



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

[f /fxengg](#) [t /fxengg](#) [i /fx_ec](#) [in /fxengg](#)
[y /francisxavierengineeringcollege](#)

DEPARTMENT OF MECHANICAL ENGINEERING

MONTHLY NEWS – MAY 2022

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 curriculum, best practices, and industry exposure.
3. To inculcate technical, professional, leadership skills, moral ethics, and lifelong learning.

Programme Educational Outcomes

Bachelor of Mechanical Engineering curriculum is designed to impart Knowledge, Skill, and Attitude on 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 to announce that the Department of Mechanical Engineering is publishing the newsletter for the month of May 2022. Amidst the Covid Pandemic situation, we strived hard to keep the students engaged, and utilize the time not only for quality education and also for self-development. 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 into light. Besides the lockdown, our faculty members are continuously attending various training programs, publishing research papers, book chapters and are also working on getting patents.

This newsletter is the reflection of department activities which showcases all the events held in the department, contribution of faculty members, 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

EDITORIAL BOARD

Dr. R. Samuel Hansen, Professor & Head of Department, Editor – in – Chief.

Dr. S. Balakrishnan, Assistant Professor, Mechanical Department, Faculty In charge.

INTERNATIONAL LABOR DAY

The Mechanical Engineering Association will host interdepartmental competitions for International Labor Day on May 5, 2022, from 3 to 4 p.m. in the Mechanical Department seminar hall. Poster making and Poetry making are two competitions. This competition involved a total of ten students. The competitions' themes are Tribute to All Workers and Selfless Sacrifice Worker. The event was organised by Dr. S. Balakrishnan, AP/Mech, and Mr. R. Rahesh, AP/Mech.

FRANCIS XAVIER ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Vannarpettai, Tirunelveli - 627 003.

MECHANICAL ENGINEERING ASSOCIATION
Organizes

INTERDEPARTMENTAL COMPETITIONS
INTERNATIONAL LABOR DAY

Competitions : **POSTER MAKING and POETRY WRITING**
Register your participation on or before **4th May 2022**

Open to all Department & Years of FXEC

05th May 2022
Thursday
3.00 PM to 4.00 PM

Registration link : <https://forms.gle/4uDqmKxbYq6mN4BW8>

VENUE
Department of Mechanical Engineering
(Seminar Hall)

SCAN ME for registration

Co-ordinators
Dr. S. Balakrishnan
AP / MECH
Mr. R. Rahesh
AP / MECH
Dr. V. Velmurugan
Principal

Convenors
HoD & Staff Members



SYMPOSIUM - WYVERN Z 2K22

The department of mechanical engineering conducted the 17

th National Level Technical Symposium (WYVERNZ -22) on 25.05.2022. There were 6 technical events and 6 non- technical events. Students from various colleges participated in these events. Dr. Samuel Hansen, Professor and Head, presided over the event, which was coordinated by Dr. RKA. Bhalaji, AP/Mech. Mr. Dhanasekar, B.E. (Alumnus 2014), Transmission Model Development Engineer, Mercedes-Benz Research & Development, India, was the chief guest. Dr. V. Velmurugan, Principal, FFXEC and Mr. S. Krishnakumar, General Manager - Administration, SCAD Group, both participated in this event and spoke to the students about the event's importance and utility. Dr. Samuel Hansen, Professor and Head, presented the shields and certificates to the event winners. All participants received participation certificates.



APPLIED LAB – D & A LAB

On 26.5.2022, students from the Mechanical Engineering Department's "Design and Analysis" Applied Lab attended a National Level Symposium at Anna University in Tirunelveli. This applied lab is coordinated by Dr. M. Kannan, Professor of Mechanical Engineering. Here some of the students' achievements are as follows:

Mr. R.kodeeswaran, Mr. M.Karthick, and Mr. M.Essaki from III year Mech A sec won first prize, and T.Abraham Jebaamani Raj (III

Mech A), Selva Kumar (I Mech B), and Dani Jebaz Lazaraus (I Mech A) won second prize in **Idea presentation**.



