



St. Xavier's College (Autonomous)

(Recognized as "College with Potential for Excellence" by UGC & Accredited at A⁺⁺ grade with CGPA of 3.66/4 in IV Cycle by NAAC)

Palayamkottai – 627 002

ANNUAL REPORT 2023-2024

PHYSICS RESEARCH CENTRE

The Physics Research Centre was established in 2007. And it has created a well-defined system to promote research. Exclusive research centres such as the Materials Research Centre, Crystal Research Centre, and Energy Research Centre are the department - level research units to support the research scholars of the college. At present, 24 research scholars are pursuing their research under the supervision of nine research supervisors in different disciplines. The Physics Research Centre was made available to all the PG students, whether they have any projects of their own or they are interns doing their research. The department has research instruments to carry out UV studies, optical properties of thin film, and nanomaterials. The faculty of the Physics Department is carrying out research in the fields of Crystal Growth, Thin Film, Nanomaterials, Polymers, Optoelectronics, Super Capacitors, etc. A notable number of papers have been published in well-reputed national and international journals for the academic year 2023-2024. The Department of Physics is continuing an MOU with PSN College of Engineering, Melathediyoor, with the aim of undertaking research activities pertaining to Nanomaterial synthesis and characterization, polymers, and hands-on training on Electrochemical Workstations.