ST. XAVIER'S COLLEGE (AUTONOMOUS)
PALAYAMKOTTAI - 627 002
(Recognized as "College with Potential for Excellence" by UGC &
Accredited by NAAC at A++ Grade with a CGPA of 3.66 out of 4)

ANNUAL REPORT 2022-2023

DEPARTMENT OF COMPUTER SCIENCE (SHIFT- I)

Computer Science Association was inaugurated on 12.08.2022. Rev. Dr. T. Meyyappan, Head, Department of Computer Science, Alagappa University, Karaikudi, was the chief guest. An Alumni meeting was organized on 02.10.2022. A career guidance program is held on 20.12.2022. Mr. Maria Antony Samy, System Analyst, OOR Cabs Pvt. Ltd., Chennai was invited as the Resource person.

Our students have won third prize in the intra departmental Pongal competition held on 13.01.2023. Er. S. Selvakumar, Software Analyst, Beviwise Network, Tirunelveli has given a talk on "Anticipation of Software Industries" on 19th January, 2023. A motivational talk ios given by Rev. Dr. M. Xavier Rex, Principal, Carmel Academy, Mandamarri, Telangana on 27.01.2023.

A Seminar on 'Challenges in IT Industries" was held on 15.01.2023. Mr. S. Tony Walter James, Director, Zoi Fintech, Mumbai was invited as the Resource Person. Our students Mr. J. N. Allwin Immanuel and Mr. G. Joachim Bharathi participated as NCC Cadets on the 74th Republic Day Parade held on 26.01.2023 at New Delhi.

Our department students have won the third prize in the "SXC@100 EXHIBITION 2023" was held from 30.012023 to 03.02.2023. Mr. E. Dhanusan and Mr. K. Sakthivel won the third prize in Chief Minister's football Tournament held at Anna Stadium, Tirunelveli on 12.02.2023. A state level intercollegiate tech meet XPASO'23 was held on 28.02.2023. Around 250 students from 31 different colleges have participated in ten different events. Mr. Alex, Managing Director, DParkz and Mr. Aravind, Vijay Television were the guests of honor and distributed the Prizes.

DEPARTMENT OF COMPUTER SCIENCE (Shift – II)

International Youth Day Special Digital Poster Competition was conducted on **12.08.2022** by Xaverian Association of Computer Science (XACS). The Theme of the Competition was 'Intergenerational Solidarity-Creating a World for All Ages'. Thirty-Six

