



ST. MARY'S COLLEGE (AUTONOMOUS)

RE-ACCREDITED WITH 'A' GRADE BY NAAC
THOOTHUKUDI- 628001, TAMIL NADU

PG DEPARTMENT OF CHEMISTRY

NEWSLETTER
Academic Year 2020-2021



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.

- We have successfully organized a workshop, a webinar and a three-day National Faculty Development Program, providing platforms for scientific exchange and professional development.
- Our students have presented their papers in various conferences and seminars.
- Four students have published their research papers in SCOPUS indexed Journals.
- Our students have shown outstanding performance in MooC exams with Elite & Elite+ Silver grades, further enhancing their skills and knowledge.
- One of the faculty members has been appointed as a Doctoral Committee Member for Ph.D. scholars at PG and Research Department of Chemistry, V.O.Chidambaram College, Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli.
- One of the staff has acted as Resource person.
- Our staff members have received Awards from various Academic bodies.
- 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.

DEPARTMENT ACTIVITY

On June 15, 2020, a workshop titled "Research: Career Opportunities for Life Sciences - India and Abroad" was conducted, providing insights into career pathways for students in the life sciences domain. Dr. Prithiviraj Nagarajan, a Research Scientist at the Multi-Disciplinary Centre for Biomedical Research, Vinayaka Missions Research Foundation, Puducherry, served as the resource person. Held on Google Meet, the session reached a wide audience, with 331 participants benefitting from the event. A recording of the session was made available on YouTube.

On July 17, 2020, a webinar titled "Enticing Ways to Reinvent Basics of Nanoscience" was organized to explore innovative approaches to teaching and understanding nanoscience. The session was led by Dr. N. Ponpandian, a Professor and Head of the Department of Physics at Bharathiar University, Coimbatore. Conducted via Google Meet, the webinar engaged 215 participants and provided a platform for advanced discussions on the topic.

A three-day National Faculty Development Program (FDP) was conducted from November 6 to 8, 2020, focusing on "Online Teaching & Learning Tools." The FDP featured multiple resource persons, including Ms. Mrudula Jadhav, Ms. Pranali Deshmukh, and Dr. Rupali Bhujangrao Memane from Arihant College of Commerce & Science, Pune. The sessions were hosted on Google Meet and recorded for wider access via YouTube. This program drew a remarkable 578 participants, enhancing their teaching methodologies in online education.

BOARD OF STUDIES

The Board of Studies Meeting of the P.G. Department of Chemistry was conducted on 27th February 2021 at 10.00 a.m. in the Department of Chemistry. The subject expert of the board was Dr. K. Muthu, Assistant Professor of Chemistry, Manonmaniam Sundaranar University, Tirunelveli and the university nominee was Dr. A. Gomathi, Associate Professor of Chemistry, Sri KGS College, Srivaikundam, Thoothukudi. The Syllabus was designed in the pattern of Outcome Based Education with Choice Based Credit System. The board acknowledged and approved the set pattern.



St. Mary's College (Autonomous)
(Re-accredited with 'A+' Grade by NAAC)
Thoothukudi-628001, Tamilnadu.

PG Department of Chemistry (SSC)
organises

One day Workshop on
**Research: Career Opportunities
for Life Sciences -
India and Abroad**

Date : 15.6.2020 Time : 10.00 to 11.30 a.m

Resource Person
Dr. Prithiviraj Nagarajan,
Research Scientist,
Multi-Disciplinary Centre for Biomedical Research,
Vinayaka Missions Research Foundation
(Deemed to be University),
Puducherry-607403.

