ST. XAVIER'S CAMPUS CONNECT

To create Artificial Intelligence Engineering Technologies with Divine Wisdom

Vision

To be an institution of eminence of optimal human development, excellent engineering education and pioneering research towards developing a technically-empowered humane society.

Mission

To transform the (rural) youth into top class professionals and technocrats willing to serve local and global society with ethical integrity, by providing vibrant academic experience of learning, research and innovation and stimulating opportunities to develop personal maturity and professional skills, with inspiring and high caliber faculty in a quality and serene infrastructural environment.

Contents

Upcoming Events

- **UG Inauguration - 13.09.2024**
- **ACE Installation - 17.09.2024**
- **XACA Installation - 23.09.2024**
- **One week student training programme on Electric Vehicle Technology - 23.09.2024 to 27.09.2024**

CORRESPONDENT'S MESSAGE

by Rev. Fr. S. Godwin Selva Justus

I always cherish the Independence Day celebrations. The collective responsibilities exercised by NCC, YRC, NSS and Fine Arts Club added beauty for the celebration. we are blessed with 25 ME students this year. We wish them a very success. Graduation day was a remarkable event. We could feel the happiness of the grandaunts on their faces. All the programs were conducted in a meticulous way.

Congratulations to the participants and the winners who indeed daringly attended the events conducted by Rotary Club. Whether we come back with prize awards or not, that is immaterial, but participation matters. By involving in any competition, one may learn a lot for life. One may fail in competition, but should not fail in life. To achieve greater things in life, participation in such competitions are needed.

Our college has a holistic view for a better future of a student. Therefore it has organized UPSC program that may help the students to clear some of the civil service related exams. I appreciate those students who have voluntarily joined and started preparing. All the departments through their associations, professional and non-professional cells start functioning effectively organizing hands on training, industrial visit and seminars inviting experts as resource persons. The responsibility lies on every student to make use of the possibilities that to mold them and form them in a proper manner to respond to the real life situations. The challenges for the forth coming years will be numerous.

May God Bless You All!

May you become an Effective and Efficient Engineer!

St. XAVIER'S CATHOLIC COLLEGE OF ENGINEERING (Autonomous)

Chunkankadai, Nagercoil - 629003
Kanyakumari District, Tamil Nadu

PRINCIPAL'S MESSAGE

It is my pleasure to appreciate the editorial team members of our Newsletter for bringing out this issue successfully.

We are tightly engaged with academic activities,cells activities, placement Training and drives. It is my duty to congratulate all staff members for their efforts for good admission in first year UG. After successful conduct of Students Induction program,we have started the regular academic classes for them. My appreciation to students got placed in Just Dial,Sai equipment.

My appreciation to 13 students from CSE and IT for bagging second prize in short film competition on cyber safety for women organised by District Police Department.

Value added course for final year Civil students by Edifice is going on. Training prog for final year girl students by Honey Well under their CSR activity is also on way. Placement training for final and third year students are also conducted by our Trainers.

This period is full of activities imparting technical and soft skills to students.

Congratulations

Dr. J. Maheswaran

Events

St. Xavier's Meritorious Graduate Award

St. Xavier's Meritorious Graduate Award for School Students was introduced during the silver jubilee finale to honor the SSLC and HSC students, who score the first two places (marks) among the students of the particular parish in SSLC and HSC board exams (Tamil Nadu), of both Kuzhithurai and Kottar Dioceses. Under this scheme, the award has been given to the meritorious students of Our Lady of Assumption Church- Melpalai, Church of Our Lady of snow- Manavilai, , Church of Our Lady of Assumption- Thazhayankonam, Our Lady of Assumption Church- Mathiravilai, Our Lady of snow Church-Maravankusieruppu, Church of Our Lady of snow- Pattarivilai, Our Lady of Assumption Church-Themanoor, Our Lady of snow church – Konnakuzhivilai, Church of St.Roch- Arockiapuram and Church of St.Pius X- Padarnilam.

INDEPENDENCE DAY

Independence Day was celebrated in our college premises on 15-08-2024. Our Correspondent Rev.Fr.S.Godwin Selva Justus hoisted the National Flag and delivered the presidential address. Our Principal Dr.J.Maheswaran gave a special address on that occasion. Earlier our NCC cadets performed March past. National Integration awareness cultural programs were conducted by the students. Prizes for the winners of various competitions conducted in view of Kargil Vijay Diwas were given to the cadets. Camp certificates were also distributed to the cadets.

