



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

MATHEMATICS RESEARCH CENTRE

The Mathematics Department has a passion for creating research articles with an intense desire for innovation through research collaboration. There are 5 Research Supervisors and 20 scholars. The research areas cover Operations Research, Graph Theory, Functional Analysis, Algebra, Algebraic Graph Theory and Fuzzy Logic. One Scholar has defended the thesis and two scholars have submitted their theses through the research Centre during the academic year 2023-24. 45 research articles were published in Web of Science, Scopus, UGC Care listed journals and Conference Proceedings with impact factors. The PG & Research Department of Mathematics conducted 'An Intra-collegiate Three Day Workshop on Problem Solving in Analysis, Algebra and Integral Equations' on 15.11.2023 – 17.11.2023. 43 students from the Department of Mathematics participated in this workshop. 'A Two day Workshop on Linear Algebra' was conducted on 06.12.2023 – 07.12.2023, around 148 participants got benefited. 'An International Conference on Applications of Mathematics in Data Science' was conducted on 27.02.2023 and 28.02.2024 in collaboration with the PG Department of Data Science. Around 140 PG students, Research Scholars and faculty members participated in this conference. 64 participants presented papers. The papers of the conference were published in UGC CARE listed journals and ISBN Proceedings.