

St. Xavier's Catholic College of Engineering, Nagercoil

ANNUAL REPORT-2019-'20

31-01-2020

President of this memorable celebration Most Rev. Bishop of R.C. Diocese of Kuzhithurai,

Distinguished Chief Guest Most Rev. Bishop of Kottar Diocese,

Rev. Father Vicar General of R.C. Diocese of Kuzhithurai,

Governing Council Members,

Rev. Correspondent Father,

Rev. Bursar Father,

Adv. Stanly Casmic Sundar, the Governing Council Member

Mr. Charles Ritz, President, PTA

Guests

Deans, Heads of the Departments, members of the faculty, non-teaching staff, Alumni, My dear students...

Good Morning and Warm greetings to all !

It gives me an immense pleasure to present the 22nd Annual Report of St. Xavier's Catholic College of Engineering which contains a brief summary of our achievements and activities.

Achievements of the College:

- Our College was started in the year 1998, with three Under Graduate courses with an intake of 120 students. Now we are standing tall and strong with 2250 students and 281 staff members with 6 permanently affiliated Under Graduate courses and 12 Post Graduate courses which include permanently affiliated MBA and MCA programmes.
- It is proud to acknowledge that our College is accredited by NAAC with 'A' grade and the Departments EEE, ECE and MECH are NBA accredited and this year we have applied NBA accreditation for the other UG programmes IT, CSE and Civil.
- Our college is recognised by UGC under 2(f) and 12(B) acts.
- We are processing towards making the College Autonomous.

- We have Anna University approved Research Centres of CSE, Civil, Mechanical, EEE, ECE, MCA and Physics departments.
- Seven of our students have been awarded with University Ranks and 508 students are receiving their degrees belonging to 2019 batch.
- Anna University and Infosys together organized a campus pool placement drive in our campus on 19th and 20th December 2019. 1214 students of 63 colleges from the southern region of Tamil Nadu participated.
- Student chapters of Professional Societies, Federation of All Civil Engineers Association of Tamil Nadu & Puducherry and Trivandrum Management Association have been newly inaugurated this year for the betterment of students.
- The College was awarded “ICT Academy Centre of Excellence for Design” in recognition of completion of all programme requirements in the field of design. The award was distributed by the Chairman of AICTE during a function held at AICTE, New Delhi.
- I am very happy to inform that, a project submitted by Dr. Seldev Christopher, Professor/CSE to DST on “Audio Electronics System for Matured Coconut Identification” was sanctioned financial fund of Rs. 18 lakhs.
- JEFILA SAFIN FIDEV of Final ECE was awarded the best NSS volunteer by the Anna University, Chennai.
- EDC of our College was provided with financial assistance for conducting two Entrepreneurship Awareness Camps, sponsored by DST, Government of India and supported by EDI, Ahmadabad.
- Our college has MoUs with TCS, SIFY and NSEIT for conducting online entrance and recruitment exams like NEET, JEEE, NET, GATE, Bank exams, LIC etc. for the benefit of the public.
- Our College also conducts TRB, TNPSC and other exams for the Government of Tamilnadu.
- The internet facility of our College has been upgraded from 74 Mbps to 160 Mbps. Our whole campus has been facilitated with Firewall protected Wi-Fi.

- With a measure to amplify the research ambience of our institution, the Library has been fully computerized. The book volume of our library collection has been increased to 28,000 under 9,453 titles. Being a member of National Digital Library, college Library has extended the facility of referring e-books, e-journals, etc., for the staff and students. A sophisticated Audio-Visual room has been deployed in our library, to enrich the interactive learning ability of the students.
- Four MOUs were successfully signed between our college and service organisations. Six MoUs were also signed between by our college and professional bodies and industries. Furthermore two MoUs were signed between our college and institutions like NIT, Trichy and Kalasalingam University.
- Faculty members who were awarded with Doctoral degree in this year are: Dr. G. Sahaya Stalin Jose AP/IT, Dr. S. Absa AP/ECE, Dr. Y.R. Annie Bessant AP/ECE, Dr. I.Jessy Mol AP/Civil, Dr.Y.Mary Reeja AP/ECE, Dr. Jain B. Marshel AP/EEE, Dr. X. Ascar Davix AP/ECE and Dr. M.R.Arun AP/ECE.