INAUGURATION OF PG CLASSES

The Inauguration ceremony of PG students was held on 21.08.2024. The inaugural address was given by our esteemed Correspondent, Rev. Fr. S. Godwin Selva Justus. Following this, the features and unique aspects of the programs were detailed by the respective Heads of Departments. The Principal, Dr. J. Maheswaran, felicitated the event, offering words of wisdom and encouragement to the students.Dr. V. Christus Jeya Singh, the Vice Principal gave an overview on the rules and regulations of the College.The vote of thanks was delivered by the Faculty Advisor of XACA, Ms. M. Jasmin Annie Genefer.

GRADUATION DAY

The 22nd Graduation Day Ceremony was held on the 24th of August, 2024, at 10:00 AM in the St. Carlo Acutis Auditorium. The event was graced by the presence of a distinguished chief guest, Thiru Joy P. Varghese, an outstanding scientist and the Site Director of the Kudankulam Nuclear Power Project, Nuclear Power Corporation of India Ltd., who delivered an inspiring address. The ceremony was also blessed by Most Rev. Dr. Albert Anasthas, the Bishop of Kuzhithurai Diocese, whose presence added a spiritual dimension to the occasion.

STUDENTS ACHIEVEMENTS

- **Rotary club, Nagercoil conducted ROTAUTSAV- 2024 (Cultural Competitions) on 5th and 6th August. Our students ,Anto Rinila .A and Dharani .K of final CSE won the Second prize in Quiz, Jelesha I .J of final CSE won the Second prize in Pudhu Kavidhai, Jeslin Raj .R won the third prize in Story Writing-English and Fathima Renosha .M of final ECE won the Second prize in Group Discussion.**
- **U. Arockia Fedrick Revin of III ECE is selected as the Regional Finalists for "MEET OUR PROUD VOICE OF YI SRTN FUTURE 4.0".**

ACADEMIC ACTIVITIES

St. Xavier's Academy for Career Advancement organized an event titled **"Motivation Program on UPSC Foundation"** designed to provide valuable insights into competitive exams on 13.08.2024. The primary objective of the program was to equip students with a strong and comprehensive foundation for the Civil Services Examination. Resource persons shared inspiring stories of successful candidates who had cleared the exam. The session commenced at 9:30 am with a welcome speech by Arathi Krishna K G, a final year student from the ECE Department.

The REACH Association of Department of Civil Engineering, organized a **seminar on precast concrete structures for sustainable construction** on 08/08/2024. The Resource Person was Dr. Appa Rao G, Professor, IITM. 71 Students from II, III and IV year Civil Engineering and research scholars attended the seminar. The session provided basic knowledge on precast concrete structures pertaining to sustainable construction. The seminar was very informative and the students gained knowledge on the sustainable building practices, real-time precast applications.

The Department of Computer Applications organized a one day workshop titled **"Mobile Design UX"** on 21-08-2024.Session started at 9:00 a.m by resourse person Ms.Sahaya Monisha, Network System. The main objective of the workshop was to make the students how to create a prototype model using figma tool.Hands on training is conducted during the afternoon session.65 students participated in the workshop. The session ends at 4:15 pm.

The Computer Science and engineering department recently hosted an insightful guest lecture on **"Lobbying Institutions"** on 10/08/2024, led by Ms. Kirubin Sheeba A. G., an expert in Labour Law and the Workman Compensation Act. It was conducted for our IV year students. Ms. Sheeba delved into the intricacies of lobbying, highlighting its role in shaping public policy and legislation. With real-world examples and case studies, she provided students with a nuanced understanding of how lobbying influences labour laws and the ethical considerations involved. The session was highly engaging and offered valuable perspectives on the intersection of law and advocacy.

The Department of CSE and AI & DS organized a Seminar on **Augmented Reality (AR) and Virtual Reality (VR)** on 20/08/2024, hosted by Mr. S. Sundara Raman and Mr. M. R. Raswanth from Scopick Edutech Pvt Ltd., Chennai, offered an in-depth exploration of these groundbreaking technologies. Our II year CSE students attended the session. Attendees gained a comprehensive understanding of AR and VR, including their core differences, technological advancements, and practical applications across various industries.

- A seminar on **"Immersive Technology in AR & VR"** was conducted on 19th August 2024, from 01:00 p.m. to 2.30 p.m. for the final year ECE students at Seminar Hall. Mr. Sundara Raman, National Head, Scopik Edutech, Chennai, offered an insightful overview of developments in augmented and virtual reality.
- A Seminar on **"Digital Marketing"** was conducted on 23rd August 2024, from 02:30 p.m. to 4.15 p.m. for the second year ECE students. Mr.Ashok Remi John, CEO, Makos Infotech Pvt Ltd, Chennai, provided an in-depth overview of the current landscape and strategies in the digital realm.

