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Register now using this link
<https://forms.gle/KVE9KyRaBxGLG6cB7>

REGISTRATION FEE

Category	INR
Research Scholars / Students	: 600
Faculty	: 750

For Registration & Accommodation Details
Please contact the Organizing Secretaries

Workshop Features

Fundamentals of Statistics

Statistical terms, types of data and variables, scales of measurement, observational and experimental designs, descriptive statistics, tabulation, graphical presentation and hypothesis testing.

Introduction to SPSS

Understanding Data View and Variable View, defining variables and labels, data coding, transformation and basic statistical procedures.

Data Entry, Analysis and Presentation

Organizing datasets correctly, generating summaries and graphs, interpreting SPSS output and converting results into report-ready statements.

Excel for Biologists

Essential Excel functions for data handling, quick charts and summaries and AI assistance for data organization and validation.

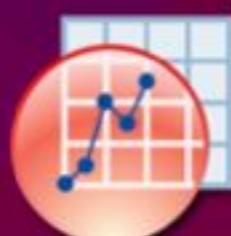
AI Tools for Life Science Research

AI support for statistical guidance, result interpretation, visualization suggestions, scientific writing and responsible research use.

1 on 1 Expert Guidance for Your Research

Personalized review of your dataset, help in test selection, guidance on analysis workflow and improving data presentation for thesis and publications.

PARTICIPANTS MUST BRING THEIR OWN LAPTOPS



International workshop on

BIOSTATISTICS SOFTWARE AND AI TOOLS FOR LIFE SCIENCE RESEARCH

FEBRUARY
25th & 26th, 2026

Venue: MCA Seminar Hall

Organized by
Department of Zoology

St. Xavier's College (Autonomous),
Palayamkottai - 627002,
Tamil Nadu, India

Recognised as 'College with Potential for Excellence by UGC'
Accredited by NAAC with 'A++' grade
with a CGPA of 3.66/4 in the IV cycle

About St. Xavier's College

St. Xavier's College was established at Palayamkottai in 1923 by Jesuit Fathers of the Jesuit Madurai Province with an aim of preparing generations of students for a happy, healthy and harmonious life. The motto of the college is *Veritate Lumen et Vita* (Light and Life through Truth). It is a grant-in-aid institution recognized by the UGC Act under sections 2(f) and 12(B). The college is affiliated to the Manonmaniam Sundaranar University. In recognition of its service and excellence, the college was granted autonomy in 1987. The UGC awarded the status "College with Potential for Excellence" in 2004 and again in 2010, 2014 and 2019. The NAAC accredited at A++ grade with a CGPA of 3.66 out of 4 in IV cycle in 2019. STAR College scheme has been awarded by DBT, Govt. of India. The college stands 48th in College Category 2025 NIRF ranking. Today more than 4,500 students study in 23 post-graduate and undergraduate departments. Doctoral research is carried out in 12 departments. With great joy and pride the college triumphantly marches towards 103rd year.

About The Department of Zoology

The Department of Zoology was started in 1927 when the subject was taught to the intermediate students. B. Sc. Degree program was started in 1957 and upgraded to M.Sc. In the year 1979. The department was recognized as a research department in 1985 with Ph. D. program and M. Phil. program is offered since 1986. In the year 2003 and 2018, the department was recognized as DST-FIST sponsored department. In 2014, the department was included under STAR-College Department Scheme offered by the Department of Biotechnology, Ministry of Science and Technology, Govt. of India. The department in 2018 celebrated its Diamond Jubilee commemorating its 60 successful years. At present, the faculty members have individual laboratories and guide research scholars for their doctoral degree and work in areas of basic and applied aspects of applied zoology, aquaculture, agriculture zoology, medical entomology, insect immunology, wildlife biology, phytochemistry and pharmacology.

Programme Schedule

Day 1 - 25.02.2026

09.00 a.m.	Registration
09.30 a.m.	Inauguration (MCA Seminar Hall)
	Prayer
	Welcome address
	Dr. P. Selvaraj
	Workshop highlights
	Dr. J. Babilia Jasmine
	Felicitation
	Rev. Dr. Fr. Godwin Rufus, S.J., Principal
10.15 a.m.	Tea break
10.30 a.m.	Session I
	Dr. Julian Daniel, Assistant Professor, Maritime and Logistics, SXC
	Basic concepts of statistics and Introduction to SPSS, Data entry, Descriptive statistics
11.45 a.m.	Session II
	Dr. T. Prema, Head and Associate Professor of Zoology, VHNSN college, Virudunagar.
	T test, ONE way and two way ANOVA, MANOVA (SPSS)
01.00 p.m.	Lunch
02.00 p.m.	Session III
	Dr. T. Prema, Head and Associate Professor of Zoology, VHNSN College, Virudunagar.
	CHI square test, Linear and multiple regression (SPSS)
03.15 p.m.	Tea break
03.30 p.m.	Session IV (online)
	Dr. K. Haemalatha, Professor Grade 1, Sensor and Biomedical Technology School of Electronics Engineering, VIT Vellore.
	Statistical analysis Using Origin matrix

Day 2 - 26.02.2026

09.00 a.m.	Session V
	Dr. Kalpana, Assistant Professor, Data Science, SXC
	Statistical Data analysis using EXCEL
10.15 a.m.	Session VI (Online)
	Dr. B. Sundaravadivazhagan, Professor, College of Computing and Information Sciences, University of Technology and Applied Sciences, Sultanate of Oman
	EXCEL Visual Analytics in the AI Era:Smart tools, visual intelligence, Innovation & Scientific Insights
11.30 a.m.	Tea break
11.45 a.m.	Session VII
	Dr. E. Sahaya Chithra, Assistant Professor, Artificial Intelligence, SXC
	AI tools for biological research
01.00 p.m.	Lunch
02.00 p.m.	Session VIII
	Dr. Y. Sunil Raj, Assistant Professor, Data Science, SXC
	Modern Bio-Stats: From Lab to Land
03.15 p.m.	Valediction (MCA Seminar Hall)
	Workshop report
	Dr. S. Selvaraj
	Valedictory address
	Rev. Dr. Fr. S. Lazar, S.J., Secretary
	Certificate distribution
	Feedback of participants
	Vote of thanks
	Dr. J. Babilia Jasmine
03.45 p.m.	Tea