Perspective Plan

Preamble

St. Xavier's Catholic College of Engineering has successfully completed 25 years of service in the field of technical engineering education and has established uniqueness in offering high quality professional education in the southern district of Tamil Nadu. The college was started in the year 1998 with the vision of service to rural society and successfully crossed the developing stage for the period of fourteen years (1998-2012) and majority of the goals envisioned in the first plan were achieved.

In the last decade i.e, during the second growth stage (2013-2022) the college work with the vision of empowering human society and had achieved several milestones and attained the new heights of NAAC and NBA accreditation that makes a differential change among other higher education institutions and also reached the autonomous status.

To further scale and to achieve new heights in this highly competitive dynamic global scenario and to meet the expectations of the stakeholders, the college intended to renew the strategic plan for the next ten years (2023-2033). Based on the detailed analysis and deliberations of present scenario with the internal and external experts a new strategic plan has been proposed on focusing Eminent, Efficiency and Excellence in Academic, Futuristic, Holistic development of students and Engaging with community developmental activities towards social transformation.

Focused Key Areas for the Next 10 years

- 1. Academic Excellence (Contemporary Curriculum, Impactful Pedagogy, Global Exposure)
- 2. Student Formation (Optimal Human Development)
- 3. Staff Development
- 4. Research and Innovation (Intensive Research, Extensive Collaborations)
- 5. Placement and Futuristic (Outstanding Placements)
- 6. Societal Responsibilities (Engaging Societal issues)
- 7. Infrastructure (World-class Infrastructure)
- 8. Finance Mobilization
- 9. Quality Assurance & Enhancement

DETAILED GOALS

- 1. Academic Excellence (Contemporary Curriculum, Impactful Pedagogy, Global Exposure)
 - (i) Design and development of a contemporary curriculum
 - (ii) Enhancing experiential learning in the teaching-learning paradigm
 - (iii) Effective methodologies to improve academic performance

2. Student Formation

- (i) Motivation for encompassing the whole
- (ii) Assess and identify the capabilities by student Profiling
- (iii) Streamline the system for holistic development
- (iv) Effective utilization of the campus (campus liveliness)

3. Staff Development

- (i) Promoting academic and technical skills of the staff members
- (ii) Promoting staff-student relationship
- (iii) Engage their services with the Local Community
- (iv)Work-life balance to retain well-qualified and experienced faculty

4. Research and Innovation (Intensive Research, Extensive Collaborations)

- (i) Promoting an intensive Research Culture
- (ii) Promoting Product Development & Innovation
- (iii) Project based learning (part of experiential learning)

5. Placement and Futuristic (Outstanding Placements)

- (i) Improve placements with a high package salary
- (ii) Increase the number of successful Entrepreneurs
- (iii) Promoting higher studies (IITs, Central Universities & Abroad)

6. Societal Responsibilities

- (i) Effective engagement with societal problems
- (ii) Promoting outreach and extension activities

7. Infrastructure

- (i) Improve the Infrastructure to enhance teaching learning and research activities
- (ii) Automation of administration and governance

8. Finance Mobilization

- (i) Incorporating financial aid by increasing enrollment
- (ii) Finding grants to raise funds

9. Quality Assurance & Enhancement

- (i) Quality Initiatives
- (ii) Accreditation and Ranking

<u>MATRIX</u>

Strategic	Goals/	Execution Methods
Area	Objectives	
	Design and	1.Design curricula & syllabus that act as an
	development	instrument of making a career.
	ofa	2.Involvement of professionals from industry and
	contemporary	academia in the formulation and execution of the
	curriculum	curriculum.
		3. Incorporation of interdisciplinary, multidisciplinary
		and trans-disciplinary courses that address both
		local and global social dimensions as well as
		industry demands. (Oceanology, Disaster
		Management, hydrology)
		4. Incorporating a greater number of theory-cum-
		practical courses that give industry-oriented
		nands-on experiences.
		5. Allocating sufficient time within the
		skills and comprehensive placement training
		6 Fostering self-learning by providing self-naced
		learning exercises and opportunities through
		digital educational methods and introducing credit
		transfer options, including collaborations with
		MOOC platforms like Swayam-NPTEL and
Acadomia		international universities.
Academic		7. Incorporating specialized minors and honors
DACEMENCE		degrees into the curriculum, such as
		Oceanology, Hydrology, Climate Change,
		Disaster Management, Agriculture, and more.
	Enhancing	1.Implementing Outcome-Based Education (OBE)
	experiential	methodologies in teaching, incorporating
	the teaching	reflective practices to encourage critical and
	lie teaching-	discerning cause and effect inductive
	naradigm	reasoning and deductive analysis
	paraaigin	2 Utilizing the Flipped Classroom approach through
		ICT-enabled digital instruction: Creating recorded
		video lectures and sharing them on the institute's
		YouTube channel or college website.
		3. Promoting the active use of laptops by students
		during classroom sessions.
		4. Conducting a variety of educational activities such
		as industrial and field visits, internships, seminars,
		workshops, assignments, research-based tasks ,
		and other participatory learning endeavors.
		5 Integrating job-oriented skills into academic
-		orintegrating Job orienteeu shins into academie
		exercises, assignments, and assessments to