- The Department of Information Technology, in collaboration with BRIGITZ at St. Xavier's Catholic College of Engineering, organized a seminar on **"Cybersecurity"** on 19th August 2024 for the final year IT students.
- The BRIGITZ organized a seminar on **"Data Science with AI"** for the second year students of IT with K. Ulagammal, Data Analyst, Network Systems as the resource person.

- The Department of AI&DS organized a Hands-on session on **UI/UX Design using Figma** on 13/08/2024. Mr. Ezhil Arasu, the resource person, delivered an informative and practical session, guiding participants on how to use Figma for designing and prototyping websites, mobile apps, and other digital products. He also conducted hands-on sessions, helping participants learn to use the Figma design platform efficiently.
- A Career guidance program on **"To get a job in Core Company"** was conducted on August 23th, 2024, from 01:00 p.m. to 4.15 p.m. for the third and final year ECE students. Mr. S. Kumaresan, Technical Manager, CAD ARTS, Nagercoil, focuses on helping students to understand the skills, qualifications, and pathways required to enter fields like manufacturing, engineering, or energy.

FACULTY ENHANCEMENT PROGRAMME

The Faculty Enhancement program on August 12, 2024 began with a prayer song. Dr. J. Maheswaran, Principal welcomed the participants and highlightened the seminar's importance. The Correspondent, Rev.Fr.S.Godwin Selva Justus inaugurated the event. Rev. Fr. Dr. Kumar Raja from Thoothukudi Diocese delivered a keynote on mentoring youth and prompting valuable discussions. Participants feedback was collected to assess the seminar's impact and areas for improvement. The event concluded with a vote of thanks by Dr. V. Vijimonmoni, Coordinator/H&Sc.

FDP on "Cloud DevOps"

A one-week FDP on 'Cloud DevOps,' sponsored by ATAL, was organized by the Department of Information Technology from the 19th to the 24th of August, 2024. The FDP was inaugurated on 19th August, 2024, by the Correspondent, Rev. Fr. S. Godwin Selva Justus, and the Principal, Dr. J. Maheswaran.

The Department of AI&DS organized a seminar on **Cyber Security** and Ethical Hacking on 03/08/2024. In the morning session, Mr. Iyyapan covered the topics of "Cybersecurity and Ethical Hacking," while in the afternoon, Mr. Gnana Sekar discussed the concepts of Machine Learning and AI. The sessions were highly beneficial for the students, and they gained a lot of valuable knowledge.
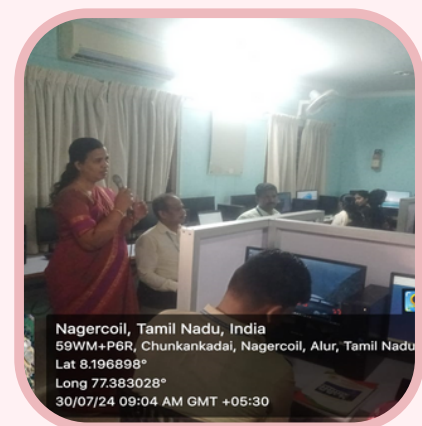
- The Department of AI&DS organized a seminar on **AR/VR** on 07/08/2024. Ms. Diya, a third-year AI & DS student, led the session, where she explained the concepts of Augmented Reality and Virtual Reality to the students.
- The Department of AI&DS organized a seminar on **photoshop** on 07/08/2024. Mr. S. Benziher, Skilled Assistant, SXCCE, provided a clear explanation of Photoshop concepts to the students and conducted a hands-on session focused on image editing.

- The final year IT students had a **question & answer session on Career guidance** on 21st August 2024 with Mr. G. Roy Antony Arnold, Scrum Master, Lead Infosys as the resource person.
- The second year IT students had a **workshop on "AR-VR"** on 20th August 2024.
- The third year IT students had a **seminar on "Wireframe design for Mobile and Web App"** on 19th August 2024 with Ms. T. L. Thanika, Designing Expert, Networks Systemz as the resource person.

Value Added Course

Department of Computer Applications conducted a Value-Added Course from 30.07.2024 to 2.08.2024 titled **"Data Analytics and Visualization using Tableau & Power BI"** aimed to equip students with the essential skills required for effective data analysis and visualization using two of the leading business intelligence tools available today: Tableau and Power BI. The main objective is to understand the fundamentals of data analytics & visualization and to develop practical skills in using Tableau and Power BI for data analysis.

