

ST. XAVIER'S CAMPUS CONNECT

VOLUME V, ISSUE 11

JUNE 2025

"TO CREATE ARTIFICIAL INTELLIGENCE ENGINEERING TECHNOLOGIES WITH DIVINE WISDOM"

CORRESPONDENT'S MESSAGE

by **Rev. Fr. S. Godwin Selva Justus**



Dear St. Xavier's Family,

It gives me great joy to connect with you once again through this Campus Connect. I hope you have all begun to enjoy your vacation. I'm particularly pleased to note that several faculty members from the CSE, AI, and IT departments have opted to take part in internship programs both in Chennai and within Kanyakumari district. This is indeed commendable. I trust that more of you will pursue such hands-on experiences in the future, as they play a vital role in enhancing our teaching effectiveness. Practical exposure is essential not only for students but also for faculty members.

I would also like to appreciate our college principal for making the "Professor in Practice" initiative mandatory. We are about to engage with a new generation of students who will challenge us in many ways. Hence, it is crucial that we equip ourselves with the necessary knowledge and experience to guide them effectively.

Recently, we have welcomed several new teaching and non-teaching staff members into our institution. Let us extend a warm welcome to them as they join the St. Xavier's Family. It is our duty to lead by example and act as role models for our new colleagues. As you all know, ours is an English-speaking campus. Therefore, we must consistently use English while interacting with colleagues, students, and visitors. This practice will help our students gain confidence and perform well during campus interviews.

As we prepare to begin the new academic year in July 2025, let us draw inspiration from great achievers in various fields. Those of you who have completed your Ph.D. are encouraged to continue your research journey through regular paper publications. Holding a doctoral degree alone will not be sufficient in the long run. As members of a research institution, we must strive to become distinguished researchers. Our work ethic and methods should inspire students to rise and shine as future leaders of the nation.

One exciting development is that Friends ITI has now become part of our institution. This opens up opportunities for collaborative programs that can mutually benefit both institutions.

Finally, I want to emphasize the importance of shared responsibility among faculty members. Be it in areas such as student discipline, dress code, language, grooming, punctuality, or academic performance; let us work together as a team. Let us not isolate ourselves within our departments but instead interact and think across disciplines. With a strong sense of unity and collaboration, we can take our college to even greater heights.

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.

- Events
- Students Achievements
- Academic Activities
- COE Activities
- Cell Activities
- Research Activities
- Others

Contents

Upcoming Events

- Finance Committee Meeting - 12.06.2025
- Second Semester UG End Semester Examination starts on 23.06.2025
- A one week FDP on Electric Vehicles & Hydrogen Fuel Cell Vehicles: Technologies, Challenges and Future Prospects (21.07.2025 - 26.07.2025)



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

Chunkankadai, Nagercoil - 629003
Kanyakumari District, Tamil Nadu

Approved by AICTE & Affiliated to Anna University, Chennai
Accredited with 'A' Grade by NAAC
UG Programs(ECE, EEE, Mech, Civil, CSE & IT) Accredited by NBA
Anna University Recognized Research Institute
Recognized under section 2(f) & 12(B) of UGC Act, 1956
UG Programs(ECE, EEE, Mech, Civil, CSE & IT),
MBA & MCA Programs Permanently Affiliated

PRINCIPAL'S MESSAGE

Dr. J. Maheswaran



My appreciations to the editorial team members of our Newsletter for bringing out this issue successfully. Our final year UG students have successfully completed their program and our best wishes to them for their prosperous future.

Second and third year students also completed their semester end examinations and undertaking their Internship in reputed Organizations and Companies, It is a pleasure to note that some faculty are also planning to attend Internship.

First year students are at the verge of preparing for their examinations.

All the best to them.

In this period, statutory Committee meetings of Autonomous were conducted with external Experts.