		6.Organize instructional training sessions for
		master's students to enhance their teaching
		skills.
	Effective	1 Organizing motivational programs and providing
		1. Organizing motivational programs and providing
	methodologie	personalized attention to facilitate academic
	s to improve	excellence among students.
	academic	2. Employ diverse strategies to cater to various types
	performance	of students, (including identifying their learning
	-	styles, cultivating effective study habits, and
		promoting neer and group study activities for
		collaborative learning)
		2 Develop a comprohensive strategy for the
		5. Develop a comprehensive strategy for the
		implementation of digital assessment methods.
	Motivation for	1. Organizing life awareness programs to enhance
	encompassing	personal development and self-awareness.
	the whole	2. Arranging motivational initiatives tailored to the
		engineering profession.
		3. Assisting students in identifying their career
		asnirations and tailoring training accordingly
		whather for placements or achieving success in
		OATE errors
		GATE exams.
	Assess and	1. Develop structured plans for both professional and
	identify the	personal life trajectories.
	capabilities by	2. Assess students' Intelligence Quotient (IQ),
	student	Emotional Quotient (EQ), Social Quotient (SQ),
	Profiling	and their interests by conducting surveys and
	Profiling	and their interests by conducting surveys and consulting with faculty experts
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Perfore the second s	each
student's academic and skill	1-based
achievements and communicate	this
information to parents.	
Effective 1. Reorient the mentoring system by forming	mentee
utilization of groups based on shared research in	terests.
the campus facilitating ongoing project development.	,
(campus 2 Introduce a circular group approach for	student
liveliness) formation to encourage diverse collaborati	on and
interaction	on ana
3 Mainstream all the issues using a grassr	oots or
hottom-un annroach as the nrimary metho	od.
4 Enhance the execution of club ac	tivities
considering the establishment of debate	club
media clubs and radio stations to	spread
technical awareness to the wider commun	spicau
5 Extend the working hours of lobe and libr	nty.
5. Extend the working hours of labs and hors	aries to
maximize their usage.	
6. Promote group activities in all the academ	nic and
non-academic activities	·
7. Encourage interdepartmental collab	orative
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	training to staff members as needed.
	maintain instructional quality
	8 Establish a journal club and seminar club to
	facilitate effective knowledge sharing
	9 Sponsor faculty participation in Faculty
	Development Programs (FDPs) Short-Term
	Training Programs (STTPs) and Conferences
	10. Encourage faculty members to lead FDPs
	focused on placement and entrepreneurship
	processes and challenges.
	11. Integrate internships and campus
	experiences as integral components of all
	programs.
	12. Foster foreign expert talks in emerging
	domains for knowledge enrichment.
	13. Strive to achieve over 80% pass rates in all
	courses.
	14. Motivate faculty members to design diploma
	courses and offer online courses on MOOC
Dromoting	1 Engaging in team building eventions to factor
riumuing staff_studest	socialization including mutual introductions
scall-Scuutill relationshin	2 Promoting neer learning as an active learning
relationship	practice.
Engage their	1. Motivating staff members to participate in local
services with	government and parish initiatives. fostering
the Local	awareness of government policies and
Community	contributing towards the achievement of
-	National Development Goals.
	2.Offering technical solutions to address local
	societal needs.
	3. Actively conducting technical training sessions
	tor the general public.
	4. Arranging a comprehensive Stati Urientation
	Indian Economy Environmental Sustainability
	and Gender
Work-life	1 Implementing a refresher program that focuses on
balance to	mental and spiritual well-being.
retain well-	2. Introducing flexible work timings to accommodate
qualified and	various schedules.
experienced	3.Offering weekend holidays to enhance work-life
faculty	balance.
	4. Providing incentives for upgrading qualifications
	and engaging in research activities.
	5.Reducing administrative and academic
	responsibilities for research-focused faculty
	members.