Placement achievements:

Name of the company	Date of Drive	No of Students selected
CENTIZEN	26.07.2018	2
H&R BLOCK	16.07.2019	3
HCL TECHNOLOGIES	30.08.2019	24
SURYA INFORMATICS	20.09.2019	7
Sri Mookambika Info Solutions(SMI)	19.09.2019	7
TCS	20.07.2019	4
ATOS SYNTEL	13.10.2019	11
Infosys	19 & 20.12.2019	12
Mafiree	06.12.2019	4
CSS Corp	21.12.2019	4
Ethnus	21.01.2020	8
Just Dial	24.01.2020	10
Soft Square	10.01.2020	9

Important events conducted:

- **WinMech**

Centre for University Industry Collaboration of Anna University, Chennai and Renault Nissan conducted a career opportunity programme for 11th and 12th Std girl students on 19-10-2019 at our campus. 1014 girl students were benefited out of it.

- **Entrepreneurship and CA awareness programme**

Entrepreneurship and CA awareness programme was conducted at our campus on 14-9-2019. 2002 students of different colleges participated in the programme. State Minister for Industries Thiru. M.C.Sampath, Tamil Nadu Representative in New Delhi Mr. Thalavai Sundaram, District collector Sri. Prasanth M. Vadanare IAS, and other District officials of DIC, TIIC etc. provided motivational speeches.

- **I Year UG inauguration**

Inauguration of the 22nd batch of St.Xavier's Catholic College of Engineering was held on 07-08-2019. Mr.Arul Jerald Prakash, Director, Kerala Science and Technology Musuem was the chief guest. Our Vicar General presided over the programme.

- **I Year MBA inauguration:**

MBA 13th batch inauguration was held on 30th August 2019.

- **24hr hackathon IEEE Xtreme:**

Students of IEEE participated in a 24 hr Global level Coding Competition Programme at our institution from 19-10-2019 to 20-10-2019.

Technical Associations Inauguration during 2019-2020:

Department	Association	Installation Date	Chief Guest
Mechanical	MEGX	5 th July 2019	Er. M. Rose Cyril Xavier, DGM, BSNL
ECE	ELECTROS	3 rd July 2019	Mrs. Dosslin Yesudhas, HRBP Manager
CSE	ACE	2 nd July 2019	V.Abey George, Capestart

Department	Association	Installation Date	Chief Guest
EEE	SEE	4 th July 2019	Er. Sathis Anto, Senior Manager, Startup project Ltd.
IT	BRIGITZ	5 th July 2019	Mr.Praveen Jayaram, Industrialist
Civil	REACH	24 th August 2019	Mr.Bazeer Ahamed, Mr.George Joseph. Zone chairman.
H&Sc	SHAX	31 st August 2019	Dr.Nagarajan, Scientist, ISRO
MBA	XMA	12 th October 2019	Col.R.G.Nair
MCA	XACA	10 th August 2019	J.Mary Ajitha TCS, Chennai

Students chapters of Professional Societies:

Name of the chapter	Inauguration date	Chief Guest
IEEE	10/08/2019	Er. Maria Melbin, Tech Lead-Soft square solutions Chennai
Ensav Club	27/07/2019	Er.G.S.Vignesh, Trainee/CPRI, Bangalore
IET	13/07/2019	Er. J. Anu Monica, Anchor, All India Radio, Nagercoil
ISHRAE	17/10/2019	Mr.Sowri Rajan, Industrialist
FACEAT	24/08/2019	Mr.Bazeer Ahamed, Mr.George Joseph. Zone chairman.

Service type cells of our college have conducted nearly 53 programmes. Professional cells have conducted 101 programmes. Non professional cells have conducted 83 programmes. The programmes include Enrichment, Value added,

Entrepreneurship, Life Skills, Empowerment, Awareness, Gender equality, Environment, Human Rights, Moral and Ethical Values, Qualitative initiations, Extension and Outreach. Totally 93 programmes have been conducted by the Department Technical Associations.

