

## **PG & RESEARCH DEPARTMENT OF PHYSICS**

### **ASSOCIATION LONG REPORT 2019-2020**

The Department of Physics evolved as one of the leading Department for its advanced courses and cutting-edge research in Physics. The Holy Cross Physics Association aims to help the students in the advancement, dissemination and application of the knowledge of Physics. Dr. V. Vasumathi and Ms. G. Arockiya Diana took charge as the staff secretaries for the academic year 2019-20. A business meeting was held on 3<sup>rd</sup> July 2019 and the following students were selected as office bearers.

Ms. A. Janus Fortuna- III B.Sc., Physics- President

Ms. S. GokulaPriya-II M.Sc., Physics- Vice President

Ms. M. Vidhushinei-II B.Sc., Physics-Secretary

The activities of the Physics Association for the academic year 2019-20 was inaugurated on 4<sup>th</sup> July by Dr. S. Brahadeeswaran, Professor and Head, Department of Physics, University College of Engineering, BIT Campus, Anna University, Trichirappalli-24. He addressed the gathering on the topic "Crystals and Nanocrystals: Structure, properties and applications".

To Commemorate Dr. A. P. J. Abdul Kalam's death Anniversary, the Department of Physics conducted an inter-departmental speech competition on the topic "The role of students in fulfilling the Dr. APJ Adbul Kalam's dream" and documentary on "From Rameswaram to Rastrapati Bhavan" on 27<sup>th</sup> July 2019. II M.Sc., students went to an educational tour to Vishakapattinum during 21<sup>st</sup> August to 24<sup>th</sup> August 2019. They visited our Nation's leading Defence Research and Development Organization (DRDO), Naval Science and Technological Laboratory (NSTL), INS Kurusura submarine museum, TU 142 Aircraft museum and Ananthagiri hills. On the same day the III B.Sc., physics went on an educational tour to Bengaluru and Mysuru, where they visited, Visvesvaraya Industrial & Technological Museum, Zoological and botanical Gardens and historical temples and church.

To inculcate the basic human values, a session on the importance of human values was organized on 26<sup>th</sup> August 2019. Advocate J. Jayachandran was the chief guest. The Physics Association successfully conducted the intercollegiate Physics contest "HYPHY'19" on 17<sup>th</sup> September 2019. There were about 235 participants from 10 institutions. Lady Doak College, Madurai crowned as the overall winner while Jamal Mohamad College,

Tiruchirappalli bagged the Runner-up rolling trophy. As a part of Skilled based Elective course: “Physics For life Science” a field visit to GVN Hospital and AG eye Hospital was arranged for II B. Sc., Zoology and III B. Sc., Botany students in September 2019. On 10<sup>th</sup> December Dr. T. Preethi Pushkarini, Medical Officer, Govt. KAPV Medical College Hospital, Trichy addressed the gathering on the topic "Women and Nature". On 19<sup>th</sup> January 2019 National Graduate Physics Examination was conducted for the undergraduate students by the Indian Association of Physics Teachers.

Dr. A. Antony Raj, Assistant Professor, Department of Physics, St. Joseph’s College, Trichy delivered the talk on the topic “Physics competitive examination: An insight” on 22<sup>nd</sup> January 2020. The session provides a guidance to the students about the opportunities available after graduation and their related entrance examinations.

In the month of January our department conducted coaching classes for II-JAM exams. A time table was made and different topics were assigned to individual staff members for IIT-JAM coaching classes. Under the MOU signed with SHELL industries, a one-day lecture on the topic “Renewable Energy Resource” in October 2019 was delivered by Mr. Michael Judy. In the continuation of lecture on Renewable energy resource, he also showed the practical demo about solar battery in February 2020 to the final year under graduate students.

A three-day Winter school on Computational Modelling (WISCOM-2020) organized during 27<sup>th</sup> -29<sup>th</sup> February 2020. There were 53 participants from Universities, Arts and Science Colleges and Engineering Colleges of various parts of Tamilnadu attended this WISCOM-2020. Among them they were Assistant Professors, M.Phil and Ph.D Scholars and M.Sc students. In this WISCOM-2020, the well-thought schedule allowed the participants to first learn the basic concepts through lectures and thereafter solving exercises with the use of computational software packages under the supervision of experts.