



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)
INTERNAL QUALITY ASSURANCE CELL (IQAC)



ASSOCIATION ACTIVITIES
DEPARTMENT OF COMPUTER APPLICATIONS

The Department of Computer Applications has paved the way for knowledge enrichment and learning even in the pandemic period by conducting a good number of programmes. Inauguration Function of Xaverian Computer Applications Professionals Association (XCAPA) was held on 18.08.2022. Dr. Grasha Jacob M.C.A., M. Phil., Ph.D., Associate Professor and Head (Department of Computer Science), Rani Anna Government College for Women, Tirunelveli, has served as the Chief Guest.

A Seminar on JavaScript for Client and Server-Side Scripting was held on 26.08.2022. Dr. M. Venkat, B.E.(CS), Technical Support- Corporate Trainer, Livewire served as the Chief Guest. A Seminar on Data Science was held on 27.08.2022. Ms. Amsiha Vora, Mr. Soha G and Ms. Anu G Data Science Students from Jain University, Bangalore served as key speakers. Career Guidance Programme on Numeric Aptitude and Reasoning Ability and Aptitude and Reasoning Ability was started on 02.09.2022. It was a 30 hours Training Programme. The programme was offered for the final year students of BCA and MCA courses.

An orientation programme for the chess competition is held on 06.09.2022. The Inter Collegiate Tech Meet ICAPO 2022 was held on 14.10.2022. Mr. J. S. Sukumar, Industry Institute Interactive Consultant, Advantage Pro, Chennai was the Chief Guest.



Alumni Meet of Department of Computer Applications was held on 10.12.2022. Mr. Sudalai Muthu, retired Canara Bank officer was the chief guest. Seminar titled Job Opportunities on Linux Certification is held on 12.12.2022. Mr. J. S. Sukumar, Industry Institute Interactive Consultant, Advantage Pro, Chennai was as the Chief Guest. The paper presentation competition was held on 12.01.2023. Dr. M.Venkatesh, Assistant professor of Computer Science and Dr. A. Jasmine Xavier, Assistant professor of Computer Science served as judges. For the Paper Presentation Competition 10 teams (one or two participants per team) participated in the paper presentation Competition.

Orientation Programme on Significance of Certifications on Linux in the Job Market was held on 08.02.2023. Mr. J. S. Sukumar, Industry Institute Interactive Consultant, Advantage Pro, Chennai is the Chief Guest.

An Orientation Programme on NISM Certification was held on 12.02.2023. Mr. Suresh, Founder and CEO, Diksha Academy for Banking and Finance, Tirunelveli was the Chief Guest. Paper Presentation Competition was held on 14.03.2023. Prof. L.Sujatha, Assistant professor of Computer Applications and Dr. R. Geetha, Assistant professor of Computer Applications Dept served as Judges.

XCAPA Valediction function is held on 28th March 2023, in Lebeau Auditorium.

Seminar on “Top Trending Technologies & It’s Opportunities was conducted on 20.03.2023. Ms. Thanga Atchaya, Livewire Engineer, Livewire Software Training Institute served as the resource person.

XCAPA Valediction function was held on 28.03.2023, in the Lebeau Auditorium. Mr. U. Silambarasan Shariff, Global Career Counsellor & Life Strategist served as the resource person for the valedictory function.

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

S. N O	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	Dr.S. Chidambaranathan	Computer Applications	An Innovative Sensing Machine Learning Technique to Detect Credit Card Frauds in Wireless Communications	Hindawi Wireless Communications and Mobile Computing (SCI Indexed Journal)	Volume June 2022, Article Id: 2439205, Page Nos.:1-12	ISSN No.:2347-3150 https://doi.org/10.1155/2022/2439205	(SCI Indexed Journal)	International	-
2	Dr.S. Chidambaranathan	Computer Applications	An IOT based 5G filter that uses Fourier Transform to minimize noise (Accepted)	Hindawi Wireless Communications and Mobile Computing (SCI Indexed Journal)	Volume 2023	ISSN: 1530-8669	(SCI Indexed Journal)	International	-
3	Ms. Arul Vallarasi S	Computer	Challenges of	Gradiva	Volume 8 Issue 12,	0363-8057	Scopus	International	6.3

		Applications	Students in Online Classes	Review Journal	pages 1308 to 1312		Indexed		
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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.S. Chidambaranathan	Computer Applications	Chronic Kidney Disease Identification using Machine Learning Techniques	National Conference on Innovation in Engineering and Technology	National	Velammal College of Engineering and Technology, Madurai National (AICTE sponsored) 24 th 25 th Nov.2022	-
2	Dr.S. Chidambaranathan	Computer Applications	Machine Learning Approaches for the Detection of CKD	National Conference of Inter disciplinary Research through New Age Information Technology	National	Muslim Arts College, Thiruvithamcode, Kanyakumari, 24 th Feb. 2023	-

TABLE 9 - BOOKS / BOOK CHAPTERS PUBLISHED (2022-2023)

S. No	Name of Teacher	Department	Title of the Books / Proceedings	Place, Publisher, Year, Page No.	National / International	ISSN / ISBN No.
1	Dr.S. Chidambaranathan	Computer Applications	Learning Genetic Algorithms with Python – In	Scientific International Publishing House,	International	ISBN No: 978-93-5625-219-6

			Optimization and Machine Learning	06/06/2022 Pages: 213		
2	Dr.S. Chidambaranathan	Computer Applications	Handbook of Python Programming	Scientific International Publishing House, 22/02/2023 Pages: 213	International	ISBN No: 978-93-5757-042-8
3	Dr.S. Chidambaranathan	Computer Applications	Artificial Intelligent Techniques for Wireless Communication and Networking [Enabling Artificial Intelligence and Cyber Security in Smart Manufacturing]	Scrivener Publishing, Wiley, Georgia, USA	International	Scrivener Publishing, Wiley, Georgia, USA Published 2022 ISBN No: 978-1-119-82127-4 Pages 269-286
4	Dr.S. Chidambaranathan	Computer Applications	Handbook of Deep Learning in Biomedical Engineering and Health Informatics [Technical Assessment of Various Image Stitching Techniques: A Deep Learning Approach]	Biomedical Engineering, Apple Academic Press Inc, 1st Edition Published 2022,	International	ISBN No: 978-1-77188-998-8 Pages 51-81
5	Dr.S. Chidambaranathan	Computer Applications	Smart Mobility of Commercial and Hazardous Vehicles [Optimized	Apple Academic Press, USA Published 2023	International	ISBN:9781774915387

			Machine Learning Based Pedestrian Detection For Autonomous Vehicle]			
6	Dr.S. Chidambaranathan	Computer Applications	AI Based Digital twin Technology for Electric Vehicles [Artificial Intelligence enabled Electric Vehicle Contribution using Power Optimization Logic. (ACCEPTED)]	Scrivener Publishing, Wiley, Georgia, USA	International	
7	Ms. Arul Vallarasi S	Computer Applications	Handbook on Android Application Development	J.E Publication Nagercoil		978-93-84734-38-1