III year Mech A sec - M.Aldo Mathias has won first prize in **CAD modeling**.



III year Mech A sec - M.Aldo Mathias and Mr. D.Giftson Raj has won first prize in Design challenge competition.



APPLIED LAB – IPD

The Department of Mechanical Engineering “Innovation and Product Development” Applied Lab Students III year Mech A sec - Mr. Gokul, Won the First prize in paper presentation and Second prize in Technical Quiz. Mr. Kathiresan, won the second prize in paper presentation in the National Level technical Symposium at SCAD College of Engineering in Tirunelveli on 28.05.2022. Mr. S. Sheik Sulaiman, Associate Professor/ Mechanical is Coordinator of this applied lab.



STUDENT ACHIEVEMENT

The Department of Mechanical Engineering students have actively participated in various competitions, with the following accomplishments:

1. Y. Mohammed Ibrahim & A. Yokesch Sundar Kumar (III B) - won first prize in Paper presentation.
2. A. Aaron, S. Antony Sujith, & S. Gopinath (III A) - won first prize in Project contest.
3. S. Antony Sujith & S. Gopinath (III A) - won second prize in Quiz.

In the above students participated in National level Technical symposium held at Anna University, Tuticorin Regional centre on 28th, May 2022.

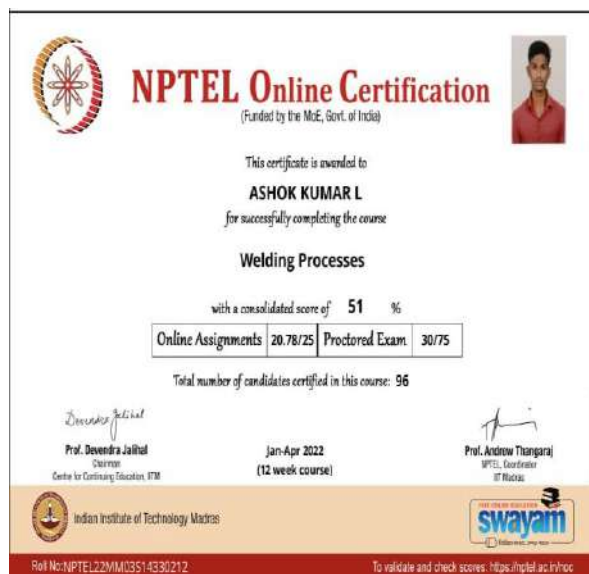
S. Anandraj (III A) won second prize in paper presentation held at Scad College of Engineering and Technology on 28th, May 2022.

Dr. Zeenathul Farida Abdul Gani, Professor/Mech, is the mentor for the mentees listed above.



NPTEL ONLINE CERTIFICATION

Second-Year Students Mr. Sherwin Josh J successfully registered and completed the NPTEL online certification for Oil Hydraulics and Pneumatics subject with a grade of 52 percent. Mr. Ashok Kumar L has successfully registered and completed the NPTEL online certification for Welding Processes subject with a score of 51%.