We are ready to welcome the upcoming Academic year

All the very best

EVENTS

Taking over Friends ITI



On 23-05-2025 at 9:00 am, the administrative rights of Friends ITI, Mathicode were officially handed over to St. Xavier's Catholic College of Engineering, Chunkankadai, at a ceremony held on the ITI campus. The event began with a prayer song, followed by felicitation from dignitaries highlighting the institution's mission. The agreement was signed on behalf of the The Most Rev. Dr. Albert Ansthas, Bishop of Kuzhithurai Diocese. The new Correspondent, Rev. Fr. S. Godwin Selva Justus, and Director, Rev. Fr. Antonymsamy, assured continued growth and commitment to empowering rural youth through skill-based education.

Thanksgiving Mass & Retirement Function



The retirement function of Mr. M. Thomas Mathiyas, Dr. M. Vijaya Kumar, and Mrs. J. Amala Pushpam was held on 30th May 2025 at 2:30 PM in the Conference Hall to honour the retiring staff for their dedicated service. It began with a thanksgiving Mass, followed by a prayer song by the Staff Choir. Dr. S. Edwin Gladson delivered the welcome address. Retiring staff members were honoured by the Management and Staff Club. Tributes and felicitations followed, and the event concluded with acceptance speeches, vote of thanks, the College anthem, and refreshments.

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 HSS board exams (Tamil Nadu), of both Kuzhithurai and Kottar Dioceses. Under this scheme, the awards have been given to the meritorious students of the St. Xaviers Church- Vencode, St. Joseph Church- Kalkurichy, St. Joseph Church- Manchadi, St. Joseph church- Kamplar, Church of our Lady of Lourth - Punnai Nager, St. Francis Church - Mankuzhy, St. Francis Xaviers Church - Kuzhivilai, Church of our Lady of Fathima - Kallukootam, Church of our Lady of Annunciation - Kattuvelai, St. Antonys Church- Kappucadu, Immaculate Heart of Marys church - Maniyarankuntu, Church of sacred heart of Jesus - Idayapuram, St. Micheal Church - Choolal, St. Fathima Church - Fathimapuram, St. George Church- Thalavaipuram, Church of our Lady of mount Carmel - Kolvel, St. Antonys Church - Thundathuvilai, St. Rita Church - Reethapuram, St. George Church - Pilavilai, Church of good Shepherd - Velliavilai, Church of the Accention of our Lord - Thiruvitancode, St. Antonys Church - Appattuvilai, St. Antonys Church- Irumpili.



STUDENTS ACHIEVEMENTS

- **140 students** successfully completed various NPTEL courses from January to April 2025, achieving Elite, Silver and Topper.
- **Merlin Suji Y** from ECE department received the Topper award for the NPTEL course Air Pollution and Control.
- **Ashika S S** from Third Year ECE department has been selected for the EE Summer School 2025 (EESS'25) at IISc Bangalore, organized by the Department of Electrical Engineering, in collaboration with IEEE Bangalore Section and IEEE PES Bangalore Chapter. The 3-day event will be held from 10th to 12th July 2025 at IISc.
- **Ashika S S** from Third Year ECE department have been selected as an IEEE STEM Champion.

ACADEMIC ACTIVITIES

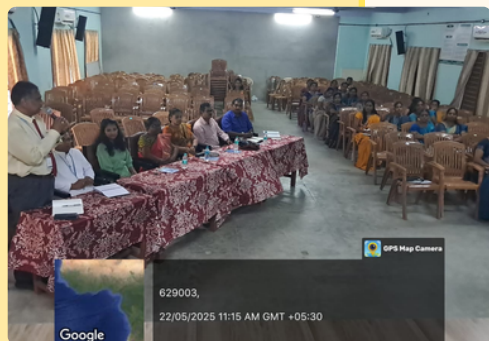
INTERNATIONAL CONFERENCE - ICASME '25



The fifth international conference ICASME'25 organised by department of Civil Engineering and Chemistry on 29-05-2025 and 30-05-2025. The professor of IITM, Dr. Appa Rao and VIT Professor, Dr. Santhosh were the special invitees of the conference on the first day. The inauguration ceremony was chaired by our correspondent Rev. Fr. Godwin selva Justus. Second day Dr. S Ananthakumar, Chief Scientist, CSIR and Dr. U Johnson Alangaram, Professor, University of Malaya, Malaysia gave a technical talk. About 86 papers were presented in the conference via online and offline. The participants were highly benefited by the event.

