

Research Day



Research being the impetus of higher education, Sacred Heart College is continuing to strengthen its research cell and has been extending it vigorously across all departments. To mark this glorious achievement of dedicated research from staff and students, a maiden effort was made last year on 15/12/2018 to honour and show case the research carried out by the college. As a sequel to it, this year the Sacred Heart's Research Day was celebrated on 13/12/2019 in the Kamarajar Arangam at 2.45 p. m.

The Chief Guest for this memorable moment was, the most esteemed Prof. Dr. P. Kolandaivel, the Vice Chancellor of Periyar University, Salem. All the staff, PG and UG students participated in this celebration. Rev. Dr. C. Antonyraj, the Rector, introduced the chief guest and welcomed the gathering. Rev. Dr. D. Maria Arokiaraj, the Additional Principal, Shift-II presented the research credentials of the college.

Rev. Dr. D. Maria Antony Raj, the Principal, declared the results of the departments that have excelled in research. Dr. M. Jose, the Dean of Research, released the online journals of various departments. It was followed by the presentation of the research activities of all the departments. Rev. Dr. G. Theophil Anand, Vice Principal, (Admin) Shift-II introduced and launched the online portal for the Young Innovator Award to be hosted by Sacred Heart College on 28th February 2020. Prizes were given to the staff and students from arts and science departments for publishing papers in Scopus and CARE. The best department for research was awarded to both arts and science departments. The best research award for faculty of arts was given to Dr. K. Parthibaraja, Department of Tamil. The best research award for faculty of science was given to Dr. G. Britto Antony Xavier, Department of Mathematics. The best research award to scholars were given to Mr. M. Meganathan, Rev. Fr. Sajan M. George and Mr. A. Sivakumar. The best Department of research for arts was awarded to the Department of Tamil. The best Department of research for science was awarded to the Department of Mathematics.



The Chief Guest in his address admired and appreciated the efforts of the management and the staff for their sincere efforts. He spoke on how research is performed and understood globally. Further, he said that, success doesn't depend on where one comes from, it depends on the inner urge to achieve. Mr. D. Henston, Assistant Professor, Department of English, inspired the audience with his team singing the youth song. The vote of thanks was delivered by Dr. Clayton Michael Fonceca, Assistant Professor, Department of Social Work. He thanked the administration, the staff and the students, for their excellent support towards the growth of the institution.

SEPARC – 2018

The First Seminar on **Skill Enhancement Programme for Academicians and Researchers in Computer Science** (SEPARC 2018) was held on 24th and 25th August, 2018. The inaugural session was presided by Rev. Dr. D. Maria Antony Raj, Principal. In his address he insisted on the importance of updating the knowledge in the field. Prof. John Arockiaraj, Associate Professor, Department of Computer Science Shift I, Sacred Heart College, Tirupattur welcomed the gathering and briefed on the Seminar and Mr. Franklin, Student Secretary, Department of Computer Science extended his words of gratitude. Around 100 delegates comprising of Academicians, Researchers and Students of the Computer Science, Computer Application and Com-

puter Science Engineering departments from various colleges were present and gave their complete participation in the Seminar.

The first day consisted of the invited talks by Dr. D.I. George on "Research Avenues in Computer Science", Dr. L. Arockiam on "External Funding for Major / Minor / Seminar / Conferences", Dr. E. George Dharma Prakash on "Enterprise of Things" and by Dr. S. Sagayaraj on "Cognitive Computing", with this the proceedings of the day was completed.

At the end of the first day there was a photo session with all the esteemed delegates. The proceedings of the day – II was handled by Dr. L. Ravi on "Knowledge Representation Techniques", Prof. B. Ramya on

"Quality Perspective through IQAC", Mr. Anandharaj Wilson on "Virtual Network Functions Life Cycle Management" and Dr. F. Francis Sagayaraj on "Deep Learning". The sessions were followed by the valedictory function presided by Rev. Dr. Maria Arockiaraj, Additional Principal, Sacred Heart College, Tirupattur, in which he stressed on the importance of innovative ideas in Information Technology. He delivered the Valedictory address to the delegates featuring the importance of innovative ideas in Information Technology. Mrs. A. Josephine Sahaya Mala, Head Department of Computer Science (shift II) and Vice Principal (Academics– shift II) presented the seminar report. The Seminar concluded with the National Anthem.



ART OF PUBLISHING RESEARCH ARTICLES IN HIGH IMPACT JOURNALS



The Research Cell, Sacred Heart College organised a special input session on the Art of Publishing Research Articles in High Impact Journals on 14th September, 2022. The Doctoral Research Scholars and PG Students attended the session. Dr. S. Sahaya Jude Dhas, Professor and Head, Department of Physics, Kings Engineering College, Sriperumbudur, Chennai was the resource person. He introduced the nuances of research communication. He also spoke about the different parameters to judge before communicating with the publishers. Dr. Nahren Manuel Mascarenhas, Dean of Research, Sacred Heart College coordinated the event.

INVITED TALK ON NANOSTRUCTURED MATERIALS-FUNDAMENTALS AND APPLICATIONS



The PG and Research Department of Physics (Shift II) organized the Invited Talk titled Nanostructured Materials-Fundamentals and Applications on 14th September, 2022. Dr. M. Jose, Head PG), Department of Physics welcomed the gathering and delivered the Inaugural address. Mr. C. Thirupathy, Head (UG), Department of Physics honored the speaker with a memento. Dr. M. Arivanandhan, Professor, Centre for Nanoscience and Technology, Anna University, Chennai was the resource person. The speaker gave an introduction to nanomaterials and explained its importance, uniqueness and its applications in diverse fields. He explained about surface to volume ratio and quantum confinement effects. He also presented about thermal, mechanical, optical and electrical properties of the nanoparticles and its properties. The speaker motivated the PG students for higher studies and spoke about the opportunities for research with fellowship. Dr. P. Kannappan, organizing secretary, delivered vote of thanks. About 57 PG Students, 15 Research Forum Students (Shift-II) and Research Scholars participated in the event.