Energy audit:

Our College EnSav Club along with IET conducted an energy audit at Manalikarai village and Manjakkonam. On Energy Conservation Day an Energy Conservation Awareness rally was conducted at Chunkankadai area on 14-12-2019.

Activities in association with ICT Academy:

- ICT academy conducted 'Youth Talk '19' on 20-9-2019 for enhancing the Communication skills of students from Southern Districts of Tamil Nadu at our college. More than 200 students from various Arts and Science and Engineering colleges participated.
- Value added training on Oracle, PHP, Auto CAD, Fusion360, Revit Architecture were also conducted.
- Faculty Development Programme on PHP was conducted by ICT Academy.
- Skill development programme on Technology & Soft Skills in association with CSS Corp was conducted for the final year students of IT and CSE Departments from 20-08-2019 to 07-09-2019.
- CETA along with ICT academy organised "National Communication Skills Challenge 2019" a STEP PLUS Diagnostic Test on 21st January 2019. The test aimed at assessing the English Communication skills of students. 100 students of our college were benefited.

Voluntary Club activities:

Women Cell

- The inauguration of the Women cell for the year 2019-20 was conducted on 27.09.2019. Dr. S.Raja Kumari, Assistant Professor, Malankara Catholic College, Mariagiri was the Chief Guest. The staff and student members of the women cell attended a rally on **Brutality against Women** from Manali to Thuckalay, organized by Women Federation, Kuzhithurai Diocese on 25.11.2019.

NCC

- The enrolment of NCC of our college for this academic year was done on 20-08-2019. 33 cadets of our NCC unit are appearing for 'B' certificate and 21 cadets are appearing for 'C' certificate examinations. 31 cadets along with Associate NCC Officer attended a 10 day "Combined Annual Training Camp" at NTA, Madurai. 5 cadets are attending an Army Attachment Camp at Secundrabad from 20.01.2020 to 03.02.2020. NCC cadets went on a trekking to Maruthuvalmalai on 5th October 2019.

NSS

- The NSS Unit of our college celebrated International Yoga Day on 21-06-2019. A special camp with a theme "Healthy Youth for Healthy India" was organised from 13-01-2020 to 19-01-2020 by our NSS Unit at Manjakonam. Totally 95 students attended the camp.

Fine Arts

- The Fine Arts of our college provides students an environment for the education, creation, performance and celebration of arts. The inauguration for this academic year was on 25-09-2019. The club students won first prize in photography, second prize in Group discussion and Group song competitions conducted by **ROTARY CLUB** of Nagercoil in the month of August 2019. Students won first prize in drawing, English poetry writing, group song, competitions conducted by **KUMARI KALAI KAZHAGAM** in the month of October 2019.

Tamil Mandram

- The Tamil literary association of our college has been playing a key role in promoting and enhancing the Tamil language skills of our students. The inauguration of this academic year was conducted on 18th of September 2019. Poet. Lashmi Manivannan was the chief guest. Tamil Mantram has organized several competitions for the students during the eve of Gandhi Jayanthi and Pongal celebration; more than 200 students participated and facilitated the event. Various competitions like Elocution, Essay writing and Poetry was conducted for National voter's day on 23rd January of 2020.

Jyothis

- JYOTHIS the Malayalam Literary Association functions well for the Malayalam students to explore their talents and skills in their mother tongue and to celebrate their traditional festival. This year the Inauguration and attappoo competition in view of Onam was celebrated on 07/09/2019. Nearly 56 participants of 7 batches participated in the competition. Onam traditional games were also conducted together with Onappattu and Thiruvathirakkali to make the function more colorful

Placement training programmes:

Utmost importance is given to improve student's skill to meet the industrial expectations, through regular and special training programs through the Placement Cell.