The Association of Computer Engineers organized a **Faculty Enrichment Program on Big Data Analytics and visualization** from 14th to 20th May 2025, aimed at enhancing faculty knowledge in cutting-edge data technologies. A total of 101 participants took part in the program which featured expert sessions by Mr. Sobin J. M (CEO, Rexcoders), Mr. Manoj Kanagaraj (Rexcoders), Mr. R. Edwin Jose R, Mr. R. Benson (Technical Lead, H&R Block) and Dr. J. V. Bibal Benifa (Associate Dean, IIT-Kottayam). The sessions provided valuable insights into Big Data tools, technologies and applications, significantly enriching the academic and practical understanding of all attendees.

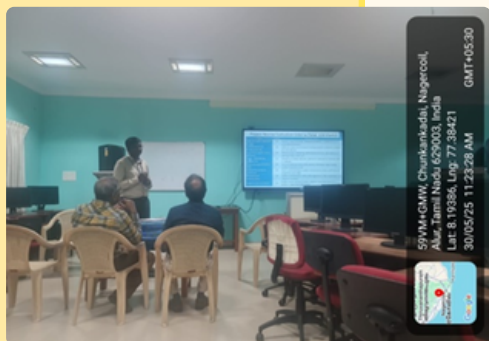
The Department of Computer Applications organised a five-day **Faculty Developed Program on Quantum Computing and its Applications** from 26-05-2025 to 30-05-2025. The program was inaugurated on 26-05-2025, at 10:00 AM by our Principal, Dr. J. Maheswaran, who warmly welcomed all participants. Ms Gayathri introduced the resource person for the inaugural session. The first session was delivered by Dr. Kunwar Singh from NIT Trichy. A total of 146 participants attended the FDP. The FDP offered valuable insights and inspired participants to pursue future research in quantum computing.



The sixth Board of Studies (BoS) meeting for the **Department of ECE**, with the University nominee, was held on May 22, 2025, at 10:00 a.m. in the Einstein Seminar Hall. The Principal, Dr. J. Maheshwaran, delivered the introductory address. Dr. S. Caroline, Head of the Department of ECE, presented the updates made following the previous BoS meeting, approval for the semester VIII B.E course and Dr.Y.R.Annie Bessant Associate Professor ECE outlined the curriculum and syllabi for the first semester of the M.E VLSI design course. Our correspondent, Rev. Fr. S. Godwin Selva Justus, offered his suggestions.



The sixth BoS meeting of the **Civil Engineering Department** was held on 26/05/2024. The HoD presented the minutes of the previous meeting and action taken report, which were confirmed by members. Key updates included changing the planning software in “Construction Planning and Project Management,” refining open elective syllabi, and renaming “Design and Product Development” as “Mini Project.” Case studies were added to the “Green Building” course. The syllabus for the 8th semester was approved. Credit transfer for NPTEL course “Remote Sensing Essentials” was sanctioned. It was also suggested to involve industrialists in evaluating industry-based projects.



Sixth Board of Studies (BoS) meeting of **Mechanical Engineering department** was conducted on 30-05-2025 by hybrid mode at 11.00am. Dr. M. Antony Forster Raj has initiated the BOS meeting by introducing the external members and internal members. Dr. G. Antony Miraculas, chairman of the Board of Studies (BoS) shared the proposed curriculum and courses of eight semester UG Mechanical Engineering and started the discussion. The Principal expressed sincere gratitude to the BoS members for their consistent and active participation in the BoS meetings held every six months since 2022.

