



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

DEPARTMENT OF COMPUTER SCIENCE (Shift - I)

Computer Science Association ‘XTHEOS’ was inaugurated on 26.07.2023. Dr. B. Xavier Innocent, Deputy Principal, presided over the function. Thiru. R. Varatharaj, Centre Head, Livewire, Software Training Institute, Tirunelveli, was the Chief Guest and delivered a lecture on the topic “Full Stack”. Mr. E. Danusan, III B.Sc. Computer Science participated in a State Level Intercollegiate competition and won third prize in Web Designing. Mr. R. Ganapathy, III B.Sc. Computer Science won second prize in Mobile Photography held at JP College of Arts and Science on 06.10.2023. Mr. G. Joachim Bharathi, of III B.Sc. attended a NCC Campon Youth Exchange Program at Moscow, Russia, from 20.09.2023 to 10.10.2023.

A workshop on “Crafting Your Own IoT Application” was conducted on 27.11.2023, Mr. S. Deepa and Mr. S. Selvakumar, Data Analyst, Dhatchan Software Academy, Tirunelveli were the resource persons.

The final year students Mr. G. Joachim Bharathi and Mr. S. Mukesh attended NCC Camp on “All India Boys Tracking Cum Expedition” from 23.12.2023 to 29.12.2023, at Kulathupuzha, Kerala.



A Seminar on “Mind Triggers” was held on 31.01.2024. Dr. M. S. Selva Kumar, Dept. of Chemistry, St. Xavier's College, was the resource person. A State Level Intercollegiate Tech Meet XPASO'24 was held on 31.01.2024. Around 200 students from different colleges

participated in six different events.

An alumni meeting was organized on 10.02.2024. Our students won first prize in interdepartmental Football competition held on 15.02.2024.

A One day workshop on ‘Generative AI Tools and its Application for Industry 4.0’ was held on 27.02.2024. Mr. J. Mohammed Nowsath Sherif, MD & CEO, and Mr. Santhosh, Senior Trainer, Start Dom Education, Chennai, were the resource persons. Around seventy participants attended the workshop.

DEPARTMENT OF COMPUTER SCIENCE (Shift – II)

The Xaverian Association of Computer Science (XACS) crafted an action plan comprising seven seminars, sixteen competitions, three workshops, four technical quiz series, two project orientations, two tech-talks, one motivational talk, two project orientations and one State Level Tech-Meet XPASO’24. According to the action plan, a diverse range of activities, including Educational Seminars, Competitive Events, Skill-Building Workshops, Knowledge Quizzes, Project Guidance Sessions, and Inspirational Talks were successfully executed.

A seminar on “Data Integration” was organized by XACS on 23.06.2023. Mrs. Jindhuja, Research Scholar of Computer Science Department served as the resource person. A seminar on “Dynamic Machine Learning” was organized on 26.06.2023. Mrs. J. Mary Magdalene, Research Scholar of Computer Science was the resource person. An orientation on “Internship Report Preparation” was organized on 26-06-23 by the CSE Project Development Forum for PG students, facilitated by Dr. J. Patricia Annie Jebamalar. Another orientation on ‘Internship Report Preparation’ was organized on 30-06-23 for UG students by the CSE Project Development Forum. Dr. J. Patricia Annie Jebamalar, was the resource person.

A seminar on the ‘Significance of Certification on Linux in the Job Market’ was organized by XACS on 14.07.2023 for II B.Sc. and II M.Sc. students. Mr. Sugumar, Trainer from Red Hat Linux was the resource person. A workshop on “Virtual Reality” was organized on 20.07.2023 by XACS. Mr. Jerome Abel served as the resource person. The inauguration of XACS & XTHEOS took place on 26.07.2023. A Tech-Talk on “Machine Learning: A Blooming Trend” was organized by the Department of Computer Science in association with Computer Science Department of Mar Ivanios College, Trivandrum on 10.08.2023, with Dr. J. Remy as the resource person.

International Youth Day Special Digital Poster Competition was conducted on 12.08.2023 by XACS. Photography Competition was held on 22.08.2023. Technical Quiz Series I – C Programming was conducted on 30.08.2023 by John McCarthy CSE Quiz Club. Book Cover Design Competition was conducted on 08.09.2023.

On 08.09.2023, two students participated in a State Level Symposium at Ayya Nadar Janaki Ammal College, Sivakasi and secured first prize in Quiz and second prize in paper presentation. On 12.09.2023, two students participated in Tech-Fest at Sri Ram Nallamani Yadava College, Tenkasi and secured second prize in Quiz. A Hands-on Session on Figma was organized on 27.09.2023 with Mr. B. Alex Raj as the resource person. Technical Quiz Series II – Python Programming was conducted on 29.09.2023 by John McCarthy CSE Quiz Club.

