



ST. XAVIER'S CATHOLIC COLLEGE OF ENGINEERING

Efficiency Towards Eminence

PROSPECTUS





About Us

St. Xavier's Catholic College of Engineering (SXCCE) was founded in the year 1998 by the Roman Catholic Diocese of Kottar, Nagercoil, Kanyakumari District. We uphold the tradition and heritage of maintaining high level of discipline, principles of social justice, equality of opportunity and genuine freedom and respect for religious and moral values. The courses offered in our institution are approved by AICTE, New Delhi and Government of Tamilnadu and affiliated to Anna University.

Vision

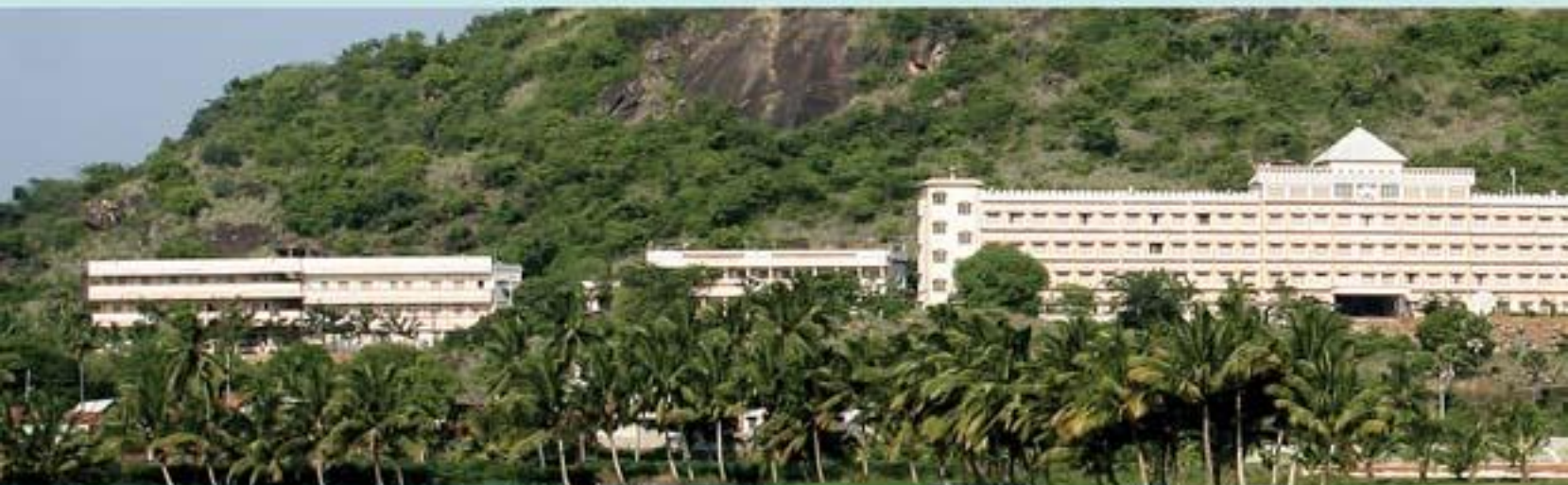
To make St. Xavier's Catholic College of Engineering a top-notch technical institution, imparting Total Quality Education and winning recognition for achievement of the highest level of intellectual excellence, abiding commitment to discovery through research and creativity and nourishing and fostering development of high caliber trained professionals in the frontier areas of Engineering and Technology.

Mission

To be passionately committed itself to the highest level of excellence in Technical education, to help all those who enter the portals of St. Xavier's Catholic College of Engineering gain academic wealth, passion for research, moral strength, an exemplary sense of social responsibility, spiritual and psychological well-being and mould them into confident, sensitive and informed global citizens.