INDUSTRIAL VISIT

- The Department of Information Technology organized an Industrial Visit to **Mafiree, Miru Info Park,** Vallankumaravilai For the third year students on 23rd August 2024.
- On August 9th, 2024, a group of 60 B.Tech IT students visited **Ranu Food Industry**, an industry specializing in the import of raw wheat products and their processing into maida, wheat flour, and rava.

- The Department of Computer Science and Engineering organized an industrial visit to to **Roriri Software Solutions Pvt. Ltd.**, a prominent software development company, for the second-year students on 14/08/2024. Selvakumar.S Strategic Manager,Technical Trainer Data Analyst, Team Lead spoke to the students. The objective of the visit was to provide students with practical insights into the functioning of a software company and to expose them to the latest industry trends and practices.

- 64 students of II MCA visited **Cape Start Software Pvt Ltd**, Nagercoil, on August 6, 2024, accompanied by two staff members.The session started at 10:30a.m. Cape Start staff presented a seminar about the company overview, facilities, human resource management, soft skills, and career counseling for the students.

- A local visit has been arranged from REACH Association, Department of Civil Engineering on 10-08-2024 to the **National highways bridge works at Kottaram and Chunkankadai**. The various components of bridge like Pier, abutment, Pile, deck was on the site and it was briefly explained. Students were taken to the laboratory, were various test for bridge elements were conducted. Tests like pile load test, CBR test, Compression test, pullout test were demonstrated. The structural components such as piers and abutments were explained. From the visit, the students learnt about the various components and construction practices followed in bridge construction.

- A field trip to **"Horticulture Farm, Pechiparai"** was organized on August 27 th, 2024, from 09:00 a.m. to 4.15 p.m. for the final year ECE students. Mr. Siva, Farm Manager, Horticulture farm, Pechiparai, provided valuable insights into modern agricultural practices. Students were introduced to various horticultural techniques, including organic farming, crop rotation, and irrigation systems.

PLACEMENT ACTIVITIES

TRAININGS

- **Zoho** company specific Placement Training was conducted for the final year students from 24/8/2024 to 29/8/2024 by Mr.M.Gino, Software Developer at Zoho, Mr.Allan Mathew software Developer at H&R block and Alumni Mr. P.Nithish. Students were trained in Coding and Quantitative Aptitude domains.

Placements

- **Zoho Corporation**- Off Campus Placement Drive was conducted for B.E/B.Tech – CSE,IT,EEE,ECE,MECH on 30/08/2024 and 31/8/2024. Salary package is Rs.5.6 to Rs.8.4 Lacs per Annum (CTC). Rufina J, CSE Dept., got internship offer and on successful completion of the internship, placement offer will be provided.

COE ACTIVITIES

April/May 2024 Phase-II Examinations
- Tenth Result Passing Board Meeting was conducted on 02-08-2024 to pass the results of R-2022 second and fourth semester B.E./B.Tech., M.E., M.B.A. and M.C.A. programs.
- Result was published on 03-08-2024.
- Revaluation was conducted on 30-08-2024 and 02-09-2024.
- Revaluation result was published on 03-09-2024.

CELL ACTIVITIES

- **Partition Horrors Remembrance Day** is an annual national memorial day observed on 14 August in India, commemorating the victims and sufferings of people during the 1947 partition of India. As directed by the NCC unit, our cadets also observed Partition Horrors Remembrance Day. Posters containing the details and photos of events occurred in 14-Aug 1947 were displayed to cadets through social media. The related videos were also sent in WhatsApp and Instagram so as to reach maximum number of cadets and public. About 65 cadets and 200 people got impacted by this event.

- The **Anti-Ragging Committee** meeting was conducted at St. Xavier's Catholic College of Engineering at 2:30 PM on 30-08-2024 in the Board Room. As per the directions of AICTE, UGC, and Anna University, the Anti-Ragging Cell conducted the meeting for both external and internal members.

Non Professional Cell Inauguration

On August 29, the inauguration of the Non-Professional Cells took place in the Seminar Hall at 2:45 pm. The Principal delivered an introductory address, followed by the Faculty Advisors of all 20 clubs introducing the newly elected office bearers for the upcoming academic year.The Correspondent, Rev. Fr. S. Godwin Selva Justus, elaborated on the distinction between professional and non-professional cells, providing valuable insights to the students. The Vice Principal then delivered a motivational speech, inspiring the students to take an active role in the cells.

