of Education, Ottapidaram
18SPCH11	R. Renisha	Bachelor of Education (B.Ed.)	Dr. Sivanthi Aditanar College of Education, Thirucendhur

## PLACEMENT

Register No.	Name of the students	Name and Place of the Organisation Appointed	Appointed as	Pay package at the time of Appointment
18SPCH10	Rayani Nivethitha P	CSIR-CECRI, Karaikudi.	Project Associate	Rs. 25,000/-
18SPCH12	Shelciya S	Suganthi Devadason Marine Research Institute, Thoothukudi	Junior Research Fellow	Rs. 15,000/-



श्रीमन्मन्त्रालय विज्ञान प्रविष्टि विभाग द्वारा  
**CSIR - CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE**  
 (एनएसटी तथा औद्योगिक अनुसंधान परिषद/ Council of Scientific & Industrial Research)  
 कार्यालय/ KARAIKUDI-625 105. डी/Date: 24.08.2021

संख्या/ HSY/CECRI/MEMORANDUM  
 विषय/ Sub: परियोजना में सहयोग करने की संज्ञिका - जे एनए ए  
 Engagement of Project Personnel in the Project- Reg.  
 संदर्भित: इस संदर्भित का संख्या सं. H/136/4/50 offer letter  
 No.07-99/1/12065-B&C dated 18.08.2021.

इस संदर्भित के अंतर्गत संबंधित अंशक एवं में दिए गए निर्देश एवं शर्तों को स्वीकार करने के उपरान्त  
 इसी की प्रतिलिपि, परियोजना कोषिका - 1 में उल्लेख सं. के साथ जहाँ लिखे की संख्या में लिखित  
 परियोजना में सहयोग करने हेतु प्रेषित किए हैं। / Having accepted the terms and conditions of  
 the offer of engagement made vide this Office letter cited at reference above, Ms. P. Rayani  
 Nivethitha, Project Associate - I has reported for duty in this Institute in the project on the  
 respective date as mentioned against his/her name:

क्र. सं./ Sl.No	नाम एवं पदनाम/ Name & Position पद/Post	प.सं./ ID No.	परियोजना सं./ Project No.	संयोजन कार्य की दिनांक/Date of joining	काल / Duration	दरि मास वृत्ति/ Stipend per month
1.	P. Rayani Nivethitha Project Associate - I	82517	CEP-005-N	23.08.2021 To 22.02.2022		₹ 25,000/-

उम्मीदवार/शर्तिका तथा स्वयं उम्मीदवार द्वारा का किया है/ He/She has produced the  
 required Character and Medical Fitness Certificates.

अग्रणी अधिकारी/ Section Officer (मंत्र./विज्ञ.)

संकेत/To  
 इसी की प्रतिलिपि / Ms. P. Rayani Nivethitha  
 परियोजना सहयोगी / Project Associate - I, I.D. No. 82517

प्रतिलिपि/ Copy to:  
 1. डॉ. डी. मणिमय्य, परियोजना नेता/ (Dr. J. Maniyanan, Project Leader)  
 2. वि.सं.अ./ FAO 3. अ.सं.अ./ S.O.(B) 4. लिपि सहायक/ Hindi Section 5. परियोजना अधिकारी/ Office Copy  
 6. अन्य उम्मीदवार - उम्मीदवार को के माध्यम से/ Other sections through Bulletin board.

PASS PERCENTAGE  
100%