

NEWSLETTER

2018 - 2019

ST. MARY'S COLLEGE (AUTONOMOUS)
RE-ACCREDITED WITH 'A+' BY NAAC (4TH CYCLE)
THOOTHUKUDI- 628 001, TAMIL NADU



PG DEPARTMENT OF PHYSICS



MESSAGE FROM THE CO-ORDINATOR

The essence of life, the beating heart of creation, and the hand that leads us to the highest level of perfection is harmony.

As we begin this academic year, which is devoted to the noble theme of "Harmony," we are encouraged to think carefully on the atmosphere of harmony and togetherness that exists within our academic community. Similar to how the principles of physics demonstrate the underlying harmony in the universe, we must work to create a balanced environment in our department where each person's contributions blend into a flawless whole.

To every member of our distinguished department, I offer my heartfelt best wishes and blessings. I hope that in addition to academic growth, this year brings about deep peace and mutual support. May the Almighty lead us, bless our efforts, and give us the discernment to foster peace.

With blessings and best wishes,
Ms. P Padmavathi

EDITORIAL TEAM



Mrs. P. Padmavathi
Assistant Professor

Mrs. P. Dhanalakshmi
Assistant Professor

Mrs. Y. Sasikala
Assistant Professor

Mrs. A. Nirmala Shirley
Assistant Professor

Mrs. L. Smila
Assistant Professor

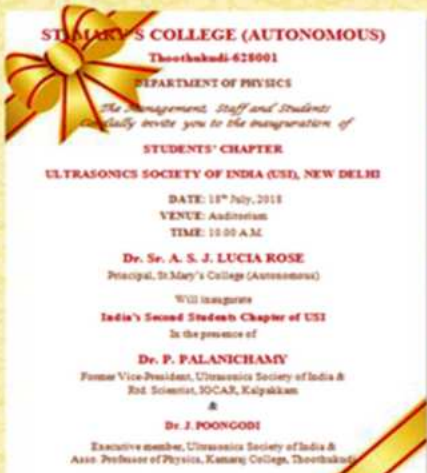
ACTIVITIES OF THE ASSOCIATION

Numerous events that have benefited the students have been organized in large part by the Physics Association. In addition to improving the educational experience, these programs have helped students develop a feeling of belonging and friendship.



INAUGURAL FUNCTION OF THE STUDENTS' CHAPTER, USI

The Department of Physics, conducted the inaugural function of the Students' Chapter of the 'Ultrasonics Society of India' (USI), New Delhi, on 18th July 2018.



PHYSCOM-2018

An Inter-school quiz competition PHYSCOM-2018 was conducted on 24.08.2018.



A Skill Development Programme on "Smart Phone Servicing" in association with New Technology, Coimbatore, on 28th and 29th September 2018.

Ms. S. Shanmuga Priya, Mr. K. Karthik, Ms. P. Manimegalai, Ms. R. Ranjitha and Mr. N. Jefrin Paul Inbam of New Technology, Coimbatore were the resource persons.

HANDS ON TRAINING ON SOLAR APPLIANCES

A one-day hands on training was organised on “Solar Appliances” as a “Skill Development Programme” in association with C. M. Solar, Rajapalayam on 20th February 2019.

Mr. C. Muthukumar M. E., Propreitor of C. M. Solar, Rajapalayam, underlined the importance of solar power and gave training in solar power installation to about 80 students.

LECTURE ON SPIN RESONANCE SPECTROSCOPY

On 22.03.2019 Dr. Jebaraj Devadasan, Associate Professor and Head, Department of Physics, Pope’s College, Sawerpuram, gave a lecture on the topic “Spin Resonance Spectroscopy”. He gave an in-depth idea about the origin of Atomic and Molecular Spectra.



LAB ACTIVITIES



In order to give students practical experience in experimental physics, the department has carried out 96 lab activities. Through these activities, they have developed a spirit of scientific inquiry and exploration in addition to honing their practical skills.

MENTOR-MENTEE SYSTEM

With 16 and 9 students in their first and second years respectively, benefiting from the direction and assistance of seasoned faculty members, the Mentor-Mentee System has been a huge success. This project has produced a supportive atmosphere that fosters innovation, creativity, and academic progress.