INAUGURATION OF PROFESSION CELL

The Common inauguration of the Professional cells was conducted on 28th August in the Seminar hall. Around 15 clubs were there. Faculty Advisors of the concerned clubs introduced the new office bearers. The Annual plan was projected in the ppt. The Correspondent, Principal and the Dean/ Research addressed the gathering. The Program came to an end by 4.30pm

- **Smart India Hackathon** (SIH) 2024 aims to provide students with a platform to develop innovative solutions to everyday problems, and to foster a culture of problem solving and innovation. St. Xavier's Catholic College of Engineering organized internal hackathon for SIH 2024 on 28.08.2024. Students from various departments participated in the event and presented their innovative ideas based on SIH problem statements.

- MSME organised a seminar on **Angel investors VC funding opportunities** for early.The program was held in the CAM lab of Mechanical Engineering department on 29.08.2024 from 10.00am to 1.00pm. Explanation about the source of funding for an entrepreneur was vivdly explained . Concepts such as angel funding and venture capital and the differnce between the two were covered.

- Institution's Innovation Council organized a seminar on **"Opportunities for Students as Early-stage Entrepreneurs"** on 19.08.2024 in the Department of Civil Engineering. The Resource Person was Mr. D. N. Graceson, Assistant Professor, Department of Mechanical Engineering, Marthandam College of Engineering and Technology. The seminar began with the Welcome Note by Ms. L. Porcia, AP/Civil, the IIC Member. The objective of the seminar is to give an insight of the opportunities available for students as entrepreneurs.

- The Radio club recorded the kaloori Kalatta program on 09-08-2024 at ALL INDIA RADIO KONAM, to be broadcasted on the day of Independence through AIR. The students enjoyed the recording by sharing the history of the leaders who struggled for freedom.
- The Radio club recorded a quiz program on 21-08-2024 to be broadcasted on 23-08-2024, the day India celebrated its first National Space day.

A seminar on **'Drug Awareness'** was given to the students by Mrs Jothi lekshmi, Inspector, Mrs.ThomasLysa,Sub Inspector,PEW,Thuckalay, Dr Ancy, District Tobacco Consultant, Kanyakumari on 27.08.2024. The resource persons gave a detailed description on various situations which makes a person to use drugs and the ways by which how one drunkard person can come out of that situation.

- **SPRINTZ,** an intra-college hackathon is organized to foster innovation, creativity, and collaboration among students within the college. The hackathon is organized in two stages, Level-1-Ideathon and Level-2-Hackathon. Level 1 Ideathon is conducted on 13.08.2024 and 22 teams participated in the competition. The Level 2 is scheduled to be on 26.09.2024.

A Seminar on **" Lean start-up and Minimum viable product "** was organized by CII-YI-YUVA on 29-08-2024 at 9.00 a.m. in the EEE Seminar Hall. The Resource person of this event was Mr. Gokul Kumar S, Co-Founder Flutterfrog Software Solutions and Mr. Nishwin Isaac, Director of Arctic9 Creative Agency. This seminar proved to be highly beneficial for students by preparing them for careers in entrepreneurship and innovation, encouraging creative thinking, and offering valuable networking opportunities

CII-Yi-YUVA was conducted Phase1 Chapter Level **Yuva Round table Brainstorming discussion** at St. Xavier's Catholic College of Engineering on 10.08.2024 from 2.30 PM to 04.30 PM. 10 students participated and presented their solutions in front of the jury member. The winners of both the themes will be participating in the regional and if selected in the National Event. This enhances students critical thinking, problem-solving, and creative abilities

RESEARCH ACTIVITES

- **Dr.L.Femila, AP/ECE** has published a paper on " Hybrid Energy-Efficient Distributed aided frog leaping dynamic A* with reinforcement learning for enhanced trajectory planning in UAV swarms large-scale networks", Concurrency and Computation: Practice and Experience, August 2024.
- **Dr. P. Antony Vimal, AP/Civil** published a paper on topic, "UNSYMMETRICITY EFFECTS ON SEISMIC PERFORMANCE OF MULTI- STOREY BUILDINGS", Discover Applied Sciences, 2024, DOI: https://doi.org /10.1007/s42452-024-06099-3, Volume 6, article number 476(2024).
- **Dr M.MARSALINE BENO, Dean, Research,**"Sustainable Hybrid Electric Bike: A Path Towards Greener Mobility" Journal of Road Transport , Vol.2,June to September 2024.

1. **Dr. M. Marsaline Beno, Dean, Research,** conducted a Motivational Program on "Roles and Responsibilities Parents and Students" for the Academic Success of Students at Holy Angel Matriculation School. Melpuram, on 10/08/2024.

2. **Dr.M.Marsaline Beno, Dean, Research,** conducted a Seminar on" Year of Prayer 2024" organised by Kuzhithurai Diocese for the Office Bearers of all the Diocese Commissions on 03/08/2024.

EDITORS

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