St. XAVIER'S
CATHOLIC COLLEGE OF ENGINEERING
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Chunkankadai, Nagercoil – 629003
Kanyakumari District, Tamil Nadu

BRIGITZ

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FACULTY ADVISOR – BRIGITZ

Dr.G.Sahaya Stalin Jose
HOD - IT

DEPARTMENT OF

INFORMATION TECHNOLOGY

JANUARY 2024 - JUNE 2024

Vision

Creating top-notch Information Technology Engineers, innovative researchers and successful entrepreneurs towards developing a technically-empowered humane society.

Mission

- M 1. Providing quality technical education and high caliber skill training that meets the needs of society and latest technical expectations of the industry.
- M2. Fostering innovative and rigorous research culture among staff and students to find optimal solutions for complex problems.
- M3. Imparting value-based education to imbibe ethical principles and act with social responsibility, team spirit, and leadership.
- M4. Promoting and developing entrepreneurial skills of the students and handhold them towards commercial success

FROM THE DESK OF

EDITOR-IN CHIEF

Dr.G.Sahaya Stalin Jose ,Ph.D

Head of the Department

It gives me immense pleasure to present this edition of our departmental newsletter Jan 2024 to June 2024, a window into the vibrant academic and co-curricular life of our IT community. The past semester has been a period of remarkable growth, innovation, and collaboration. Our students and faculty continue to demonstrate excellence through research publications, technical workshops, industry collaborations, and achievements in hackathons and innovation challenges.

We are committed to nurturing future-ready professionals equipped with strong technical skills, ethical values, and a spirit of innovation. With rapid advancements in technologies like AI, big data, cybersecurity, and IoT, our department strives to keep pace through updated curricula, hands-on training, and industry engagements.

I congratulate all the contributors of this newsletter and encourage everyone to continue striving for excellence. Let us continue to work together to elevate the Department of Information Technology to greater heights.

ABOUT OUR DEPARTMENT

The Department of Information Technology was established in the year 2001 with an initial intake of 60 students. Since its inception, the department has remained steadfast in its mission to produce competent and socially responsible IT professionals equipped to meet the dynamic demands of industry and society. Our department boasts state-of-the-art laboratories with advanced configurations to foster analytical thinking and practical problem-solving skills among students.

Salient Features

- Excellent record of academic achievement extending 20 years.
- Experienced and dedicated faculty with 5 Ph.D. holders and 4 pursuing Ph.D's
- Every classroom has a wall-mounted LCD.
- The project lab, IT lab, and computer center are designed to assist faculty and students in using computers and completing projects online. Every lab has air conditioning installed with the most recent system configurations.

A team of experienced and dedicated faculty members drives our commitment to delivering high-quality education, project guidance, and mentorship, ensuring students grow academically and personally.

To enhance technical exposure, robotics classes are conducted every week in collaboration with Hiltek, offering students hands-on learning in automation and intelligent systems. Additionally, library hours are integrated into the regular timetable to instill reading habits, research skills, and academic discipline.

We provide ample opportunities for students to enhance their skills through technical enrichment activities and value-added projects. As a result, our graduates consistently secure excellent placements in leading companies across various domains.

In addition to academics, we offer a holistic platform for students to explore and excel in sports, cultural, and technical arenas—shaping them into well-rounded individuals prepared for the global stage.

EXPLORING THE CHRONICLES

A Seminar on "Advanced Java with event handling" has been conducted on 8 April 2024

Career Guidance has been organized in the topic "Strategies for students to stay inspired and achieve success" on 27 March 2024 for II IT

Career Guidance has been conducted in the topic "Identifying and Chasing Paassion for Career Success" on 21 March 2024

A Seminar on "Resume Writing" was conducted on 9 March 2024

A workshop on "Whit-Hat Hacking" was organized on 9th March 2024 by J Antony Reeta, Networking Specialist, Networkz Systems as the resource person.

FDP has been conducted for faculty in the topic "Devops" from 19 to 23 Feb 2024

- A workshop on "Employability Skill" was organized by the Tamil Nadu Naan Mudhalvan Scheme with Mr. A Thivakara, Trainee, Naandhi Foundation as the resource person on 22nd, 23rd, and 24th of February 2024.

A hands-on workshop on "Introduction to Flutter and Dart programming" was with Mr. S Gokul Kumar, Partner – Product Development, Flutterfrog Software Solutions, LLP as the resource person on 24th January of 2024.