S.No.	DATE
1	07.09.2018
2	05.10.2018
3	22.10.2018
4	26.10.2018
5	07.12.2018
6	14.12.2018
7	21.12.2018
8	18.01.2019
9	25.01.2019
10	01.02.2019
11	08.02.2019

BOARD OF STUDIES

Three specialists from outside, Dr. S. Shailajha, Dr. J. Jebaraj Devadasan, and Dr. Therese Pushpam, attended the Board of Studies meeting on February 16th 2019, and the department has effectively implemented the Outcome-Based Education (OBE) framework and the Choice-Based Credit System (CBCS). This has guaranteed the academic programme's flexibility, accountability, and student-centric approach.



PTA



Parents have been able to interact with the department, exchange experiences, and create lasting relationships through the Parent-Teacher Association meetings, which was conducted on August 11th 2018, for students in the second year.

ALUMNAE MEET

On March 2nd 2019, the Alumnae Meet gave alumni a chance to get back in touch with the department, talk about their experiences, and build deep relationships with instructors and current students.



STAFF ACTIVITIES

RESEARCH PUBLICATIONS / PRESENTATIONS

- Mrs. A. Nirmala Shirley has published 3 papers in UGC care listed journals.
- Mrs. A. Nirmala Shirley presented a Poster on Structural and Optical Properties of Sprayed ZnS Thin Films in the National conference on energy materials organised by Department of Physics, M. S. University, Tirunelveli held on 28th and 29th of June 2018.



- Mrs. P. Dhana Lakshmi presented a poster in WEPAC 2018 organised by National Physical Laboratory, New Delhi from 11th to 15th November 2018.
- P. Padmavathi presented a paper on the topic “Evaluation of thermodynamic parameters of sea water at different temperature through ultrasonic studies” organised by National Physical Laboratory, New Delhi from 11th to 15th November 2018.

STAFF ACTIVITIES

PARTICIPATION IN RC/OC/SEMINARS/WS

- Mrs. Y. Sasikala participated and Mrs. P. Dhana Lakshmi participated in 2 National Seminars and 2 workshops.
- Mrs. L. Smila participated in one National Seminar and one workshop during this academic year.
- Mrs. P. Padmavathi participated in one International Conference and 2 workshops.
- Mrs. A. Nirmala Shirley participated in one National Conference during this academic year.

E CONTENTS

Our department staff members have produced 2 e contents to enhance the learning ability of the students.



EDUCATIONAL TOUR/ IV REPORT

Students visited the Thermal Power plant , as field visit .This hands-on exposure enriched their learning experience and highlighted the importance of physics in diverse industrial domains.

STUDENTS ACHIEVEMENTS

- Reshmina Tony A. of IInd M.Sc., Physics presented a talk on “Women Leaders” in a Leadership training workshop on the 20th and 21st of August 2018 conducted by St. Marys’ college, Thoothukudi and she secured the 1st place.
- Reshmina Tony A. of IInd M.Sc., Physics secured IInd place for the paper presentation on the topic “Graphene – A nanomaterial” in Physcon 2018-2019 conducted by the department of Physics, St. Xavier’s college, Palayamkottai on the 6th of September 2018.
- Infant FrancitaFonseka of Ist M.Sc., Physics presented a paper and stood IInd in the PHYSKNIT’18 conducted by the Research centre of Physics, Fatima College, Madurai on the 26th of September 2018. Reshmina Tony A. of IInd M.Sc., Physics attended the seminar as well.
- A. Nandhini Surya, H. Diloslin, A. Kishore Shernika of II M.Sc Physics presented papers in the state level seminar on “Innovative insights in ultrasonic methods(IIUM)” organised by Ultrasonic Society of India (USI) Students’ chapter III, Department of Physics, Kamaraj College. A. Nandhini Surya won the best oral presentation award.
- Umarani p. and Manimegalai U. of II M.Sc., Physics represented St. Mary’s college, Thoothukudi held at Sarah Tucker College, Tirunelveli from 27.09.2018 to 29.09.2018 and secured third position.



NO. OF PROJECTS

16 projects have been completed by II M. Sc students , demonstrating their research work and problem solving skills.

PASS PERCENTAGE

100% results have been achieved for the year 2018-2019.

HIGHER EDUCATION

3 students have stepped into PhD and 3 are pursuing their B. Ed in reputed institutions.