Placement Training -Summary					
Program	No. of programs	No. of Days	No. of Batches	Total No. of Hours	No of students attended
Quantitative Aptitude and Logical Reasoning	2	5.5	3	56	343
Soft Skills	6	13	9	109	418
Company Specific	5	17	8	180	403
Orientation & Motivation	3	5	13	120	821
Technical Training	5	20	5	120	315
Corporate Interactive sessions	6	5	6	30	524
Internal Quanz Training	3	30.5	10	183	529
Internal Comm.Skills Training	2	25.5	10	157.5	512
Total	32	121.5	64	955.5	3865

Research Activities:

• Doctoral Degree Holders

Our Institution has 155 faculty members out of which 64 Doctoral Degree Holders among them 33 are recognized Supervisors in various Faculties of Anna University Chennai and 52 faculty members are currently doing Ph.D. in Anna University recognized research centres.

• h-index, citations & i10-index

Our institution research publications' h-index is 28 with 2775 citations and 72 i10-index values. Our faculty members have published 46 papers in SCI indexed journals, 08 in Scopus indexed journals and 43 in other indexed journals during this calendar year. 126 publications are made in conference proceedings in this calendar year.

• Project Proposals to Funding Agencies

Project proposals worth Rs. 50 Lakhs were sent to AICTE as RPS and Modrobs. Project proposals worth Rs. 52 Lakhs were sent to DST. A proposal for establishing ATAL community centre in our College was submitted with NITI AYOJ Govt. of India seeking financial assistance for 2.5 Crore.

INTERNAL QUALITY ASSURANCE CELL (IQAC):

IQAC of our college effectively coordinates NAAC and NBA accreditation activities, enhancement of course file, quality standard in internal exam questions and many more academic related activities. Two faculty development initiative programs on "Outcome Based Education" were well organized by IQAC. Two review meetings were conducted in the month of September and December with external stakeholders and internal stakeholders to review the targets faced.

Faculty achievements:

Our Institution has eminent and well-qualified faculty members and staff, persistently showing keen interest in developing their skills. Generous opportunities are being provided to the faculty members and staff to update and upgrade their qualification and proficiency.

- The Principal was honoured with Life Time Achievement Award for his outstanding services in Academics in the domain of Civil Engineering. The award was presented by Kanyakumari

District Civil Engineers Association during Engineers day celebration.

- Dr. A. Darwin Jose Raju, HOD EEE is selected as a member of the 2019 **SIGHT Steering Committee** and the **Operations Committee Chair**.
- Dr. S. Edwin Gladson, the Associate NCC Officer of our College is promoted from the rank of Captain to Major.
- Mr. Thomas Mathiyas, the Physical Director of our college has received “The Best Co ordinator Award” from the Vice Chancellor for co ordinating the Anna University Sports and Games.
- Mr. R. Bright Reginold Raja, AP, MBA has been selected as a member of IET Communities Committee South Asia.

S.No	Staff Name	Type	Details	Sponsor	Int./National
1	Dr. R. S. SHAJI	Award	Achiever	Innovative Research Developers and Publishers (IRD)	State
2	Dr. M. MARSALINE BENO	Recognition	Honorary Secretary	IET Kanyakumari LN	National
3	Dr. R.P ANTO KUMAR	Award	ICT academy Centre of Excellence for Design Powere	ICT Academy	National
4	SUJA A. ALEX	Recognition	Active Mentor - Programmin g in Java	IIT, Madras	National
5	Dr. M. MARSALINE BENO	Recognition	Reviewer	IEEE Access	International
6	Dr. M. MARSALINE BENO	Recognition	Reviewer	IET Journal of Engineering	International
7	Dr. M. MARSALINE BENO	Recognition	Vice Chairman	IGEN- Institution of Green Engineers	International

S.No	Staff Name	Type	Details	Sponsor	Int./National
8	Dr. A. DARWIN JOSE RAJU	Recognition	Guide	IEEE YESIST12 2019	International
9	Dr. A.SUBITHA	Recognition	Reviewer	Elsevier-Journal of NCA - Smart Contracts for Bloc	International
10	Dr. A. MILTON	Recognition	Reviewer	IEEE Access	International
11	Dr. A. MILTON	Recognition	Reviewer	International Journal of Speech Technology	International
12	Dr. ANNROSE J.	Recognition	Reviewer- Estimation of protein from the images of	Journal of food science and Technology	International
13	Dr. R. JEMILA ROSE	Recognition	Reviewer	Adhoc and sensor wireless networks	International
14	Dr. R. JEMILA ROSE	Recognition	Reviewer	Kalasalingam Academy of education	International
15	Dr. R. JEMILA ROSE	Recognition	Reviewer	International Journal of Imaging Systems and Techn	International
16	Dr. R. S. SHAJI	Fellowship	Membership -Life Long	Teaching and Education Research Association (TERA)	International
17	Dr. R. S. SHAJI	Fellowship	Quarterly Franklin Membership	London Press	International
18	Dr. R. S. SHAJI	Recognition	NAAC Resource Person	Bethlehem College of Engineering	University