Most. Rev. Dr. Peter Remigius
Chairman and Bishop of Kottar



Courses Offered

UG Courses

1. B.E. Civil Engineering
2. B.E. Computer Science Engineering
3. B.E. Electrical & Electronic Engineering
4. B.E. Electronics & Communication Engineering
5. B.E. Mechanical Engineering
6. B.Tech. Information Technology

PG Courses

1. M.E. Applied Electronics
2. M.E. Construction Engineering & Management
3. M.E. Control and Instrumentation
4. M.B.A. (Dual Specialization)
5. M.E. Computer Science Engineering
6. M.E. Energy Engineering
7. M.C.A.

Salient Features

Experienced and well-qualified faculty managed by committed priests and efficient academicians.

Placement & Training cell to look after the campus placements and to train the students in English communication and soft skills.

Separate and well-furnished hostel facilities for boys and girls within the campus and excellent transportation facility for day scholars.

8 Mbps internet facilities, well-equipped laboratories, workshops and computer centre with latest version of licensed software.

Special coaching for slow learners to bloom along with others.

Value-added training, seminars, workshops, conferences and industrial visits through various professional associations to enhance learning.

Fully computerized library housing quality books and subscribing to most of the leading journals from IEEE, Science Direct and Springer Link online.

Research activities in all engineering disciplines under the guidance of recognized supervisors holding PhD degree.





Rt. Rev. Msgr. Fr. V. Mariadasan is the Vicar general of Catholic Diocese, Kottar and presently the President of the Governing council of St. Xavier's Catholic College of Engineering. He along with 12 expert members from various walks of life, including six priests, meets once in a fortnight to deliberate on matters pertaining to the progress of the institution.



Rt. Rev. Msgr. Fr. V. Mariadasan



Correspondent Rev. Fr. A. Jesu Marian.

Fr. A. Jesu Marian, ordained a Priest in 1975 has been engaged in the pastoral ministry and educational field almost 50% each. He has some experience in the parishes as Parish Priest, Secretary of few commissions in the Diocese and Vicariate and in the administration of educational institutions as Superintendent of Diocesan Schools, First Vicariate Correspondent of Thiruthuvapuram, Correspondent of Morning Star Polytechnic College and Bursar of St. Xavier's Catholic College of Engineering.

Dr. S. Joseph Sekhar, a native of Kanyakumari District was born in 1964. He was graduated from GCT Coimbatore in Mechanical Engineering and received his M.E. and PhD from CEG, Anna University Chennai. He has 22 years of teaching, research and industrial experience in various institutions in India and abroad. He has also attended many conferences and published more than 10 research papers in reputed international journals. He is a member in professional bodies such as SAE, ISTE, ISHRAE, IET etc. and peer reviewer for many journals.



Principal Dr. S. Joseph Sekhar.



Bursar Rev. Fr. Dr. A.S. Michaelraj.

Rev. Fr. Dr. A.S. Michaelraj is a Catholic priest belonging to the Diocese of Kottar. He is the financial administrator of the college. He pursued his studies in Philosophy and Theology at the Sacred Heart College, Chennai. He holds a Licentiate degree in Theological Studies from the University of St. Thomas in Rome, Italy. He did his Master's degree in Counselling Psychology from Northeast Louisiana University, USA, and obtained PhD degree from the University of Florida, USA in Cultural Anthropology. He enjoys meeting with people, and renders services according to the needs of the individuals.



Civil Engineering Department



This department was started the very next year of the college inception in 1999 to cater to the growing needs of builders for our nation and to the world at large. The department has state of art facilities equipped with latest instruments, equipment, and software for imparting technical knowledge on par with international requirements. To develop responsible savvy professional techno-managers, the department also offers a PG program in Construction Engineering and Management.

Experienced and well-qualified faculty members, well-equipped laboratories and workshops are the strengths of this department. Advanced licensed software includes Primavera, MS-project, Staad Pro, etabs, ANSYS, and Labview are available to students to take up real time projects. REACH is the department association responsible for all co-curricular activities. The consultancy cell of this department is active in testing the quality of materials like concrete, brick, soil, water, bitumen, aggregates and steel reinforcement. The department also undertakes assignment with Govt. and private sector.





