



# 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

## REACH

# NEWSLETTER



## CIVIL ENGINEERING

The Department of Civil Engineering was established in 1999. It proudly offers a dynamic undergraduate program (B.E.) in Civil Engineering and advanced postgraduate programs (M.E.) in Structural Engineering and Construction Engineering & Management. The department also houses a recognized research centre that fosters innovation and scholarly excellence. Accredited by the NBA and NAAC, and permanently affiliated with Anna University, the department upholds the highest academic standards while promoting innovation and excellence in Civil Engineering education.



2022-2023 ODD SEM



**Dr. I. Jessy Mol**  
**HOD, Civil Engineering**

## **HISTORY OF DEPARTMENT**

The Civil Engineering department of St. Xavier's Catholic College of Engineering was started in 1999, the very next year of the college inception to cater to the growing needs of builders for our nation and to the world at large. The department has the 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 M.E. Structural Engineering with an intake of 18 students since 2013 and M.E. Construction Engineering and Management with an intake of 18 students since 2007. The Department is recognized by Anna University for Ph.D. level research since 2017. The Department of Civil Engineering is NBA accredited under tier-II category for the validity period from 2021-2022 to 2023-2024. In order to exhibit the talents of the Department Students, Resplendent Engineers Association for Civil Heritage (REACH) is actively organizing special lectures, power seminars, workshops, symposiums and conferences. Experienced and well-qualified faculty members, well-equipped laboratories and workshops are the strengths of this department. Advanced licensed software includes AutoCAD, Primavera, MS-project, StaadPro, ANSYS, and REVIT are available to students to take up real time projects. 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 government and private sector.







**Ms. L. Porcia. AP**  
**Faculty In-charge**



## **HISTORY OF REACH ASSOCIATION**

The REACH Association, established on February 16, 2002, has been actively organizing national and international conferences, symposiums, seminars, and workshops to motivate students in developing technical expertise in modern and sustainable eco-friendly construction. The association aims to create an environment that nurtures new engineering skills, familiarizes students with the latest trends in the construction industry, and fosters leadership qualities, social responsibility, and sustainable development practices. It also encourages innovative ideas, the use of advanced technical tools, and the development of products for societal betterment, while conducting paper presentations, competitions, and cultural activities to enhance the overall skills and competencies of students.

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## VISION

To be a department of eminence in producing Civil Engineers that serve people with technical expertise, groundbreaking innovations and productive entrepreneurial initiatives with high ethical standards and commitment in green and sustainable development.

## MISSION

M1. To provide quality teaching in order to transform students into Civil Engineers with academic excellence and technical expertise with outstanding faculty and excellent infrastructure.

M2. To develop leadership qualities and managerial skills of the students to become productive entrepreneurs.

M3. To create awareness on recent technologies through innovative research and industry – institute collaboration.

M4. To inculcate human values within the students and inspire them to create a sustainable ecofriendly society.







## STAFF EDITORS

Ms. L. Porcia, AP/Civil

Ms. R. Sumithra Jaya AP/Civil

## STUDENT EDITORS

- ***Alisha V Dinah - IV BE Civil Engineering***
- ***Heleena. V.J- III BE Civil Engineering***
- ***Ashlin N S - I ME Construction Engineering Management***
- ***Jebin G - I ME Structural Engineering***

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## Office Bearers

Ms. L. Porcia. , P (Faculty Advisor)

Mr. Ron samuel (Student secretary) , IV year Civil

Ms. S.V. Jashini Christino Castro (Joint secretary) , IV year Civil

Ms. Heleena. V.J (Treasurer) , IIIrd year Civil

## Association Office Bearers List

Ms. Abika.R.S (IV year Civil)

Mr. Ferrin Antony (IV year Civil)

Mr. Udhayan.A(IV year Civil)

Ms. V.J. Heleena (III year Civil)

Mr. J.A. Daniesh Frady(III year Civil)

Mr. G. Jeremy Rojer (III year Civil)

Mr. Mohamed Rizwan M (III year Civil)

Mr. M Nishad Nazar (II year Civil)

Mr. Bibin Binu (II year Civil)

Ms. Shiba Sihabu (II year Civil)



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# Events conducted by REACH Association (2022-2023)

## **Engineer's Day Seminar on Civil Engineering Profession–Opportunities & Challenges**

On 16th September 2022, REACH Professional organized an Engineers Day Seminar on "Career Options" for Civil Engineering students, delivered by Er. A. Lawrence Walter, Proprietor of Walter Engineering Constructions, Tirunelveli, with 125 participants including 14 faculty and 111 students.