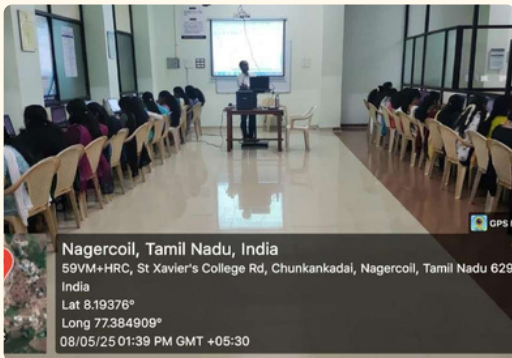


The sixth Board of Studies Meeting of **Faculty of Computer Science and Engineering and Information Technology (CSE,IT,AI&DS and MCA)** with the University nominee, was conducted on 26-05-2025 in the Board Room. The Principal Dr. J Maheshwaran delivered the introductory talk. The chairman of the BoS shared the proposed curriculum and eight semester course CS22801- Project Work /Internship. The course were reviewed and approved. Credit transfer courses were approved by the BOS members.



The Sixth Board of Studies meeting of **EEE department** was conducted on 30th May 2025 from 10.30 A.M – 12.30 P.M in the Board Room. The Head of the Department Dr.S.V.Kayalvizhi presented the fifth Board of studies meeting minutes and decision/action taken report followed by discussion on the suggestions / recommendations offered by the members in fifth BOS meeting. She also presented the Eighth semester courses, course outcomes and detailed draft syllabi. The members Dr.V.Suresh Kumar(Anna University Nominee), Dr. G. Saravana Ilango (Academic Expert) Dr.S.Solai Manohar, Academic Expert, Er. S.Emil Jeba Singh (Industry Expert), Er.P.Merlin Kumar (Alumnus) gave valuable suggestions regarding the curriculum of UG program.

On 10th and 16th of May, 2025, 375 first-year students from various departments, along with 18 faculty members, visited the District Science Centre in Tirunelveli. The trip included interactive sessions across multiple galleries such as the Fun Science Gallery, Electronics Gallery, New Wings of Electronics, Mirror Magic, and the Famous Scientists Gallery. The visit provided valuable hands-on learning, reinforcing theoretical knowledge through real-world scientific applications. The team returned to campus by 4:30 p.m., enriched with knowledge and memorable experiences.



SPSS Program on Research methodology and data analysis Part I and Part II was conducted on 08th of May 2025. The Program was handled by Mr.S.Victor, Asst. Professor and Head Department of Management studies, Regional Campus, Anna University, Tirunelveli Region. He conducted a training of statistical Analysis and interpretation with the help of SPSS Package and explained about the procedure for Testing of Hypothesis, concept of P-value, parametric and Non-parametric test and how to interpret the results

The Department of Humanities & Sciences organized a motivational talk titled **“Your Journey, Your Strength”** on 7th May 2025 at 1.00 PM in Einstein Hall. Dr. V. Vijimonmoni outlined the program’s objectives. Mr. Florin Raja Singh, Assistant Professor in the ECE Department at SXCCE, delivered an inspiring talk aimed at motivating slow learners. His message focused on self-belief, perseverance, and staying positive through life’s challenges.



The **Valedictory Function of the ADAX Association**, was held on May 2, 2025. Our Correspondent, Rev. Fr. S. Godwin Selva Justus, delivered the presidential address, setting an inspiring tone for the event. Our esteemed Principal, Dr. J. Maheshwaran, graced the occasion with his heartfelt felicitation. Dr. R. Jemila Rose, Head of the Department, was also present to grace the occasion. Dr. A. Annie Portia, Faculty Advisor of the ADAX, addressed the gathering. The Certificates and prizes were distributed to the participants and winners from the II year and III year AI & DS students.

On 29th May at 11.30 A.M, the 6th Board of Studies Meeting for the **Department of Management Studies** was held at Einstein Hall, SXCCE. The Board members discussed about the Main Project, Online courses, Event participation, Publication of research papers, Field Assignment, Publicity, Bridge course program, Industry Interaction programs, Alumni groups, Internship, Placement, MoU with Industry, Club Activities, TCP course, Enhancing Employability Through Vocational Skills and Industry Experience, Bridge course, Admission Analysis, Create Awareness and many other discussions were held.



