



SPECTRUM 2020-2021

Annual Newsletter

Department of Physics
Holy Cross College (Autonomous)
Nagercoil-629004



Re-accredited by NAAC with A Grade with a CGPA of 3.34
Affiliated to Manonmaniam Sundaranar University, Tirunelveli

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HOD's Message

Greetings!!!

Welcome to the department of Physics at Holy Cross College (Autonomous), Nagercoil. Department of Physics is one of the largest departments in Holy Cross College with 11 faculty members and 144 undergraduates, 50 masters, 10 MPhil scholars and many research scholars. Our continuous commitment to our students is helping them to learn, grow, develop, and achieve their goals and to excel in their professional career.



The department was established in the year 1966 and doctoral programmes are available in key areas of Theoretical Physics and Experimental Physics. The department strives to provide a conducive environment for the students to develop analytical and practical skills and apply them to real world problems. To motivate the students, the department organizes workshops, National & International Conferences periodically.

We welcome you to the Physics Department as undergraduate or post graduate or research student and we hope to be a part of your success.

With Best Wishes

Dr. C. Nirmala Louis M.Sc., Ph.D., PGDCA

High Fliers

The best out gone students of the academic year 2019-2020



R.Feyolah Herin
B.Sc Physics

P. Vasantha Venus
M.Sc Physics

P. Abisha
M.Phil Physics

Adding feathers to the Crown



Dr. Krishna Priya has been awarded the best oral presentation award in the International Virtual conference & Recent Trends In Innovations in science and Technology entitled "Synthesis and characterization o the fibre material derived from the peduncle part of Artocarpus hetrophyllus " awarded by Senthil Research Advocacy Forum and PEARL-A Foundation for Educational Excellence, Bengaluru.

Academic Engagement

Faculty Development Programme



A four day faculty development programme was organized on “Recent Trends in Physics from 3-06-2020 to 06-06-2020. Dr R. T. Rajendra Kumar, Department of Nanoscience and Technology, Bharathiar University, Coimbatore presented the importance and applications of Bio-Sensors on 3-06-2020. On 04-06-2020 K.Viswanathan, Professor, Department of Physics, Kalasalingam University presented a clear view on “UHE and VHE Gamma Ray Astronomy Experiments in India”. Dr.A.Stephen, Professor, Department of Nuclear Physics, University of Madras, gave a presentation on “Nuclear Physics”. Dr.N.Ponpandian, Professor, Department of Nano science and technology, Bharathiyar University, Coimbatore gave a talk on Magnetic Materials.

Enhance your preparation to precision

To consider and approve the scheme and syllabus for B.Sc and M.Sc, the board of studies meeting was held on 29.01.2021. The teaching faculty of the Physics department along with Dr .I .Hubert Joe, Associate Professor, Department of Physics, Kerala University, the Univeristy nominee, Dr. G. Dheva Shantha Kumari, Associate Professor, Fathima College, the subject expert, Er.Arul Jerald Prakash, Former Directore, Kerala Science and Technology museum and Priyadharshini Planetarium , the industrialist and Ms. P. Abisha, the alumna participated in the interaction . As per the suggestions given by the experts, minor ratifications has been carried out



Endowment Lecture

Sr. Rosamma's Endowment Lecture was conducted on 13.02.2021. Dr. K. Navaneethakrishnan, Former Head & Coordinator School of Physics, Madurai Kamaraj University, Madurai gave a talk on 'Career in Physics' which enables the students to gain knowledge on various opportunities prevailing in the field of Physics



IAPT EXAM



Thirty four physics students from the department of Physics, Holy Cross College participated in the Indian Association of Physics Teachers- National Graduate Physics Examination (IAPT-NGPE) organized by Indian Association of Physics Teachers conducted on 24.01.2021. Students were able to assess their level of understanding the concepts of Physics.

Physics Association Meeting

To inculcate and promote the advancement, dissemination and application of the knowledge of physics, the Physics association was held on 23.02.2021. Er.Arul Jerald Prakash, Former Director, Kerala Science and Technology museum and Priyadharshini Planetarium delivered a talk on innovations and the Origin of Indian Scientists.



E-Fests

E-Quiz

- Online quiz programme has been conducted on 16-6-2020 in connection with the international day of light.
- In Commemoration of Hiroshima and Nagasaki day an online quiz programme has been organized on 03-08-2020
- In Commemoration of the birthday of Dr.Vikram Sarabhai, the Great Indian Physicist &Space Scientist, an E- Competitions on Space Science was conducted for School and College Students on 12-08-2020



E-Conference

- Sahaya Deebika, Research Scholar (M.Phil) presented a paper in the national e-conference on Advanced Research in Materials Science organized by Kamaraj College, Tutucorin.

E-Forum



- J.Jinlin Jeya and Asnia of III B.Sc attended the live interactive session on "Seedling Nano-science in Young minds" with Nano-Scientists, organised by SRM institution, Kattankulathur.
- Webinar on Ozone and climate change was organized on 16-09-2020
- Webinar on Intellectual Property was organized on 28-11-2020

And the winners are.....



M. Asnia and V.Biolin Vabisha of III B.Sc Physics won the third prize in the National Science Day Celebration state level quiz competition organized by the department of Physics on 03-03-2021, Vivekananda College, Agasteeswaram, Kanyakumari District.

Research Endeavours

Approved research guides.

- Dr. Sr. Gerardin Jayam
- Dr. Mary Delphine
- Dr. C.Nirmala Louis
- Dr. V. Shally
- Dr. A. Lesly Fathima
- Dr. M. Priya Dharshini
- Dr. R. Krishna Priya
- Dr. S. Sonia

Scientific Impact

- ❖ Publications in Scopus Indexed Journals : 9
- ❖ Publications in Web of Science :4
- ❖ Paper Presented in International Conferences:7

Editorial Members

Dr. C.Nirmala Louis

Ms. S.J. Jenepha Mary

Reminiscences and Reflections

Planting saplings.....



A tree has roots in the soil yet reaches to the sky.
It tells us that in order to aspire we need to be grounded
and no matter how high we go it is from our roots that we
draw sustenance.- *Wangari Maathai*

The moment may be temporary, but the memory is forever



Coming together is a beginning, Staying together is progress, and working together is success- Henry Ford

