

## ACTIVITIES OF RESEARCH AND DEVELOPMENT CELL

2024-25

- The Research and Development Cell conducted research paper presentation series for the academic year 2024-25, titled “SPARK: Student Presentations Advancing Research Knowledge.”
- The first session of this series was conducted on 27th September 2024, at 12:30 p.m. in the Physics Seminar Hall. The session was hosted by the departments of Botany, Microbiology and Zoology. Session was chaired by Dr. Anila N, Assistant Professor, Dept. of Botany, St. Xavier’s College for Women, Aluva. The following research presentations were conducted.
  - Screening of chlorpyrifos resistance using indigenous bacterial isolates and its ability for biosurfactant production by Ms. Jerin George, of M.Sc. Microbiology.
  - Exploring *Naja naja* snake venom target and *Rouwolfia serpentina* plant ligand through molecular Docking for potential by Mahima J. Nair of B.Sc. Zoology Model 2
  - Chemical Ecology by Sruthy S Nair and Sreelakshmi of I B.Sc. Botany (Hons.)
- The second session of SPARK series was conducted on 18<sup>th</sup> October, 2024, at 12:30 p.m. in the Physics Seminar Hall. The session was hosted by the departments of Chemistry, Physics and Mathematics. The following research presentations were conducted.
  - A comparative study of pharmaceutical applications and docking analysis in : *Biophytum sensitivum*, *Phyllanthus niruri*, *Catharanthus roseus* by Sreya Mohan Goury Vinod and Afiya Fathima P. A, VIIIth Sem M.Sc. integrated Chemistry
  - Photocatalytic degradation studies of Methylene blue and paracetamol using Zinc doped Cobalt ferrite nano particles by Fathima Nufzin and Sharon V.S., Department of Physics.
  - Applications of Graph Colouring by Mariya M D and Arifa Nesmeen, III B.Sc. Mathematics
- The third session of SPARK series was conducted on 16<sup>th</sup> December, 2024, at 12:30 p.m. in the Commerce Seminar Hall. The session was hosted by the departments of Commerce (aided and unaided). Session was chaired by Dr. Mufliha S., Assistant Professor in Commerce, Govt. Victoria College, Palakkad. The following research presentations were conducted.
  - Women's Role in Household Financial Decision-Making: A Study of Organised Sector Employees in Ernakulam District by Abhisha.J, Assistant Professor, Department of Commerce, SreeSankara College, Kalady.
  - Online shopping: Study on the effect of hedonic value on buying behaviour by Jasna Mary Joseph, Research Scholar, St.Xavier's College for Women, Aluva.
  - Study on Awareness of fintech among Zoomers with special reference to Aluva municipality by Irfana K N of 1<sup>st</sup> M.Com. Finance and Taxation (unaided).