Registration Link:
<https://forms.gle/Yq4Lv25hgkUcTkx7>

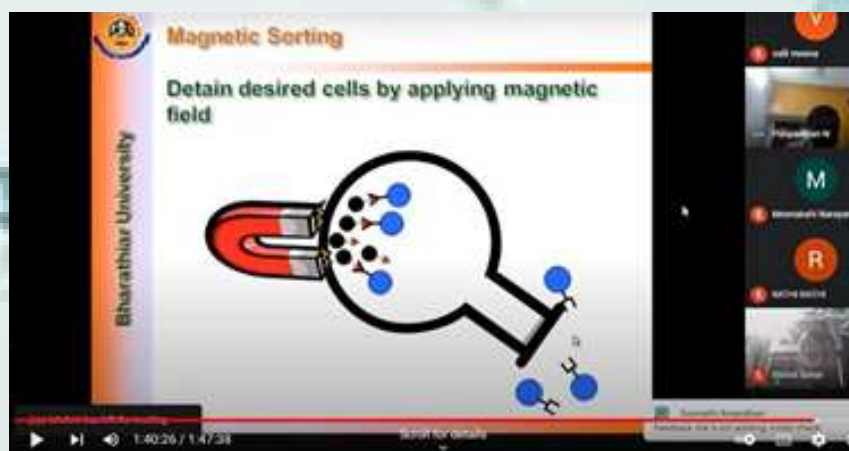
No Registration Fee.
E- Certificate will be provided.

Who can participate:
Students of UG (final year), PG, M.Phil. &
Research scholars

With Special Wishes from
Dr. J. Jagan Mohan
Secretary
Dr. A. S. J. Socio Pathi
Principal
Sr. F. Mary Joyce Baby,
Director(SSC)

Chairman
Dr. J. Anthony Kumar
Coordinator, Department of
Chemistry(SSC)

Organising Committee
Dr. C. Zedmir Divya Lobo
Ms. K. Saravanadevi
Ms. D. Carolin Jeniba Rachel



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 24.03.2021.



STAFF ACTIVITIES

Name	Publication				Conference	Seminar / Webinar	Workshop	FDP
	Book	Paper	Proceeding	Chapter				
Dr. J. Antony Rajam	2	5			1	43	4	8
Dr. C. Zozimus Divya Lobo					3	19	3	4
K. Saravanadevi		1	2		5	16		6
D. Carolin Jeniba Rachel		1		1	2	25	3	8

RESOURCE PERSON

Dr. J. Antony Rajam - Doctoral Committee Member for Ph.D. scholars at PG & Research Department of Chemistry, V.O.Chidambaram College, Thoothukudi affiliated to Manonmaniam Sundaranar University, Tirunelveli

Dr. C. Zozimus Divya Lobo gave a talk on "How to ace your summer internship" organized by Intershala on 12th March 2021.

HONORS & AWARDS

Name	Title of the Award	Presented by	Year
Dr. C. Zozimus Divya Lobo	Best Doctoral Researcher	Archers & Elevators Publishing House	2020
Dr. J. Antony Rajam	Best Editor Award	Multi Spectrum Publications	25 th May 2021



MOOC & NPTEL

The students of I M. Sc. Chemistry attended MOOC course titled, Laser: Fundamentals and Applications with subject code noc20-cy17 in the duration of 8 weeks (September - November 2020)

The students of I M. Sc. Chemistry attended MOOC course titled, Industrial Inorganic Chemistry with subject code noc21-cy26 in the duration of 12 weeks (January - April 2021)

S. No	Register No.	Name of the Students	Percentage
1	20SPCH01	Amirtha M	58
2	20SPCH04	Malini V	55
3	20SPCH05	Mareeswari S	83 (Elite+Silver)
4	20SPCH06	Sowmiya A	57
5	20SPCH07	Subidsha Sivarangini M R	50



S. No	Register Number	Name of the Students	Percentage
1	20SPCH02	Antony Magdaline Albright A	60 (Elite)
2	20SPCH03	Evangelin Preethi A	53



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
S MAREESWARI
for successfully completing the course

Laser: Fundamentals and Applications

with a consolidated score of **83** %

Online Assignments	21.54/25	Proctored Exam	61.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 134


 Prof. Rajesh M. Hogde
Chairman, Centre for Continuing Education
IIT Kanpur


 Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Sep-Nov 2020
(8 week course)

STUDENTS ACTIVITIES

PUBLICATIONS

Four students had published four research papers with DOI number in **SCOPUS indexed Elsevier Journal**.