		6. Enhancing social cohesion by organizing more
		get-togethers, staff tours, and family day
		celebrations.
		7.Establishing a salary regularization plan
		(increment) as part of the Career Advancement
		Scheme.
	Promoting an	1. Foster motivation through research-focused
	intensive	workshops and training programs, encouraging
	Research	scholarly exploration and writing.
	Culture	2. Provide access to plagiarism detection software
		for all individuals to verify their written work.
		3. Cultivate habits of in-depth learning ,
		continuous reading, effective information
		search, and logical thinking.
		4. Impart the virtues of persistence and resilience
		in problem-solving. Emphasize a proactive,
		challenge-based, or problem-centered approach.
		5. Conduct need analyses through local and field
		visits to understand the challenges faced by
		artisans, workers, etc., encouraging technological
		empowerment. Engage MBA students in public
		Surveys.
Descert		6. Regularly organize lechathons, Tech Expos
Research		(leaturing mini-models), science talks, and tech
and		gatherings. Host inter-college events to showcase
Innovation		interestions with superts
Descerch		7 Create a collaborative research retwork
Extensive		involving students from various institutions
Collaboratio		8 Form core research teams one tasked with
ns)		seeking and securing research funding while
110)		the other collaborates with local government
		entities.
		9. Explore the campus for energy management.
		green audit, and waste management
		innovations.
		10. Showcase projects as monuments around
		the campus to highlight achievements.
		11. Provide opportunities for research
		apprenticeships with professors.
		12. Promote interdisciplinary research
		collaboration within departments.
		13. Initiate collaborative research endeavors with
		external organizations and industries to enhance
		collaborative thinking.
		14. Increase research publications in SCI and
		Scopus indexed journals, offering incentives for
		quality research output.
		15. Encourage applications for funded projects and

		establish research labs for approved projects
		16. Foster research collaboration and MoUs with
		government sectors. local and foreign
		universities.
		17. Establish a Maker Space and research clubs
		for experimental work, including drone and solar
		demonstrations.
		18. Facilitate the establishment of research labs
		and excellence centers for each research group.
	Promoting	1. Host a startup festival and initiate an ideathon to
	Product	create an idea pool, awarding credible research
	Development &	concepts.
	Innovation	2. Launch a research journal with aspirations of achieving SCI indexing.
		3. Provide guidance in developing startup companies
		4. Establish an Intellectual Property Rights (IPR)
		Facilitation Centre to facilitate patent publications.
		5.Set up a consultancy centre to enable faculty
		members to cater to technical consultancy needs of
		other institutions, local government and the
		public.
		6.Create a Research Park and Incubation Centre to
		support innovation and entrepreneurship.
		7. Empower Research Clubs to address problems
		faced by Kanyakumari district (vulnerabilities in
		Agriculture and Disaster Management) and
		provide technological solutions.
		8. Encourage each department to operate a
		company or product firm aligned with their
		expertise, iostering student internsnips and
		9 Establish a Centre of Excellence focusing on
		various fields like Resource Recovery Process
		Energy Neutrality Climate Change Socio-economic
		Learning, Sustainable Development, Hydrology
		Land Use Planning, Coastal Research. Waste
		Management, Environmental Accounting, Implicit
		Disaster Management, Women Entrepreneurship,
		and Technological Empowerment in Agriculture
		(Soil Biology, Microorganisms Survival).
	Project based	1.Foster ongoing research projects by integrating
	learning (part of	junior and senior students in collaborative projects.
	experiential	2. Organize regular visits to specialized
	learning)	laboratories at renowned institutions and
		research organizations.
Placement	Improve	1. Develop a structured syllabus for comprehensive
ana	placements	Deliver all encompaging training that
ruturistic		diverse aspects
() 11totomodice		

Placements) students to follow industry experts and
complete relevant online certifications.
4.Implement ongoing assessments of studen
progress, providing annual feedback on their jol
readiness through digital automation.
5. Conduct industry-specific training and moc
visions.
6. Increase the number of on-campus placemen
arives.
and industrial visits.
8. Facilitate core company placements and explore
foreign placement opportunities through alumn connections.
9.Enhance placement opportunities in governance
and management sectors.
Increase the 1. Cultivate a culture of creativity, innovation, and
number of entrepreneurship by initiating start-up festival
successful and ideathons to create an idea reservoir.
Entrepreneurs 2. Encourage entrepreneurship, business
development, and product innovation among both
students and faculty members.
3. Showcase industrial companies and thei
products on campus, particularly through
events (alumni lechnology expos) and make
A Train students to realize the notential of
+. Itali students to realize the potential o
becoming successful entrepreneurs including the
establishment of start-up companies and get the
problems of industry (MSME)
5. Raise awareness about part-time job opportunitie
and implement training programs, with a focus or
social entrepreneurship addressing wast
management, natural resources, and public health
engineering.
Promoting 1. Offer comprehensive career guidance and coaching
higher studies for competitive exams such as GATE, GRE, TOEFL
(IITs, Central CAT, IES, UPSC, etc., to support successfu
Universities & examination outcomes.
Abroad) 2.Cultivate a pool of skilled research professional
through targeted training and development
programs. 2 Mativata and provide training apportunities for
learning foreign languages like French Cormon
etc to enhance linguistic skills
4. Emphasize pursuing higher studies at globall

