



FRANCIS XAVIERTM
ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION

Accredited BY NBA | AICTE Sponsored Margdarshan Mentor Institution

DST-FIST Supported Institution | ISO 9001:2015 Certified

Recognized under Section 2(f) & 12(B) of the UGC Act, 1950



DEPARTMENT OF MECHANICAL ENGINEERING

MONTHLY NEWS – April 2024

ABOUT DEPARTMENT OF MECHANICAL ENGINEERING

The department offers UG program in B.E Mechanical engineering from the year 2005. The department started a PG program M.E Industrial Safety Engineering from this academic year 2018- 2019. This course has wide range of job opportunity in the Industrial and Academic sector of India as well as abroad. The Department aims at providing the students with a perfect blend of intellectual and practical experiences with the support state-of-the-art laboratories and well-defined academic structure. The UG program is accredited by National Board of Accreditation (NBA). The special feature of the Department has established three applied laboratories, in addition to the regular labs to support students to master skills to make each one industry-ready, with a solid grounding in the principles and practice of Mechanical Engineering. We also have a strong academy for training students to appear for GATE exam.

VISION OF THE DEPARTMENT

To produce competent Mechanical Engineers of excellent technical and managerial skills with profound morality for global, national and confront societal development.

MISSION OF THE DEPARTMENT

1. To provide quality education in Mechanical Engineering with an interdisciplinary approach, encouraging innovation, research, and Entrepreneurship through world-class infrastructure and proficient teachers.
2. To make the department self-reliant through multiple programs with excellent curricula, best practices, and industry exposure.
3. To inculcate technical, professional, and leadership skills, moral ethics, and lifelong learning.

Programme Educational Outcomes

The Bachelor of Mechanical Engineering curriculum is designed to impart Knowledge, Skill, and Attitude to the graduates to

PEO 1: Have a successful professional career in Mechanical Engineering and allied industries, either by employment or through entrepreneurship.

PEO 2: Establish competency in Design, Thermal, Materials, and Manufacturing system with ethics and social responsibility.

PEO 3: Have a continual receptiveness for leadership and social challenges.

Message from the Head of the Department

**Dear Colleagues,
Greetings!**

I have great pleasure and pride in announcing that the Department of Mechanical Engineering is publishing the newsletter for the month of April 2024. We are steadfast in our progress as it involved various activities that enabled the hidden talents of the department students and faculty members to be brought to light. Besides the lockdown, our faculty members are continuously attending various training programs, publishing research papers, and book chapters, and are also working on getting patents.

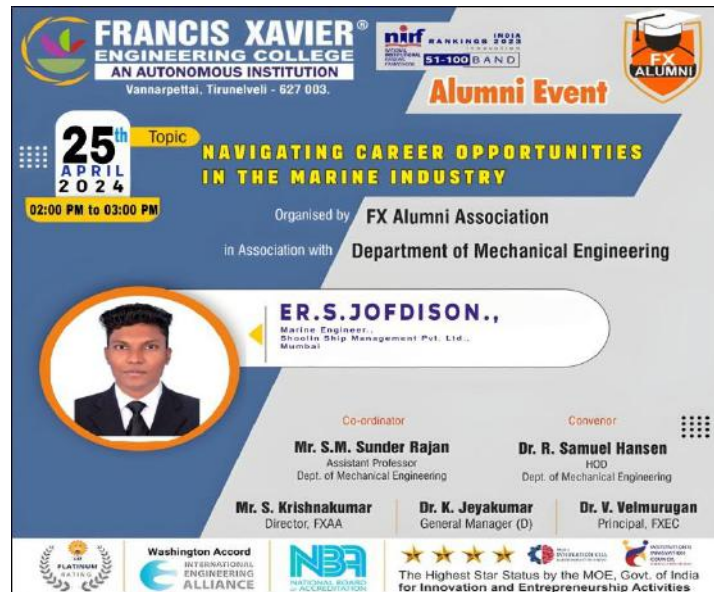
This newsletter is the reflection of department activities that showcase all the events held in the department, the contributions of faculty members, and students, and the best practices adopted. I would like to congratulate all the members of the editorial board for their sincere effort to realize this venture.