Computer Science and Engineering Department

This department is also one among the four departments established at the inception of the college in 1998. The department offers the best and updated practical training with modern high configuration computing systems to develop high quality, technical and scientific manpower to meet the challenges of the new generation. Dedicated faculty members and availability of licensed version of the latest software provides stimulating atmosphere for the students to excel in all aspects of academic research, and to enhance their general skills in logical and analytical understanding.



The association of computer engineers (ACE) takes care of arranging special lectures, seminars, and special workshops to provide hands-on training and exposure to emerging technologies. Special training on ORACLE, MCP, CCNA, etc is also given to students as per the industrial requirements.



Electrical and Electronics Engineering Department



This department was also established at the inception of the college in 1998. The department offers U.G. program in EEE and Post Graduate program in Control and Instrumentation. It has a strong team of devoted, well-qualified and dedicated faculty with highly commendable facilities for pursuing research. The well-equipped laboratories include Electrical Machines Lab, Power Electronics Lab, Control and Instrumentation Lab, and Power System Simulation Lab.

The department has initiated Govt. sponsored projects for research in various fields such as Artificial Intelligence Applications, Power Quality Issues, Wind Energy Technologies, etc. Society of Electrical Engineers (SEE) is the department association actively involved in organizing seminars, symposia, circuit debugging competition, etc. to equip students to take up the challenging assignments in the highly competitive global scenario.





Electronics and Communication Engineering Department

The department of Electronics and Communication Engineering was established from the inception of this college in 1998. The department offers Under Graduate program in ECE and Post Graduate program in Applied Electronics. The department has well-equipped laboratories with the latest and innovative software which includes Lab View for design applications, VLSI design software (VHDL, Verilog, PSPICE) for System Simulation facilities, Xilinx FPGA for VLSI design, Matlab, Matcad, and NS2 for networking applications.



ELECTROS is the student's association involved in updating the present trends in electronic and communication through seminars and conferences. The department undertakes technical consultancy and projects from various industries and research institutes, under the guidance of senior and young Professors holding PhD degrees from prestigious Universities. Research work is going on in biomedical instrumentation, bio sensors, VLSI design, grid computing, signal processing, image processing and computer networks.



Information Technology Department

This department was established in the year 2001 and provides cost-effective and value added information and communication technology to meet the expectations of the fast paced community. BRIGITZ is the department association, which has a good record of organizing seminars, workshops, symposia and conferences to keep in track with the most dynamic and progressive intellectual enterprise of our age.

The department provides one of the best infrastructure facilities for learning to the students under the guidance of experienced and qualified faculty members. The excellent lab facilities include digital signal processing, computer networks, socket programming, multimedia and web technology, mobile communication, object oriented programming, telecommunication, and database management systems. The department strives to become a pioneering world-class centre of excellence in education and research.





The department of Mechanical Engineering was started in the year 2003. The department has grown from strength to strength from its inception with well-qualified, experienced and dedicated faculty with PG degree in all inter-disciplines of Mechanical Engineering. The department provides stimulating environment for research activities under the supervision of Professors, holding PhD degree from the prestigious Indian Institute of Technology and Anna University. The ongoing research includes alternate refrigerants, renewable energy, nano composite materials, bio fuels, etc.

Mechanical Engineering Department

The department has established facilities to propagate emerging technologies by incorporating software such as Solidworks, ANSYS, PRO-E, Matlab, EDGE Cam, and Autocad. MEGX is conceptualized as the association of budding Mechanical Engineers of SXCC. Being the core branch, the department students find themselves inundated with job offers for exciting career in all engineering departments.





Humanities and Sciences Department

The department of Humanities and Sciences is multi-disciplinary in nature and provides long-lasting foundations of Basic Sciences, Mathematics and English. The department aims at technical and professional competency, and also aids in inculcating moral and ethical values. It has well-equipped physics and chemistry labs for the students to set the foundational footings strong and to build the engineering concepts further. The department faculties are dynamic in incorporating the application of theorems and fundamental laws of basic science and mathematics for engineering research and applications.

The language lab is well-equipped with the latest multimedia facilities and software for developing the communication skills of students from all backgrounds of the society.