Students from the Department have participated in the Competition. **Rubik's Cube Training programme** was organized on **16.08.2022** by Xaverian Association of Computer Science (XACS). Mrs. L. Sujatha, Assistant Professor, Department of Computer Application served as resource person. Fifty-one Students have participated in the Training programme. **Inauguration Function** of Xaverain Association of Computer Science(XACS) & CSE Forums was held on **23.08.2022**. Mr. P. Rajarathnam, Sub-Inspector of Police, Cyber Crime Cell, Tirunelveli has served as the Chief Guest. **World Photography Day Photography Competition** was conducted by Steve Jobs CSE Fine Arts Forum on **22.08.2022**. The Theme of the Competition was 'Gender Equality'. **Rubik's Cube Special Performance** and **Rubik's Cube Competition** was organized on **25.08.2022** by Xaverian Association of Computer Science (XACS). Master J.Yuwin Herzon,VII STD, Bell Matric Hr.Sec. School, has served as young Special Performer and Mrs. L. Sujatha, Assistant Professor , Department of Computer Application, St.Xavier's College, has served as the Judge. **Technical Quiz Series – 1,** covering the topics C and C++ Programming was conducted on **27.08.2022** by John MCcarthy CSE Quiz Club**.** Thirty Four students have participated in the quiz. **International Literacy Day Special, Book Cover Designing Competition** was conducted on **08.09.2022** by Xaverian Association of Computer Science (XACS).**Seminar on Remote Sensing and Image Analysis** was organized on **23-09-2022** by Xaverian Association of Computer Science (XACS). Prof. Anitha, Assistant Professor, Department of Information Technology, National Engineering College, Kovilpatti served as Resource Person for **Aptitude Test Series 1, Current Affairs Test 1, Essay Writing Competition**. **Singing Competition-Melody** was organized by Steve Jobs CSE Fine Arts Forum. **Seminar on Cryptography** is organized on **27.09.2022** by Xaverian Association of Computer Science (XACS). B. S. Abdul Rahman Cresent Institute of Science and Technology, Chennai served as the Resource Person for the Seminar. **Motivational Talk and**. **Non - Technical Quiz Series-1** was conducted by John MCcarthy CSE Quiz Club. **Centenary Year Computer Science Alumni Meet** was organized on **02.10.2023**. **Seminar on Basics of Programming Language** was organized on **11.10.2022** by Xaverian Association of Computer Science (XACS).Prof. Ms. S. Arul Vallarasi, Assistant Professor, Department of Computer Applications, St. Xavier's College served as resource person. **Workshop on Interview Readiness and Career Planning** for PG and Third UG Students was organized on **11.10.2022** by Alan Turing CSE Placement Forum. Prof. P. R. Sundara Pandian, Head-Corporate Relations, Xavier Institute of Business Administration has served as Resource Person. An **Awareness Talk on POCSO Act** was organized on **13.10.2022** by Charles Babbage CSE Men's Forum. Dr. R. Sahayaraj, Assistant Professor, Department of Social Work, St. Xavier's College served as Resource Person. A Special **Video Editing Competition Regarding International Day for the Eradication of Poverty** was conducted on **17.10.2022** by Xaverian Association of Computer Science (XACS). Fifteen Students from the Department of Computer Science(Shift II) **participitated** in a **State Level Intercollegiate Competition** called TEQFEST'22 organized by Department of Computer Applications,Sri Ram Nallamani Yadava College of Arts and

Science,Tenkasi on **17.10.2022** and secured prizes in Tech Connection,Software Marketing and Quiz Competitions. A **Guest Lecture on Transaction Concept in DBMS** was organized on **28.10.2022** by Alan Turing CSE Placement Forum. Prof. B. Praveen Siromani, Assistant Professor, St. John's College, Palayamkottai was Resource Person. **Technical Quiz series - II** covering the topic "Data Structure" was conducted on **31.10.2022** by John MCcarthy CSE Quiz Club. **Seminar on Convolutional Neural Network** was organized on **01.11.2022** by Xaverian Association of Computer Science (XACS). Good Samaritan Forum of Computer Science Department (Shift II) organized a **Compassion Event** by sponsoring Special Lunch and Evening Snacks & Tea for the children in Blind school, Palayamkottai on **03.11.2022**. PG students of Computer Science Department **participated in a seminar** on "Job Opportunities on Linux Certification" organized by the Placement forum of the College on **12.12.2022**. **Awareness Talk on Academic Benefits of NPTEL Courses** was organized on **19.01.2023** by Xaverian Association of Computer Science (XACS). **Alumni meet** was organized on **28.01.23**. An **Orientation Programme on Significance of Certifications on Linux in the Job Market was** jointly organized by Dept. of Computer Applications and Dept. of Computer Science on **08.02.2023**. **Web Designing Competition** on Event Management Web Portal was organized on **13.02.2023** by Xaverian Association of Computer Science(XACs).**Career Guidance Programme on National Institute of Securities Market(NISM) Certification and Job Opportunities** was organized on **05.02.2023**. Mr. N. Suresh and Mr. P. Elango Babu ,co-founders of Diksha Academy, Tirunelveli served as resource persons. A **State Level Intercollegiate Technical Symposium XPASO'23** was organized on **28.02.23**.