A seminar on “Virtual Reality” was organized on 22.11.2023. On 27.11.2023, Steve Jobs CSE Fine Arts Forum conducted Prose Writing, Poem Writing, and Elocution competitions in both Tamil and English. Color Drawing and Pencil Sketching competitions were conducted on 28.11.2023 by Steve Jobs CSE Fine Arts Forum. Technical Quiz Series III – C++ Programming was conducted on 29.11.2023 by John McCarthy CSE Quiz Club.

An orientation on “Software Development” was organized on 29.11.2023 by CSE Software Development Forum. Ms. Harshini, Mr. Jothi Kumar, Dr. M. Venkatesh, and Dr. J. Patricia were the resource persons. A compassion event named “St. Francis Xavier Feast Celebration” with SCHAT Home Children, Krishnapuram, was organized on 03.12.2023. A Mehandi Competition was conducted on 04.12.2023 by Steve Jobs CSE Fine Arts Forum. A Seminar on “GIT & GITHUB” was organized on 11.12.2023 by XACS, with Mr. P. Saravanan as the resource person.

“National Youth Day Special Video Editing Competition” was conducted on 18.01.2024. A State Level “Tech-Meet XPASO’24” was organized on 30.01.2024. Technical Quiz Series IV – Data Structure was conducted on 13.02.2024 by John McCarthy CSE Quiz Club. A Special Talk on “Mastering your Interview: Strategies for Success” was organized on 13.02.2024. Artistic Fusion-Boundless Creativity in Rangoli Competition was conducted on 13.02.2024 by Ada Lovelace CSE Women’s Forum. Two I UG students participated in the Two-Day State Level Workshop: SAC-SCRIPT-24 organized by Sadakathullah Appa College on 14.02.2024.

Software Marketing Competition was conducted on 14.02.2024. A Seminar on “Networking and IP Addressing” was organized on 15.02.2024 by Charles Babbage CSE Men’s Forum. On 16.02.2024, II PG students went for an Industrial Visit to Softzane Solutions, Anchal, Edamulackal, Kerala. A Paper Presentation Competition was organized on 19.02.2024. A motivational talk on “Life after College Days” was organized on 19.02.2024. On 20.02.2024, III UG students went for an Industrial Visit to Vikram Sarabhai Space Centre Thiruvananthapuram, Kerala. A workshop on “Generative AI Tools & its Applications for Industry 4.0” was organized on 27-02-2024. On 29-02-2024 the Association Valedictory was organized and the department Newsletter, XACS CSE Magazine, CSE Blog Magazine, and Ada Lovelace CSE Women’s Forum Magazine were released. In conclusion, the Xaverian Association of Computer Science (XACS) and CSE Forums successfully executed a comprehensive action plan encompassing a wide array of activities aimed at enriching the educational experience of the students. Seminars, Workshops, Competitions and Orientations contributed to the enhancement of skills, knowledge, and personal development in the field of Computer Science.

TABLE.8.a . PAPERS PUBLISHED IN JOURNALS (2023.2024)

S. NO	Name of the Teacher	Name of the Department	Title of the Paper	Name of the Journal	Volume No/ Issue No/ Page No /year	ISSN No. / e.ISSN No.	Cited in Web of Science / Scopus Indexed/UGC Approved / Not Found in UGC.CARE List	National / International	Impact Factor	Month & Year of publication
01	Dr. J. Margaret Sangeetha	Computer Science	Financial stock market forecast using evaluated linear regression based machine learning technique	Measurement: Sensors	Volume 31	Online ISSN: 2665.9174	SCOPUS	International	0.9	February ,2024

TABLE.8.b – PAPERS PUBLISHED IN CONFERENCE / SEMINAR PROCEEDINGS (2023.2024)

S. No	Name of the Teacher	Department	Title of the Paper	Title of the Proceedings	National / International	(Place, Publisher, Year, Page No.)	ISSN / ISBN No.
01.	Fr. A. Leolin Arockiadass S J	Department of Computer Science	“Energy Effecient Framework for Smart City Environment”	Proceedings of the International Conference on The Impact of Disruptive Technologies (ICIDT 2024)	International	Department of Computer Science, St.joseph’s College, Tiruchirappalli.620002, Jan 2024. Pp. 10.18,	978.93.5891.415.3

TABLE 9 . BOOKS / BOOK CHAPTERS PUBLISHED (2023- 2024)

S. No	Name of the Teacher	Department	Title of the Books / Proceedings	Title of Book Chapters	Place, Publisher, Page No.	National / International	ISSN / ISBN No.	Month & Year of publication
01.	Dr.V.Narayani	Computer Science	Current Trends in Multidisciplinary Research, Vol.I	Big Data And Machine Learning's Impact on Marketing's Digital Transformation – A Review	Tamilnadu,ESN Publications,2023, Page No.1.15	National	9789395196512	2023
02.	T.C.Rajakumar	Computer Science	Cybersecurity and Mathematical Modeling		Periar University, pp1.6	International	978.93.6013.652.9	July, 2023