Management Studies Department

The department of Management Studies is committed to preparing its students to face global challenges and prepare ethically strong and socially responsible management professionals. It has an excellent blend of faculty with industrial experience and academic experience. Facilities like state-of-the-art smart classrooms, interactive teaching methods, DVD player and LCD projectors and training in the software such as SPSS, SAP, etc. add value and provide impetus to the program.

Xavier's Management Student's Association (XMA) is a vibrant body in arranging guest lectures and industrial visit to internalize the theoretical concept for practical applications. Case Studies and Group Discussions form a part of the rich input in the academic stream.





Research Centre

The SXCCE research centre is committed to the upbringing of society through innovation and effective utilization of the available resources. Presently, there are more than ten PhD holders involved in research activities from various engineering disciplines. The researchers have published many papers in international journals and conference proceedings, and few patents also filed. To obtain research grants many proposals are in process with DST, Ministry of Earth Sciences, and AICTE of Govt. of India. Conferences, Seminars and workshops have been organized with the sponsorship / financial grant of DRDO, CSIR, and DST of Govt. of India. MOU's have been signed with Govt. and complementary interests and capacities.



Library



The library is fully computerized and incorporated in the office automation software of the college; thereby it is connected to all the terminals inside the campus. In adapting to the latest technologies so as to give quick access to the users, digital library is provided with multimedia facilities and printers. The E-journal facilities of the library provide unparalleled full-text access to more than 2000 publications from Science Direct, Springer Link, Institute of Electrical and Electronics Engineers (IEEE) and the Institution of Electrical Engineers (IEE). The library has well bound collection of more than 20,000 volumes of books.

Professional Associations

The various engineering associations / Chapters / Clubs of SXCCE provide opportunities for the students to interact with other professionals, and industry leaders of the world. IEEE Student Branch was started in the year 2002. It is engaged in conducting special lecturers, seminars, thereby giving exposure to the latest developments in the field of Electrical and Electronics Engineering. The Institution of Engineering and Technology – IET (UK) Student Chapter was initiated in the year 2007. They organize workshops and symposium to develop the technical skills for success with the co-sponsorship of Govt. of agencies.



The Indian Society for Technical Education (ISTE) Chapter is functioning to assist in the development of top quality professional engineers. Society of Automotive Engineers (SAE) India is a society of people in the automotive domain and the college has SAE Collegiate Club to engage mechanical students in generation and dissemination of knowledge in all spheres of automotive sciences.

Indian Society of Heating Refrigeration and Air Conditioning Engineers (ISHRAE) Chapter is functioning quite effectively in the institution. It is a premiere technical society meant exclusively for AC & R community.

The Energy Club of SXCCE has active participation in energy conservation and encourages renewable energy utilization. Recently the process of 'energy audit' was initiated in the college premises.



Sports and Games

To develop professionals of high caliber, they have to be trained physically, mentally, emotionally and intellectually. Realizing this need, SXCCE provides intensive sporting program and excellent sporting facilities. The students have brought laurels to our institution by participating in various sports and games especially among the professional institutions by winning several prizes at university, inter-university and state level competitions. The annual sports meet will be held regularly in our college sports ground.



Co-Curricular Activities

The students are provided with ample opportunities to nurture their creativity and develop wholesome personality. The students can decide on for membership in any one or more of the following clubs / services depending on their interest to hone their skills. They are NCC, NSS, Youth Red Cross (YRC) and Red Ribbon Club, Fine Arts Club, Tamil Mantram, Malayalam Literary Association. Moreover, the Women's cell, and Anti-Eve Teasing Cell will exclusively take care of the concerns and issues related to girl students and ladies staff members. The special cell called, Assistance for Students Excellence Table (ASET) provides counselling service to students when difficulties of emotional/academic/financial/psychological nature develop which interfere with their life. The alumni association interact with the institution and helps in arranging industrial visits, campus placements and guest lectures.