## **Orientation Program on "Building Information Modelling"**

An orientation program was organized on 28th October 2022 for the students of the Civil Engineering Department. A total of 29 undergraduate students from the final year actively participated in this program, gaining valuable insights and guidance to enhance their academic and professional journey.



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# Events conducted by REACH Association (2022–2023)

## Career Build Up and Objectives

On 29th October 2022, REACH Association conducted an Orientation on Career Build-up and Objectives by S.M. Anu, Founder of Sketch Architect Design and Construction, Marthandam, with 34 participants including 4 faculty and 30 students.



## Seminar on Career Opportunities In Civil Engineering

- On 4th November 2022, the Civil Engineering Department organized a program on "Career Opportunities in Civil Engineering," attended by 62 students to gain insights into career paths and industry trends.



# Events conducted by REACH Association (2022–2023)

## Seminar on Recent Developments in Soil Mechanics

On 24th September 2022, REACH Association organized a seminar on "Recent Developments in Soil Mechanics," led by Dr. S. Sherlin Prem Nishold, Design Manager – Civil, Coastal Marine Construction and Engineering Limited. The session provided valuable insights into the latest advancements in soil mechanics and foundation engineering, enhancing students' understanding of real-world applications. A total of 49 participants, including 4 faculty members and 45 students, actively took part in the program.



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# INDUSTRIAL VISITS (2022–2023)

## INDUSTRIAL VISIT TO KUDANKULAM POWER PLANT



On 26th October 2022, REACH Association organized an insightful industrial visit to the Kudankulam Power Plant. The program aimed to enhance students' understanding of advanced construction practices and modern technologies used in large-scale infrastructure projects. A total of 30 participants attended, including 3 faculty members and 27 students.



# INDUSTRIAL VISITS (2022–2023)

## INDUSTRIAL VISIT TO COCHIN



On 20th October 2022, the Civil Engineering Department organized an industrial visit for III-year students to the Sobha Limited construction site and the Boat Jetty in Cochin, where 3 faculty members and 37 students gained insights into the latest construction practices and technologies.

# EDUCATIONAL VISIT (2022–2023)

## EDUCATIONAL TRAVEL TO EVERY PART OF INDIA



From January 5 to 15, 2023, a 10-day educational tour across various parts of India was organized for final-year Civil Engineering students to enhance their practical knowledge and exposure to diverse engineering practices. The tour provided valuable learning experiences through visits to notable construction sites, infrastructure projects, and cultural landmarks. A total of 37 participants, including 3 faculty members and 34 students, actively took part in the program.

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# INDUSTRIAL VISITS (2022–2023)

## Course Related Visit



On 6th October 2022, the Department of Civil Engineering organized a course-related visit for II and III-year Civil Engineering students, accompanied by 4 faculty members. The visit included the filter house at Nagercoil and the Mukkadal Dam, providing students with practical exposure to the water treatment process and water intake structures as part of their curriculum.



# GRADUATION DAY (2021th Batch)



Graduation Day for the Civil Engineering students was celebrated on 22nd October, marking the successful completion of their academic journey and honoring their achievements in the field of engineering.

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# FACEAT & P

The inauguration ceremony of FACEAT&P was held on 16th September 2022 at the Rock Auditorium. The program commenced with a prayer song rendered by the students, followed by a welcome address delivered by Dr. I. Jessy Mol, Head of the Department. Engineers from FACEAT&P and the Civil Engineering Association, along with the faculty, staff, and students of the Department of Civil Engineering, participated in the inaugural ceremony.



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# TECHNICAL QUIZ

On 24th September 2022, REACH Association organized a technical quiz aimed at enriching and sharing both technical and general knowledge among participants. The event encouraged healthy competition, critical thinking, and teamwork, while also enhancing students' problem-solving skills. A total of 53 participants, including 5 faculty members and 48 students, actively took part in the program, making it an engaging and informative experience.