WEBINARS/SEMINARS

Students participated in a variety of webinars held from June to December 2020. These included state, national, and international-level events covering topics such as Research Career Opportunities, Medicinal Chemistry, Nanomaterials, Biosensors, Supramolecular Chemistry, Nanoscience, Bioinformatics, and Career Planning. Key events included:

- Advanced Materials (June 3, 2020), Nanomaterials (June 6, 2020), Graphene-Based Nanocomposites (June 1, 2020), and Nanomagnetism (June 22-23, 2020).
- Other popular topics were Biodiesel from Marine Algae, Bioinformatics Tools, and Supramolecular Chemistry.
- Participation varied from 2 to 9 students per event, with institutions such as St. Mary's College, V.O. Chidambaram College, Sadakathula Appa College, and others hosting the webinars.
- Challenges for Gen-Next Scientists Seminar (March 1, 2021), organized by St. Mary's College.
- Intellectual Property Rights and IP Management for Startups (March 16, 2021), which provided insights into intellectual property issues in scientific and entrepreneurial ventures.

CONFERENCES

Several conferences provided students with opportunities to engage with experts and researchers. Notable conferences included:

- International Conference on Advanced Materials (June 3, 2020), organized by LRG Government Arts College.
- International Webinar on Nanomagnetism (June 22-23, 2020), and Material Synthesis and Characterization (IWMSC-2020) (July 11-13, 2020).
- National Conference on Intellectual Property Rights and IP Management for Startups (March 16, 2021), organized by St. Mary's College. Participation ranged from 4 to 7 students per conference.

WORKSHOPS

Students attended several workshops aimed at skill development and career planning, including:

- Skill-Based Training Workshop (January 29-30, 2021), organized by St. Ignatius College of Education.
- Workshops on Research Career Opportunities (June 15, 2020) and Nanoscience Basics (July 17, 2020), which helped students explore potential career paths and research opportunities.



A study of antioxidant and antibacterial activity using honey mediated Chromium oxide nanoparticles and its characterization

P. Royani Nivethitha, D. Carolin Jeniba Rachel¹ ✉

Department of Chemistry (SSC), St. Mary's, College (Autonomous), Thoothukudi 628003, India

Received 4 April 2020, Revised 3 June 2020, Accepted 10 July 2020, Available online 25 September 2020, Version of Record 7 January 2022.

What do these dates mean?

Show less

Add to Mendeley Share Cite

<https://doi.org/10.1016/j.matpr.2020.07.187>

Get rights and content



Eco-friendly synthesis and characterization of cobalt oxide nanoparticles by sativum species and its photo-catalytic activity

G. Asha^a, V. Rajeshwari^b, G. Stephen^c, S. Gurusamy^d, D. Carolin Jeniba Rachel^{a,d} ✉

^a Department of Chemistry, St. Mary's College (Autonomous), Thoothukudi 628001, affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli - 12, Tamil Nadu, India

^b Department of Chemistry, V.O. Chidambaram College, Thoothukudi 628008, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli 627-012, Tamil Nadu, India.

^c Department of Chemistry, Bharathidasan University (Centre for Distance Education), Palkalaperur, Tiruchirappalli 620034, India.

^d Assistant Professor, Department of Chemistry (SSC), St. Mary's College (Autonomous), Thoothukudi 628003, Affiliated to Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli 627-012, Tamil Nadu, India

Received 12 April 2020, Revised 7 August 2020, Accepted 10 February 2021, Available online 12 March 2021, Version of Record 7 January 2022.

What do these dates mean?

Show less

Add to Mendeley Share Cite

<https://doi.org/10.1016/j.matpr.2021.02.419>

Get rights and content



PG PROJECTS

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

Register No.	Student's Name	Project Title
19SPCH01	Linga Prabha L	An Inhibition study of Diabetes
19SPCH02	Makreena J	A study on a novel adsorbent for the removal of Copper ions from aqueous solution
19SPCH03	Rajarithna J	Synthesis and characterisation of Telluride nanoparticles
19SPCH04	Snowbiya E	Eco-friendly synthesis and characterisation of mesoporous Silica nanoparticles using agricultural waste