COE ACTIVITIES

Nov./Dec. 2024 Examination Audit

Examination audit of Nov./Dec. 2024 examinations was conducted on 06-05-2025 by Dr. G. Rajakumar, Controller of Examinations, Francis Xavier Engineering College, Tirunelveli.

April/May 2025 Examinations

End semester practical examinations for fourth, sixth and eighth semester B.E./B.Tech., second semester M.E., M.B.A. and M.C.A. programs were conducted from 08-05-2025 to 14-05-2025.

End semester theory examinations for fourth and sixth semester B.E./B.Tech., second semester M.E., M.B.A. and M.C.A. programs are being conducted from 19-05-2025.

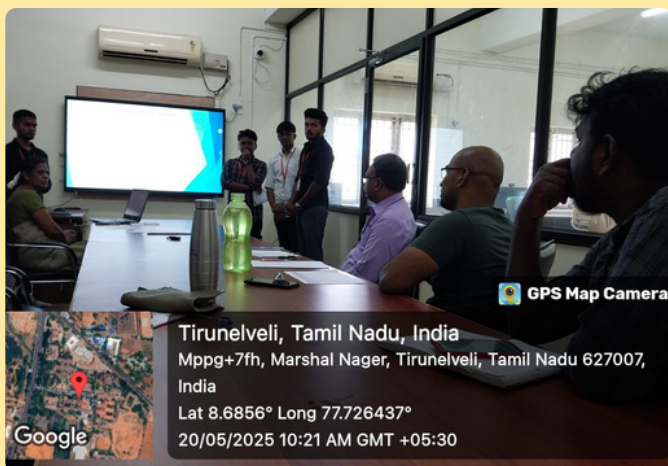
Thirteenth result passing board meeting to pass the results of eighth semester B.E./B.Tech. project was conducted on 19-05-2025.

Results of all clear students of eighth semester B.E./B.Tech. programs were published on 20-05-2025.



CELL ACTIVITIES

The **IQAC** in collaboration with the Mechanical Department of St. Xavier's Catholic College of Engineering, conducted a workshop on "Innovation through 3D Scanning & Printing" on 7th May 2025. Mr. Anesh Darrel Arul Sekhar, Executive Director of The Darrels Group, served as the resource person. The session covered key concepts in 3D scanning, modeling, and printing. Real-time demonstrations showcased industrial applications of the technology.



The **Niral Thiruvizha 2.0** is an annual innovation and skilling challenge organized by the TNSDC under the Naan Mudhalvan initiative. It received 15337 idea submissions from student teams across 312 Engineering institutions. These ideas were thoroughly evaluated by an expert panel and 1000 top ideas were selected. The selected project teams will be receiving a fund of Rs.10000 from the Niral Thiruvizha 2.0 team. Three ideas were selected from our college and the grand final review was conducted in Government College of Engineering, Tirunelveli on 19.05.2025 (Team 1), 20.05.2025 (Team 2) and 21.05.2025 (Team 3).

The **Math Club** organized a workshop on Mathematical Modeling and Computation for Engineers Using Scilab on 09-05-2025 at 1:00 PM in the GC lab. Mr. Harikrishnan Nair conducted sessions on Scilab programming, Xcos simulations, and project development, with positive student engagement.



The **Annual Training Camp** was conducted at NVKS Sr Sec School, Attoor from 6-5-25 to 15-5-25. Sixteen cadets, 10 SD and 6 SW cadets from our college attended the camp. In order to incorporate overall training to the cadets, 108 Ambulance – First Aid Demonstration, Disaster Management Seminar, Fire and Rescue Demonstration, Drug abuse and illicit trafficking awareness rally and Lecture cum demonstration on Section formation & Bunker bursting were conducted during the camp. Our ANO Maj S Edwin Gladson was the Camp Adjutant. Cadet Jerin J S got first prize in Solo dance competition. Our SD cadets got prizes from camp commandant for Pyramid. SW cadets participated in Kho Kho competition and got prizes.