Swayam-NPTEL Course:

178 staff members have successfully completed online courses in Swayam-NPTEL during the academic year 2019-2020. Among which 14 are the toppers, 15 are Gold medalists, 37

are silver medalists and 62 are elite. Our college is twice recognised as “Active Local Chapter”. Dr. J. Annrose has received the “Active SPOC for the Swayam-NPTEL” award from NPTEL. Two staff members act as mentors for two online courses.

Students’ achievements:

- Ms.Sajithra.S of ECE received **Upsilon pi Epsilon AWARD** with a cash prize of \$1000 by IEEE Computer Society.
- R.Abishek of 2018 batch presented his project on **IoT DRIVEN DEFENCE VEHICLE SYSTEM** at Stamford International University, Bangkok, Thailand.
- Pranav, Sambu Krishna, Stalin Vijay and Vivek of Final Mechanical Engineering submitted a project on “Efficient Hydrogen Production by using Algal Biomass by utilising polluted Water and Air” at KPIRT Sparkle which was selected after five scrutinies as one of the 30 projects among 3177 projects. They will be presenting the project in the finals to be held at Pune in February 2020.
- Christabel Rose, Eldon Venisha, Lythia, Benila Grace of Civil Engineering won prizes in Poster Presentation, Technical Quiz and Treasure Hunt held at Rohini College of Engineering and Loyola Institute of Technology and Science.

S.No	Association	Date	Name	Awards	Level
1	MEGX	25/09/2019	PRANAV V N	First prize in the Paper Presentation contest	State
2	MEGX	25/09/2019	SHAMBU S KRISHNA	First prize in the Paper Presentation contest	State
3	BRIGITZ	20/09/2019	SANJANA SATHEESH S	debugging-second prize - Stella Mary's	State
4	BRIGITZ	20/09/2019	AKHIL JINU T P	web design-first prize - Stella Mary's	State
5	BRIGITZ	20/09/2019	ANISH GNANAMONI R	Web design - third prize - Stella Mary's	State

S.No	Association	Date	Name	Awards	Level
6	BRIGITZ	16/08/2019	ASWIN R C	pencil drawing - Loyola -first	State
7	BRIGITZ	27/05/2019	AJAY R	Website hacking /penetration Test	State
8	BRIGITZ	03/03/2019	AJAY R	Network hacking	State
9	BRIGITZ	27/02/2019	AJAY R	Social Engineering	State
10	BRIGITZ	09/08/2019	JIBIN RAJ S	photography - second prize - Bethlaheam	District
11	BRIGITZ	06/03/2019	NESHMA P	Fashion Show (First)	District

Consultancy and testing:

The Department of Civil Engineering is actively involved in consulting and testing materials like Soil, Water and Concrete. They also provide Stability Certificates, Road Completion Certificates for private and government sectors. During this academic year the Consultancy and testing cell has generated an income of Rs.1.7 lakhs.

Out Reach:

- Outreach cell of our college conducted a one day workshop on “Impact of information Technology on Science” for school children of Christ CMI Central School, Anjugramam on 25th November 2019. Training on Basic Science, C coding, Wind energy, Artificial Intelligence, Robotics and Website design in IT were also given.
- To create an everlasting happiness, a program called “Joy of giving” was conducted to Dr.Ambethkar Nager villagers on 15th December 2019. Importance of Sharing was the highlight of the programme.
- Children’s day was celebrated with the students of Government Primary school, Chunkankadai, on November 14th, 2019.