Training and Placement

Training and Placement Cell is an integral part of our institution. The cell is designated to function with a high degree of professionalism. It provides almost instantaneous data to the corporate sector in accordance with the perceived requirements. Regular counseling sessions are conducted to facilitate the students to make their decisions in choosing the right career path. Advice and support is given to the students in accomplishing their career goals.

Software Cell

It was established in 2003. It has an expert team of committed engineers and budding engineers of our college, who with their professional abilities and consistently outstanding level of services have handled various projects like Engineering college automation software, office automation software, bank automation software, etc.

Our students are well placed in

TCS, INFOSYS, Sathyam Computers, Wipro Technologies, CTS, Polaris, HCL Technologies, RAMCO Systems, Reliance Infocom, Jain Housing and Const. Ltd., Reed Relays and Elect. India Ltd., VI Microsystems Pvt. Ltd., U.S. Technologies, Tvm., Version Dat Services, Hexaware Technologies, L&T Infotech, EDS, Essar, Aryan Infoway, Tvm., Oracle Corporation, Ayoki fabricon, Energy Infratech, Shobha Developers, Robert Bosch, Caritor India.





Other Facilities

The college is proud to have the following well managed, well maintained and well equipped in-campus facilities for the convenience of students.



- Driving School
- First Aid Cell
- DTP Centre
- Store
- Computer Centre
- Canteen
- SBI Extension Counter
- Purified Drinking Water
- Separate Hostel for boys & girls
- Transport facilities for days scholars
- Common Prayer Hall



Admission Guidelines*

SL NO	Qualification	% of marks required			
		OC	BC	MBC/ DNC	SC /ST
1	HSC (Academic) Mathematics, Physics & Chemistry put together.	55	50	45	Pass
2	HSC (Vocational) Mathematics, Physics & Chemistry Vocational subjects theory & practical put together.	55	50	45	Pass
3	NRI	Pass	Pass	Pass	Pass
4	Diploma in Engineering / Technology (Lateral entry)	55	50	45	Pass

Eligibility Criteria

A pass in the HSC (Academic) or its equivalent with Mathematics, Physics / Chemistry or HSC (Vocational Stream) with Engineering / Technology vocational subjects or any other equivalent qualification for Engineering admissions approved by the Higher Secondary Board of Tamil Nadu / Anna University. For NRI quota, the NRI who supports the candidate financially must be a blood relation such as father, mother, brother or sister and the detailed procedure is available with the office.

Candidate seeking admission directly to the second year is required to have passed the Diploma Examination in Engineering / Technology conducted by the State Board of Technical Education, Tamil Nadu or equivalent courses.

The admission for M.E., M.B.A., and M.C.A. are made as per the norms of the University. Kindly contact office for further details.

Admission Procedure

Application for admission should be made in the prescribed form issued along with the prospectus. Selected candidates should submit their original certificates along with fee receipt of the stipulated amount paid at the SBI extension counter in the campus.

*procedures are subject to change as per the norms of the Tamil Nadu Government & Anna University.

Code of Conduct

Every student is required to strictly abide by the rules and regulation of the college.

The students should wear the prescribed uniform. Boys: Pants and shirt in the given colour with shirt tucked in and black shoes. Girls: Churidhar in the given colour and black cut-shoes.

Cell phones are strictly prohibited inside the campus. Students should communicate only in English within the college campus.



Locate us

The college is located in a serene and eco-friendly environment at the foot of Ponmalai hills in Chunkankadai, overlooking the Nagercoil - Thiruvandrum National Highway (NH47). It is about 26 km from Kanyakumari, the southern tip of India, 6 km from Nagercoil, the nearest railway station, 65 km from Thiruvananthapuram, the nearest airport, and 90 km from Anna University Tirunelveli.



St. Xavier's Catholic College of Engineering

Chunkankadai - 629 807, Kanyakumari District,
Tamilnadu, India. Tel: 04652 - 232560, 224033

Fax: 04652 - 259664, 233982

E-mail: engineering@xaviersengg.edu.in

www.xaviersengg.edu.in & www.sxcce.edu.in