Four cadets of our college attended the **Army Attachment Camp** at 7 Engineer Regiment, Secunderabad, from 19 May 2025 to 30 May 2025. These cadets were exposed to Regular Indian Army training & routine. Opening address was given by Lt Col Nadeem Khan, Commanding Officer, 7 Engineer Regiment. Latest equipment layout and briefing was done by Nb Sub Binu Kumar and Hav Karthik. Cadets also visited EME Archives and Museum. Totally sixty nine cadets from Tamil Nadu participated in the camp. Our cadets performed well in this camp.



Madurai Group Commander Col Chauhan visited 11 (TN) BN NCC, Nagercoil for the purpose of Adm inspection on 28-05-25. Our ANO and five cadets attended the program. As a part of the program Guard of Honour was given to the Group commander. Our cadet **CUO Shergin Sam** was the Guard commander. Gp Commander appreciated our cadets.



The **CATC cum IUC TSC camp** was conducted at NTA, Idayapatti, from 9-5-2025 to 18-5-2025. The camp was organized by 7 (TN) BN NCC, on behalf of Gp HQ, Madurai. Eight SD cadets and one SW cadet were selected to attend this camp and they represented 11 (TN) BN NCC, Nagercoil. Three cadets were selected in the category 'Map Reading', three cadets for firing, and three cadets for 'Health & Hygiene'. After successful completion of the camp eight cadets were selected to attend CATC cum Gp TSC Trg I to be held at NTA, Idayapatti, from 21-5-2025 to 30-5-2025.

RESEARCH ACTIVITIES

Journal Article Published

- Preethi, B.C. (2025) 'Transmission power minimisation in nano biosensors for largescale flow-guided intra-body communication', Int. J. Sensor Networks, Vol. 48, No. 1, pp.1–12.
- Abragam Ziyon Sing M, Marsaline Beno M , Enhancing energy efficiency in educational institutions: a scalable, integrated framework for cost-effective and sustainable energy management, Environment, Development and Sustainability, 2025 (May), 1-28

Resource Person

- Dr. M. Marsaline Beno, Dean, Research conducted Career Guidance for Students at Ananthan Nager Parish Career Guidance Event on 11/05/2025
- Dr. M. Marsaline Beno, Dean, Research conducted Career Guidance for Higher Secondary students at Saral Parish on 18/05/2025
- Dr. M. Marsaline Beno, Dean, Research acted as Moderator for Panel Discussion at Energathon 2025, titled Advancements in SDG 7,9,11,12,13 on 17/05/2025
- Dr D.X. TITTU GEORGE has delivered a Guest Lecture on the topic "Advanced Energy Storage systems" for the mechanical engineering students of Stella Mary's College of Engineering on 12.05.2025

As a Journal Reviewer

Dr A. Anisha acted as reviewer for IET Image Processing journal and reviewed paper titled "DAT-MIL: Leveraging Deformable Attention for Weakly Supervised Prostate Cancer Histopathological Image Segmentation".

"Machine Learning and IoT-Based Device to Measure Sugar Levels in Diabetes Using Saliva" has been officially registered under Design No: 47439-001 on 08/02/2025 in Class 24-01. This innovative design, developed by **Er. S. John Pimo (Assistant Professor, CSE)**, offers a non-invasive method to monitor blood sugar levels using saliva, combining advanced IoT and machine learning technologies. The design is registered for a term of 10 years starting from 21/05/2025, marking a significant achievement in healthcare technology and research.

53 faculty members successfully completed various NPTEL courses from January to April 2025, achieving Elite, Silver and Topper.

EDITORS

Mrs. J. Jencewin, AP/CSE | Dr. Y.R. Annie Bessant, AP/ECE | Mrs.P.Ajitha, AP/CSE | Dr. J. P. Vidhya, AP/HSc | Dr. Y. Balto, AP/MECH | Mr. L. Lucase, AP/HSc | Mrs.T.M.Angelin Monisha Sharean, AP/IT | Mrs.S. Shiny, AP/EEE | Mrs. M. Jasmin Annie Genefer, AP/MCA | Ms. C. M. Flora Dani, AP/CIVIL | Mrs. S. Joyse Rebecca, AP/MBA