ACHIEVER'S CORNER

CAMPUS PLACEMENT

RANK HOLDERS

Rank	Register Number	Name
1	962220205044	Sivasankari M.S
	962220205010	Ashrin Ummu Salma P
2	962220205038	Sahaya Vismi S
	962220205043	Shibin Sam A

STAFF ACHIEVEMENTS

STAFF NAME	STAFF ACHIEVEMENTS
DR. ANNROSE.J	**FDP attended** DevOps Innovative Teaching And Learning Pedagogy AI
ER.GEO JENEFER G	**FDP attended** DevOps Innovative Teaching And Learning Pedagogy AI
ER. AGNES ALEX RATHY P	**FDP attended** **Teaching, Learning And Research Methodology**
ER. ANISHYA P	**FDP attended** DevOps Innovative Teaching And Learning Pedagogy AI

JOURNAL PUBLICATIONS

DR.SAHAYA STALIN JOSE G

- "Self-attention conditional generative adversarial network optimized with crayfish optimization algorithm for improving cyber security in cloud computing", Computers and Security, pp: 1-21.(SCI).
- "Implementing Machine Learning for design and evaluation of Antenna Parameters"Signals and Communication Technology,2024,1-223-233. (Scopus)

DR.SUJA A ALEX

- Deep convolutional neural networks with genetic algorithm-based synthetic minority over-sampling technique for improved imbalanced data classification",Applied Soft Computing.(SCI)

CONFERENCE PUBLICATIONS

DR.J. ANNROSE

- POWER PERFORMANCE AND EMISSION ANALYSIS OF OUTBOARD DIESEL ENGINES BY USE OF WASTE COOKING OIL BIODIESEL

DR.HEVIN RAJESH

- INTELLIGENT TRANSPORTATION SYSTEM USING RFID READER

DR. N.ANSGAR MARY

- AGRICULTURAL WEBSITE FOR CROP MANAGEMENT AND FUTURE GRAIN ANALYSIS

- BLOCKCHAIN BASED E VOTING SYSTEM

DR. SUJA A. ALEX

- WEAR RATE PREDICTION OF ALCOCRFENI HEA COATING ON STAINLESS STEEL USING MACHINE LEARNING TECHNIQUES

- ENHANCING MEDICATION ADHERENCE WITH CHRONIC DISEASES THROUGH IOT TECHNOLOGY: A NOVEL APPROACH

- INTELLIGENT MEDICATION COMPLIANCE SYSTEM FOR PATIENTS USING IOT

ER T M ANGELIN MONISHA SHAREAN

- AN ENHANCED FALL DETECTION SYSTEM FOR AUTONOMOUS SENIORS USING COMPUTER VISION AND ARTIFICIAL INTELL

- ANALYSIS OF BLOOD BANK DATA AND BLOOD GROUP DATA DISTRIBUTION

ER G.GEO JENEFER

- DECODING THE FUTURE : GATEWAY TO INFORMED REAL ESTATE INVESTMENTS

ER.P.AGNES ALEX RATHY

- FRAUD DETECTION IN HEALTHCARE INSURANCE CLAIMS USING BIG DATA ANALYTICS

- SECURITY CHALLENGES IN CLOUD ENVIRONMENTS: ADDRESSING ZERO-DAY ATTACKS

ER.ARUL REX A

- AN ENERGY EFFICIENT TRUST AWARE OPTIMAL INTRUSION DETECTION IN WIRELESS SENSOR NETWORK FOR MILITARY APPLICATION

Gallery

BOOK CHAPTER PUBLICATIONS

DR.N.ANSGAR MARY

SMART WEARABLE GADGET FOR WOMEN SAFETY(CHAPTERS IN BOOK)

DR. SUJA A. ALEX

LEARNER-CENTRIC TEACHING PRACTICES FOR ACHIEVING LEARNING OUTCOMES(CHAPTERS IN BOOK)

DIABETES PREDICTION APPROACHES: A SURVEY(CHAPTERS IN BOOK)

ER. T.M ANGELIN MONISHA SHAREAN

REMOTE- CONTROLLED LED IRRIGATION SYSTEM (CHAPTERS IN BOOK)

ER.G.GEO JENEFER

AN INGENIOUS FIRE PROTECTION SYSTEM (IFPS) - FUTURISTIC TRENDS IN ARTIFICIAL INTELLIGENCES (CHAPTERS IN BOOK)

ER.P.AGNES ALEX RATHY

IOT BASED AUTOMATIC FISH FEEDER USING MOBILE - FUTURISTIC TRENDS IN ARTIFICIAL INTELLIGENCE (CHAPTERS IN BOOK)

THIRD INTERNATIONAL CONFERENCE

The Third International Conference on Recent Advancement in Energy and Efficient Computing and Communication for Smart Systems was organized by the Department of IT, ECE and Physics on 23rd and 24th of April 2024.

INDUSTRIAL VISIT

The second year IT students (57 students and 3 staff members) went for an Industrial Visit to Nuclear Power Plant, Kudankuzham on 3rd May 2024.

The third year IT students visited Saahas Zero Wastes, Hindustan Aeronautical Limited, Vishveshwaraiah Industrial and Technological Museum, Nehru Planetarium - Banglaore on 2nd and 3rd of february 2024.

On 20th March 2024 the 2nd-year IT department, embarked on an enlightening industrial visit to the renowned Vikram Sarabhai Space Centre (VSSC) and Priyadharshini Planetarium in Thiruvananthapuram.

ALL INDIA TOUR

The Students of final year B.Tech Information Technology has visited Agra, Amristar, Manali and Delhi as a study tour from 5th to 16th of January 2024.