		renowned institutions, fostering a commitment to excellence in education.
Societal Responsibi lities	Effective engagement with societal problems	 Foster collaborations, partnership and establish Memorandums of Understanding (MoUs) with NGOs, charitable organizations, and social entrepreneurs to facilitate innovative initiatives that drive social entrepreneurship. Deliver training programs for part-time job opportunities, particularly in the realm of social entrepreneurship (women entrepreneurship) Address natural resource management and waste reduction through the principles of Reduce, Recycle, and Reuse. Promote social mobility to empower disadvantaged segments of society. Strive to become an exemplary institution dedicated to the upliftment of the local community. Organize club activities beyond teaching hours, such as nature trekking and bird watching clubs. Undertake problem adoption and solution provision, focusing on local issues like Traffic Management, Western Ghats Management, Agriculture, Tourism, and Healthcare in the Kanyakumari region. Foster a faculty culture that upholds values like equal dignity for all, social justice, religious and caste neutrality, and inter-religious collaboration. Address the needs of various geographical land forms – Mountainous (kurinchi), Forests (mullai), Cropland (marutham), and Seashore (neithal) – by providing relevant solutions and engagement strategies.
	Promoting	1. Enhance and empower the NSS, NCC, and YRC
	outreacn and extension	contributions to both society and the nation
	activities	2.Reinforce outreach activities, engaging with local
		societal issues and conducting knowledge-sharing
		and awareness programs aimed at conserving
		natural resources.
		efforts to aid affected communities.
		4.Twinning tribal, coastal villages, and primary
		Tamil medium schools for mutual benefit and

		 learning. 5.Organize marathons or other events to raise awareness about social issues like global warming and the adverse impacts of media. 6.Exhibiting proactive approach towards social movements
Infrastruct ure	Infrastructure to enhance teaching learning & research	 Establish a Wi-Fi enabled campus with robust network infrastructure to facilitate laptop usage. Set up interactive smart classrooms equipped with recording capabilities for each department. Expand and enhance digital library facilities with a focus on instructional repositories. Upgrade existing laboratory facilities and new research labs to align with the latest technological advancements. Create a maker space on campus to support prototype fabrication and experimentation. Implement comprehensive E-Governance across all
	Automation of administration and governance	 Implement comprehensive E-Governance across all activities, including attendance automation. Coordinate industry-sponsored sports events and extend sports-related activities to schools and the public. Enhance sports facilities, including provisions for cycling and swimming. Foster open communication channels between the institution's administration and society, demonstrating a commitment to technical empowerment. Display numerous quotations and photographs of academic luminaries throughout the campus. Exhibit academic achievement posters prominently within the campus premises. Arrange frequent discussions with artists from different domains.
Finance Mobilizatio n	Incorporating financial aid by increasing enrollment	 Introduce diploma and certification courses to diversify educational offerings. Expand student enrollment by scaling up existing courses. Initiate distance education programs to reach a wider audience and provide flexible learning options.
	Finding grants to raise funds	 Pursue funded projects to advance research and innovation. Engage in consultancy work to offer expertise and solutions to external entities. Provide handholding support to enterprises, guiding and assisting them in their growth and development.
Quality	Accreditation	1.IQAC operates diligently, overseeing the

Assurance &	& Rankings	college's academic standards, focusing on pedagogy and assessment methods.
Enhancem		2.Annual setting of realistic and ambitious
ent		benchmarks, monitored by IQAC to ensure
		timely execution of perspective plans.
		3.Attain NAAC A++ grade under the Autonomous category.
		4. Achieve Tier 1 status from NBA accreditation.
		5. Aspire to secure a prominent position in the NIRF rankings.
		6. Pursue global accreditation from bodies like ABET or IET.
		7. Strive to reach a status on par with renowned IITs.
		8. Aim to be recognized as an exceptional institution
		development.