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# INTRA-DEPARTMENT SYMPOSIUM

On 17th September 2022, REACH Association organized an intra-department symposium to enrich students' knowledge on the latest construction practices and technologies, with 84 participants, including 14 faculty members and 70 students.



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# STUDENTS ACHIEVEMENT (2022-2023)

SL. NO	NAME OF THE STUDENT	YEAR	PLATFORM	NAME OF THE COURSE
1	Ron Samuel	II	Coursera	Mechanics of Materials I : Fundamentals of Stress & Strain and Axial Loading
2	Abisha S	III	Spoken Tutorial, IIT Bombay	QGIS
3	Adlin Sneha D L	III	Spoken Tutorial, IIT Bombay	QGIS
4	Akshaya A T	III	Spoken Tutorial, IIT Bombay	QGIS
5	Alin Joe J A	III	Spoken Tutorial, IIT Bombay	QGIS
6	Anancio J C	III	Spoken Tutorial, IIT Bombay	QGIS
7	Cinu Selva S	III	Spoken Tutorial, IIT Bombay	QGIS
8	Soorach Antony Abilash G	III	Spoken Tutorial, IIT Bombay	QGIS
9	Jairesh Ahalan J	III	Spoken Tutorial, IIT Bombay	QGIS
10	Jasnoe Daniel E	III	Spoken Tutorial, IIT Bombay	QGIS
11	Kavya U A	III	Spoken Tutorial, IIT Bombay	QGIS
12	Jelena Blessie J	III	Coursera	Introduction to Household Water Treatment and Safe Storage
13	Sahaya Saajan	III	Coursera	Introduction to Household Water Treatment and Safe Storage
14	Shalom E	III	Spoken Tutorial, IIT Bombay	QGIS

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# LIST OF STUDENTS WON IN VARIOUS EVENTS

NAME OF THE STUDENT	TITLE OF THE PAPER/PROJECT	ORGANIZER	PRIZE
Jashni Christina Castro S V	Paper Presentation	Ponjesly College of Engineering	First Prize
Abina V	Brick and wall	Ponjesly College of Engineering	Third Prize
Heleena V J	Brick and wall	Ponjesly College of Engineering	Third Prize
Jashni Christina Castro S V	Breaking the codes	Ponjesly College of Engineering	Third Prize
Heleena V J	Spell bee	Ponjesly College of Engineering	Third Prize
Jashni Christina Castro S V	Paper Presentation	Mar Ephream College of Engineering	First Prize
Divin Siju K	Bridge battle event	Anna University, Chennai (CIVILISATION'23)	Third Prize
Jeremy Rojer J	Bridge battle event	Anna University, Chennai (CIVILISATION'23)	Third Prize
Daniesh Frady J A	Bridge battle event	Anna University, Chennai (CIVILISATION'23)	Third Prize

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# LIST OF STUDENTS WON IN VARIOUS EVENTS

Jashni Christina Castro S V	Paper Presentation	CSI Institute of Technology, Thovalai	Third Prize
Heleena V J	Brick & Wall	CSI Institute of Technology, Thovalai	Third Prize
Abina V	Brick & Wall	CSI Institute of Technology, Thovalai	Third Prize
Rojin Raj S	Brick & Wall	CSI Institute of Technology, Thovalai	first Prize
Daniesh Frady J A	Brick & Wall	CSI Institute of Technology, Thovalai	first Prize
Heleena V J	Technical Quiz	Rajas Institute of Technology, Ozhuginasery	Third Prize
Abina V	Technical Quiz	Rajas Institute of Technology, Ozhuginasery	Second Prize
Jashni Christina Castro S V	Paper Presentation and Technical Quiz	Rajas Institute of Technology, Ozhuginasery	first prize
Rajlin Gisnu R	Bridge battle event	Anna University, Chennai (CIVILISATION'23)	Third Prize

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# FACULTY ONLINE COURSE COMPLETED