- Staff members of our college gave motivational talks on “How to excel in studies” to Higher Secondary students of St.Marys Mulagummodu Matric Higher Secondary School on 11th January 2020 and Kumari Marticulation Higher Secondary School on 30th January 2020.
- Pongal celebration was conducted at Dr.Ambethkar Nager on 15th January 2019 by Tamil mantram of SXCCE.

Independence Day and Republic Day:

On August 15th 2019 and 26th January 2020, Independence Day and Republic Day were celebrated in our college along with NSS, NCC and YRC units. March past and Flag hoisting was well organised by the NCC cadets of our college. Patriotic Cultural programmes were performed by our students.

Alumni Association:

Winter Alumni Meet was organised on 26th December 2019. About 60 alumni attended in the meet. Executive meetings were conducted on 28.09.2019, 26.1.2019 and 25.01.2020

Parent Teachers’ Interaction meeting:

Parent Teachers Interaction meetings for this academic year was conducted on 9-11-2019 for the higher semesters and on 28-9-2019 for the first year students. Around 450 parents attended the meeting. During the meetings academic activities and the various activities of the college to improve the performance of the students were discussed.

Driving School

We have 2 trained driving inspectors who have obtained training from Training Institute, Namakkal to train our students. 2 staff members have received their license this year. Out of 32 students, 16 students got the license as of now and 16 students are about to get the license.

Institutional Scholarship

Institutional Scholarship for poor students is given to the poor meritorious students of the R.C Diocese of Kuzhithurai and Kottar. This year 68 students have been benefitted under this scheme and Rs.41,03,500/-is sanctioned by the Management. SXCCE merit Scholarship is given to the meritorious students who have been selected in the ST. Xavier’s Merit scholarship exam. This year 55 students have been benefitted under this

scheme and Rs.36,27,000/- is sanctioned by the management. Students Health Benefit Scheme is established to help the students who suffered loss by accident or death of parents. This year Rs.1,00,000/- is disbursed under this scheme.

Sports Achievement:

Our college Physical Director, Mr.Thomas Mathiyas has been chosen as one of the members of the Anna University selection committee member for Football, Kabbadi and Women Badminton team.

- Our student C.Ahin Vinith of Final CSE won Gold medal in Fencing competition conducted by the Tiruppur District Fencing Association held in the month of September and also he has won Silver medal in Tamil Nadu State Fencing Association.
- Our College Women Badminton team has won the Gold medal in the Anna University, 19th Zone Badminton Tournament in the month of October and also our college Men Badminton team has won the silver Medal in the Anna University, 19th zone Badminton Tournament held at our college.
- Our college Cricket team has won the Silver Medal in the Anna university, 19th zone Cricket Tournament held at our college .
- Our student V. Jashni Christina Castro of 1st civil has won the silver Medal in Shot put and Discuss throw in Anna university 19th zone Athletic meet held at Cape Institute of Technology and R.Abisha of II M.B.A won the Silver Medal in Shot put and M. Ashwin Ramnath of II MBA won the silver medal in High Jump.
- Our college Men Hand Ball team won the fourth place in the Anna University 19th zone held at Bethlehem College of Engineering.
- Our Student Anand .S of 1st CSE has won the silver medal in Anna University Inter Zone Power Lifting competition held at Adhiyaman College of Engineering Hosur.

Conclusion:

We are grateful to God Almighty for His guidance and grace. It is my profound duty to express my deep sense of gratitude for the blessings of our beloved Chairman, consultative care of the Vicar General, the able guidance of our Correspondent, the love and care of our Bursar, and the commendable proposals of the members of the governing council.

I would like to extend my depth of gratitude to Deans, Heads of Departments, Professors, Members of Faculty and Staff for their continued support, dedication and commitment.

“The goal of education is not to increase the amount of knowledge but to create the possibilities for a student to invent, to create men who are capable of doing new things”.

We have a great mission ahead and it is to help our students learn the right thing and enable them to manifest what they have learnt. This manifestation of perfection is possible if our minds and hearts are united in marching towards the goal. Let us continue our march and achieve the goal.

Thank You.




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