Dr. R. Samuel Hansen, M.E., Ph.D.
Professor & Head
samuel_hansen@rediffmail.com



ALUMNI INTERACTION

Navigating Career Opportunities in the Marine Industry



FX Alumni Association organized a guest lecture in association with department of Mechanical Engineering for the Second year Mechanical students. **Er.S.Jofdison., Marine Engineer., Shoolin Ship Management Pvt. Ltd., Mumbai** delivered the guest lecture on “**Navigating Career Opportunities in the Marine Industry**”. A heartfelt greeting to the resource person is extended by Dr. R. Samuel Hansen, HOD-MECH. The expert resource thanked the management for offering him this opportunity. The Guest Lecture provides a comprehensive overview of the employment landscape within the Marine industry sector. It aims to assist individuals, job seekers, and students in understanding the diverse career paths available, key skills required, and emerging trends in the industry. It provided attendees with

Edited & Designed by Dr. K. Vinukumar, AP/Mech, FXEC SOCIAL MEDIA /FXEC Mechanical

valuable insights into the diverse and evolving landscape of employment within Maine's industry sector. The lecture delved into various aspects, including an overview of the industry's significance to the state's economy, the multitude of career paths available, and the essential skills sought after by employers.

Mastering Creo: Navigating the Digital Design Landscape



FX Alumni Association organized a guest lecture in association with department of Mechanical Engineering for the Third year Mechanical students. **Er.T.S.Divith.,Design Engineer., Shibaura Machine.,Chennai.,** delivered the guest lecture on “**Mastering Creo: Navigating the Digital Design Landscape**”. A heartfelt greeting to the resource person is extended by Dr. R. Samuel Hansen, HOD-MECH. The expert resource thanked the management for offering him this opportunity.

The guest lecture on "Mastering Creo" provided valuable insights into the world of digital design, specifically focusing on the use of Creo software. Creo, developed by PTC, is a powerful computer-aided design (CAD) software widely used in various industries for product design and development. The lecture began with an overview of Creo and it offers a comprehensive suite of tools for 3D modeling, simulation, and analysis, making it a versatile solution for engineers and designers.

ACHIEVEMENT

Our 2017 passed Alumini Mr. Rutherson from Mechanical Engineering Department has cleared **IAS** in the seventh time. Congratulations to Mr. Rutherson from the Mechanical Engineering Department on clearing the IAS exam on his seventh attempt! It's truly inspiring to see his determination and persistence pay off. Achieving such a prestigious milestone after multiple attempts is a testament to his resilience and dedication. This will no doubt motivate other students in your institution to keep pushing forward, no matter the challenges they face.





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 Vannarpettai, Tirunelveli - 627003

Hearty Congratulations
 to
GOKULSINGH P
 Batch 2013-17
 Department of
Mechanical Engineering
 on securing
RANK 40
 in Tamil Nadu Public Service Commission
TNPSC - GROUP - I SERVICES
 & getting selected for the position of
Deputy Collector

FXEC
 The Toppers' Choice
 Be with the Best

We are proud to announce that our esteemed alumnus, Mr. P GOKULSINGH, from the Mechanical Engineering Department, has been provisionally and conditionally selected for appointment by direct recruitment to the post of Deputy Collector in Tamil Nadu Civil Service, as part of the Combined Civil Services Examination-1.

SYMPOSIUM



The 19th National Level Technical Symposium MEGNAZ 2024 was conducted on 04.04.2024. The chief guest for the event was Mr. Rusan Sivaraj M, Senior Lead Engineer Technologies. The Head of the Department Dr. Samuel Hansen gave the welcome address. The program was felicitated by the principal Dr. V. Velmurugan. The chief guest gave an inspiring speech on 'Growth in pursuing a career in Core Field', and then various events had been conducted and the prize winners were honored during the valedictory function. The gathering came to an end by a thank note by Mr. Essaki Selvam, the secretary of the association.



NPTL COURSES

NPTEL COURSE COMPLETION:

We are excited to announce that Dr. J. Sangilimuthukumar has successfully completed the NPTEL course on "Nature and Properties of Material Cause" with an Elite distinction. Conducted by, this course provided in-depth insights into the foundational nature and characteristics of materials, emphasizing their role in various engineering applications. This achievement highlights the dedication and commitment to academic excellence in the field of material science. Congratulations on this outstanding accomplishment!



Elite


NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to
SANGILIMUTHUKUMAR J
for successfully completing the course
Nature and Properties of Materials
with a consolidated score of **71** %


Online Assignments	23.29/25	Proctored Exam	48/75
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Total number of candidates certified in this course: **160**




Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur


Jan-Mar 2024
(8 week course)



Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur




Indian Institute of Technology Kanpur




FREE ONLINE EDUCATION
swayam
एनपीटीएल शिक्षा, उच्च शिक्षा

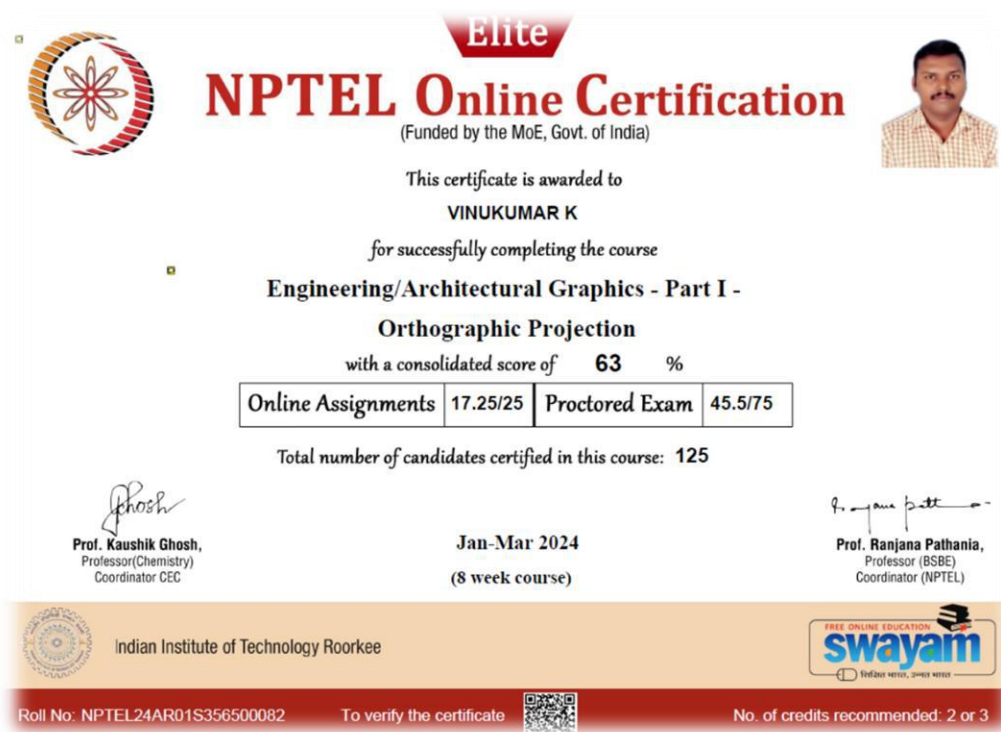
Roll No: NPTEL24ME52S556500268

To verify the certificate



No. of credits recommended: 2 or 3

Edited & Designed by Dr. K. Vinukumar, AP/Mech, FXEC SOCIAL MEDIA  /FXEC Mechanical



We are excited to announce that Dr. K. VinuKumar has successfully completed the NPTEL course on "Engineering/Architectural Graphics - Part I -" with an Elite distinction. Conducted by, this course provided in-depth insights into the foundational nature and characteristics of materials, emphasizing their role in various engineering applications. This achievement highlights the dedication and commitment to academic excellence in the field of material science. Congratulations on this outstanding accomplishment.

JOURNAL PUBLICATION

We are pleased to announce the recent publication of a research journal titled "Material Research Express" by Dr. J. Sangilimuthukumar. This work delves into innovative experimental approaches in material science, offering valuable insights into material behavior and properties. The publication highlights Dr. Kumar's ongoing contributions to advancing knowledge in the field and sets the stage for future research developments. Congratulations to Dr. Sangilimuthukumar on this significant achievement!

APPLIED LAB



In the Innovation and Product Development Applied Lab our mechanical student have developed a skeleton robot designed to demonstrate advanced engineering principles. The robot's framework, inspired by the structure of a human skeleton, provides both strength and flexibility.

Innovation and Product Development Applied Lab

GOPALAKRISHNAN N (II Mechanical) has won first prize in Treasure Hunt event at Anna University, Regional campus, Tirunelveli on 17.04.2024.



II Year Mechanical student GOPALAKRISHNAN N, have received participation certificates on Paper Presentation” at Anna University, Regional campus, Tirunelveli on 17.04.2024.



Thareen Ameer Shaji M & Anotony Snowin S of First year mechanical students have won Ist prize Project Expo competition at St.Mother Teresa Engineering College dated 23.04.2024.



III-Year Mechanical - BASEERUDEEN S, KEVIN GLADSON A, S.M.Sethuram Kumar & K.R.UNAIS have received participation certificates on Introduction Machine learning, Computer basic essentials, ChatGpt & Introduction to AI from Great learning Academy 04.04.2024.



CERTIFICATE OF COMPLETION

Presented to

K.R Unais

For successfully completing a free online course
Digital Transformation

Provided by

Great Learning Academy

(On April 2024)

To verify this certificate visit verify.mygreatlearning.com/UIISLLJDC

KEVIN GLADSON A & D.MUGESH (I Mechanical) have received Participation certificates Cyber Ethics, Cyber Stalking –Quiz from, MEIT-Govt. of India on 02.04.2024



Thareen Ameer Shaji M & Anotony Snowin S of First year mechanical students have received participation certificates from free fire competition at St.Mother Tresa Engineering College dated 23.04.2024.