STAFF NAME	COURSE	PORTAL	CREATED BY	CERTIFICATE LEVEL
Dr. Jerlin Regin J.	Essentials of Entrepreneurship: Thinking & Action	Coursera	NITTR, Chennai	Pass
I. Jessy Mol	Student Psychology	Swayam/NPTEL	NITTR, Chennai	Gold Medal
S. Shiela Balanta	Student Psychology	Swayam/NPTEL	NITTR, Chennai	Gold Medal
M. Galesh	Essentials of Entrepreneurship Thinking Action	Coursera	University of California, Irvine Extension	Participation
Dr. S. Frank Stephen	Essentials of Entrepreneurship: Thinking & Action	Coursera	Essentials of Entrepreneurship: Thinking & Action	Participation
L Porcia	Student Psychology	Swayam/NPTEL	NITTTTR, Chennai	Gold Medal
D. Smiline Shiny	Student Psychology	Swayam/NPTEL	NITTR, Chennai	Gold Medal
Flora Dani C M	Student Psychology	Swayam/NPTEL	NITTR, Chennai	Elite
Flora Dani C M	MOOC COURSE	Coursera	Essentials of Entrepreneurship: Thinking & Action	Pass
Sumithra Jaya R	Student Psychology	Swayam/NPTEL	NITTR, Chennai	Gold Medal

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# FACULTY AWARDS/RECOGNITION REPORT

SL.NO	STAFF NAME	TYPE	DETAILS	SPONSOR
1	Dr. JERLIN REGIN J.	Recognition	Reviewer	Techno press - Advances in concrete construction
2	Dr. JERLIN REGIN J.	Award	Clarivate Analytics Author Award	SXCCE
3	Dr. JERLIN REGIN J.	Recognition	Answer sheet correction	TNJFU
4	Dr. JERLIN REGIN J.	Recognition	Resource Person	Gopalan college of Engineering and Management
5	Dr. JERLIN REGIN J.	Recognition	QP setting	Vel Tech High Tech
6	Dr. JERLIN REGIN J.	Recognition	Session chair - National Level Technical Symposium	Stella Mary's college of Engineering
7	Dr. I. JESSY MOL	Recognition	Session Chair	Arunachala College of Engineering for Women
8	Dr. I. JESSY MOL	Recognition	Guest Lecture	IEI
9	Dr. P. ANTONY VIMAL	Recognition	Guest lecture	Morning star polytechnic

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# STAFF ACHIEVEMENTS

## JOURNAL PUBLICATION DETAILS :

1. Maheshwaran J , Jerlin Regin J and Ilanthalir A ‘Influence of Chemical and Thermal Treatment Methods on the Mechanical and Micro - Structural Characteristics of Coconut Shell based Concrete’ Global Nest Journal ,ISSN 1790-7632, Vol 25, pp 1-9
2. Jeyaprakash Maheswaran, Maheswaran Chellapandian, Nakarajan Arunachalam and Manikandan Naga ‘Thermal and durability characteristics of optimized green concrete developed using slag powder and pond ash’ Materials Research Express, ISSN 2053- 1591 , 10-9.
3. Udhayasuriyan Brindha, Jeyaprakash Maheswaran, Maheswaran Chellapandian and Nakarajan Arunachalam ‘Quantitative Assessment of Strengthening Strategies and Design Recommendations for the Repair of Corrosion-Damaged Reinforced Concrete Members’ Buildings , ISSN 2075-5309, Vol 13, Issue 4, pp 1080.
- 4.J. Maheswaran M. Chellapandian N. Arunachalam ‘Thermal and mechanical properties of a sustainable bio-flax fiber based light-weight aggregate concrete’ Magazine of Concrete Research,ISSN-0024-9831,<https://doi.org/10.1680/jmacr.23.00080>.
- 5.P. Antony Vimal ,Sree Lekshmi Suresh , M. Vinu , ‘Effects of fundamental natural time periods on the seismic performance of base isolated multistorey buildings’ Asian Journal of Civil Engineering , <https://doi.org/10.1007/s42107-023-00604-6>.

# CONSULTANCY WORKS

SL.NO.	PROJECT TITLE	FUNDING AGENCY	AMOUNT (RS.)
1	Material Testing (Aggregate, steel, bitumen)	Government	16,004
		Private	8,500
2	Soil testing	Government	1,500
		Private	8,500
3	Specimen testing (Cube, Paver block, Brick, Tile)	Government	19,648
		Private	11,100
4	Completion Certificate	Government	44,704
5	Design	Private	7,000
6	Wet mix	Government	42,704
Total			RS. 1,59,660