Rev. Fr. P. A. THOMAS MEMORIAL LECTURE ON SUSTAINABLE FOOD TECHNOLOGY



Rev. Fr. P. A. Thomas Memorial Lecture on "Sustainable Food Technology" was organized by the Department of Chemistry (Shift I) on 14th September, 2022. The resource person for the event was Dr. D. Ravishankaran, Professor, National Centre for Nanoscience and Nanotechnology, Guindy Campus, Chennai-25. He spoke about the importance of nanomaterials, nanobiointerface, sensors and their application in food technology. Its role in food preservation, processing and in the agricultural sector was detailed. The employability of simple applications in the field of nanotechnology in everyday life was also discussed during this lecture. Dr.S.R. Xavier Rajarathinam, Head, Department of Chemistry (Shift I), Dr. Arokia Napoleon Raj, Head (UG), Department of Chemistry (Shift II), Dr. Collins Arun Prakash, Head (PG), Department of Chemistry (Shift II), the faculty members and students of the department graced the occasion.

Research Day' 2022



Research Day at Sacred Heart College continues to raise awareness and appreciation of research projects across departments, to encourage information sharing and idea sharing to support the growth of multidisciplinary efforts, and to instil research aptitude in faculty and students. Sacred Heart College has been aggressively expanding its research cell across all departments while also bolstering it. Every year, a Research Day is held to highlight the re-

search that the college's faculty and students have conducted. This year the wonderful results of the diligent research from faculty and students were honoured on **December 14, 2022**. The celebrations began at **10.30 a.m.** in the Kamarajar Arangam with a prayer song sung by the college choir. With a prayer, Rev. Dr. P. Gandhi Kallarasan invoked the Lord's blessings. Dr. K.P.J. Reddy, Emeritus Professor, Aerospace Engineering, Indian Institute of Science, Bengaluru, was the Chief Guest for this memorable occasion. This celebration was attended by all members of the faculty, graduate students, and research scholars. The Rector, Rev. Dr. John Alexander, welcomed everyone and introduced the main guest. He stated that education is not only about receiving but also about giving back to society. He advised the students to consider the great scientists who dedicated their lives to improve the society through research. Rev. Dr. K. A. Maria Arockiaraj, Additional Principal Shift II, presented the college's research credentials.

Dr. M. Nahren Manuel, the Dean of Research, called forth the Chief Guest to release the online journals of the Department of Tamil, Mathematics, Economics, Computer Science and Physics. Rev. Fr. Rector, Rev. Fr. Principal, Rev. Fr. Additional Principal, and the Vice Principal, all received the copies. Dr. M. Antony Arockiasamy, Assistant Professor of Mathematics, followed with the publication of books. The chief guest later declared open Researgence Software for research developed by Mr. Cedric Joseph, CEO, Cintellegince, Pvt. Ltd.

Rev. Dr. G. Theophil Anand, Shift - I presented the SHYIA (Sacred Heart Young Innovator Award) and SHYBIA reports (Sacred Heart Young Budding Award). Dr. Jude Vimal Michael, Assistant Professor of Chemistry, presented the Research Forum reports of each department. Dr. Martin Britto Dhas, Assistant Professor of Physics, delivered the 2022 Intellectual Property Rights report. The Principal, Rev. Dr. D. Maria Antonyraj, emphasized the significance of Research Day. He stated that such recognition of research achievements occurs only in prestigious institutions across the country. He asked everyone to contribute useful research so that the college could become a premier institution. The best research department in the arts was awarded to the Department of Tamil, and the best research department in the sciences was awarded to the Department of Mathematics. Dr. Martin Britto Dhas, Department of Physics, and Dr. K. Parthibaraja, Department of Tamil, received the faculty best research award. Mr. K. Siva Kumar, Department of Physics, received the best research award for research scholars. His name appears in the India Book of Records for having published 74 articles. Staff and scholars were recognized on stage for their contributions to Scopus-Indexed and UGC-Care-Listed Journals.



Sacred Heart Research Day

Research being the advancement of human intelligence and knowledge moulds the society in all dimensions. Sacred Heart College being one of the pioneers of imparting quality education has added another feather to its cap by strengthening its research cell and extending it vigorously in all dimensions. To mark this glorious achievement of dedicated research from staff and students, a maiden effort has been made to honour and show case the research carried out by the college to the world, thus making it a red-letter day in the history of the college.

Sacred Heart College celebrated its first Research Day on **15th, December**. The Resource Person for the day was Dr. D. Ravi Shankaran, Centre for Nano Sciences and Technology, University of Madras. All the staff, PG and UG third year students participated in the celebration. Rev. Dr. Maria Arockiaraj, the additional principal welcomed the gathering and introduced the resource person of the day. Rev. Dr. D. Maria Antonyraj, the principal of the college presented the research credentials of the Institute. The presentation briefed the history of how the research centre kick-started. Rev. Dr. C.M. Varghese, SDB was given the privilege of directing the research centre, then the baton was passed on to Dr. Jayabalan. The good work has been carried over to the next level with the able administration of Dr. M. Jose, presently. Dr. M. Jose, The Dean of Research, released the staff research profile book and online journals of various departments.

This was followed by the release of Bio Wings, a book by Dr. I. Niya's Ahamed, Department of Bio Chemistry. Dr. Pon Selvakumar, The Head of the Department of Tamil, launched a new website titled Tamil Nilam, a website that brings out the research activities of Dr. Prabhu on the archaeological surveys of Tamil Culture.



Research Day 2018