Twenty four of our Students from the Department have **participated** in a **National Level Symposium DAWN-23** organized by Francis Xavier Engineering College, Tirunelveli on **03.03.2023** and have won the Overall Trophy. Fourteen students from the department have

participated in an **Intercollegiate Symposium-RITTs-2K'23** organized by Rose Mary College, Tirunelveli on **07.03.2023** and won the Overall Trophy. **Femina Model Competition and Healthy Diet Competition** was organized on **08.03.2023** by Ada Lovelace CSE Women's Forum. **Technical Quiz-Series 3** was organized on **14.03.2023** by John MCcarthy CSE Quiz Club. **Paper Presentation Competition** and **Debugging Competition** were organized on **15.03.2023** by Xaverian Association of Computer Science (XACS). **Software Marketing Competition** was organized on **23.03.23** by Xaverian Association of Computer Science (XACS).**Glass Painting Training programme** was organized by Ada Lovelace CSE Women's Forum on **24.03.2023**. **Valedictory Function** of the Association was organized on **27-03-2023**.

TABLE.8.a. PAPERS PUBLISHED IN JOURNALS (2022-2023)

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
1	F. Ludyma Fernando, S. John Peter	Computer Science	Convolutional Neural Network for the Recognition and Characterization of Emotions using Double Average Filtering and SELU activation – Valence Cognizance	Turkish Journal of Computer and Mathematics Education	Vol.13 /No.03 /195-203/2022	e-ISSN 1309-4653	Scopus	International	

2	F. Ludyma Fernando, S. John Peter	Computer Science	SUPPORT VECTOR MACHINE WITH RADIAL BASIS FUNCTION FOR FACIAL EMOTION VALENCE RECOGNITION	European Journal of Molecular & Clinical Medicine	Volume 9/ Issue 4/Pages 1960-1969/2022	ISSN 2515-8260	Scopus	International	
3	Sahaya Jeya Sutha,Dr D.S.Mahendran,Dr. S.John Peter	Computer Science	An Efficient Content Based Image Retrieval using Block Truncation Coding	Neuro Quantology	20(8):812-823	ISSN 1303 5150	Scopus	International	
4	Edward Daniel Christopher B. and	Computer Science	Effective Performance Improvem	Stochastic Modeling	Vol. 26 No. 3 (January - June, Special	ISSN: 0972-3641	UGC CARE	International	

	Victor S.P		ent for Prediction Assessment in Medical Diagnosis Disease Prediction System Using DNA Sequences and Structure Information	&Applications	Issue 2022 Part - 12), pp 66-75.				
5	Mary Magdalen e Viola W. and Victor S. P	Computer Science	A survey on image processing techniques for motion detection in video surveillance system	International Journal of Multidisciplinary Research,	Vol. 8, Issue 3, March 2022, pp 171-174.	ISSN 2277-9302.	UGC CARE	International	8.205
6	A. Dhana Praveena	Computer Science	An Efficient Adaboost	International Journal	Vol. 7 No. 5 May,	ISSN: 0974-	Scopus and UGC-CARE	International	2.1

			Ensemble System for Predicting Frequent Itemset in Weblog Dataset	of Mechanical Engineering	2022	5823	List		

TABLE.8.b. – PAPERS PUBLISHED IN CONFERENCE / SEMINAR PROCEEDINGS (2022-2023)

S. No	Name of Teacher	Department	Title of the Paper	Title of the Proceedings	National / International	(Place, Publisher, Year, Page No.)	ISSN / ISBN No.
1	Dr.V.Narayani	Computer Science	Classification of Mangosteen Fruit Disease Detection System based on existing Convolutional Neural Network	Proceedings of 2nd International conference in Innovative Computational Intelligence	International	Vol.2,2022, 546-554	
2	Dr.V.Narayani	Computer Science	Analyzation of Various Optimizers Using Convolutional Neural Network for Mangosteen Fruit Disease Detection System	Proceedings of National Conference on Contemporary Research and Computer Intelligence (Nccraci-2022)	National	Nagercoil, B-DIGEST Publications, 2022, 279-283	ISBN: 978-93 84734-62-6