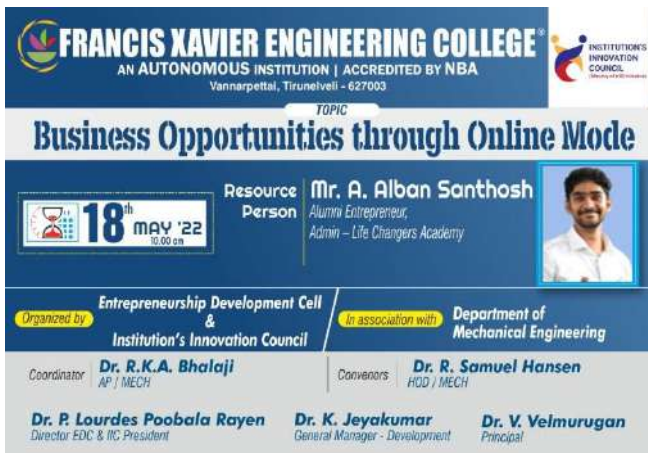


Mr. Saravana kumar M, AP/ Mech, a faculty member, has successfully registered and completed the NPTEL online certification With Elite for the Principles of Industrial Engineering subject with 61 percent. Dr. Samuel Hansen, Prof./Mech, a faculty member successfully registered for and completed the NPTEL online certification with Elite for the Principles of Industrial Engineering subject with an 84 percent score. Mr. Santiago Stephen, ASP/ Maths, a faculty member, has successfully registered and completed the NPTEL online certification With Elite for the Transform Calculus and Its Applications in Differential Equations subject with 73 percent. Mr. Vimalananth V.T, AP/ Mech, a faculty member, has successfully registered and completed the NPTEL online certification for the Engineering Graphics and Design subject with 55 percent.

 <p>Elite NPTEL Online Certification (Funded by the MoE, Govt. of India)</p> <p>This certificate is awarded to SARAVANA KUMAR M for successfully completing the course</p> <p>Principles of Industrial Engineering</p> <p>with a consolidated score of 61 %</p> <table border="1"> <tr> <td>Online Assignments</td> <td>19.06/25</td> <td>Proctored Exam</td> <td>42/75</td> </tr> </table> <p>Total number of candidates certified in this course: 275</p> <p>Prof. Sanjeev Manhas Coordinator, Continuing Education Centre IIT Roorkee</p> <p>Jan-Apr 2022 (12 week course)</p> <p>Prof. Priti Maheshwari NPTEL Coordinator IIT Roorkee</p> <p>Indian Institute of Technology Roorkee</p> <p>swayam</p> <p>Roll No: NPTEL22ME04533810266 To validate and check scores: https://npTEL.ac.in/noc</p>	Online Assignments	19.06/25	Proctored Exam	42/75	 <p>Elite NPTEL Online Certification (Funded by the MoE, Govt. of India)</p> <p>This certificate is awarded to SAMUEL HANSEN for successfully completing the course</p> <p>Principles of Industrial Engineering</p> <p>with a consolidated score of 84 %</p> <table border="1"> <tr> <td>Online Assignments</td> <td>18.44/25</td> <td>Proctored Exam</td> <td>65.82/75</td> </tr> </table> <p>Total number of candidates certified in this course: 275</p> <p>Prof. Sanjeev Manhas Coordinator, Continuing Education Centre IIT Roorkee</p> <p>Jan-Apr 2022 (12 week course)</p> <p>Prof. Priti Maheshwari NPTEL Coordinator IIT Roorkee</p> <p>Indian Institute of Technology Roorkee</p> <p>swayam</p> <p>Roll No: NPTEL22ME04544330607 To validate and check scores: https://npTEL.ac.in/noc</p>	Online Assignments	18.44/25	Proctored Exam	65.82/75
Online Assignments	19.06/25	Proctored Exam	42/75						
Online Assignments	18.44/25	Proctored Exam	65.82/75						
 <p>Elite NPTEL Online Certification (Funded by the MoE, Govt. of India)</p> <p>This certificate is awarded to A SANTIAGO STEPHEN for successfully completing the course</p> <p>Transform Calculus and Its Applications In Differential Equations</p> <p>with a consolidated score of 73 %</p> <table border="1"> <tr> <td>Online Assignments</td> <td>22.56/25</td> <td>Proctored Exam</td> <td>50.25/75</td> </tr> </table> <p>Total number of candidates certified in this course: 148</p> <p>Prof. Jayanta Mukhopadhyay Dean Outreach IIT Kharagpur</p> <p>Jan-Apr 2022 (12 week course)</p> <p>Prof. Debjani Chakraborty Coordinator, NPTEL IIT Kharagpur</p> <p>Indian Institute of Technology Kharagpur</p> <p>swayam</p> <p>Roll No: NPTEL22MA32544330602 To validate and check scores: https://npTEL.ac.in/noc</p>	Online Assignments	22.56/25	Proctored Exam	50.25/75	 <p>Elite NPTEL Online Certification (Funded by the MoE, Govt. of India)</p> <p>This certificate is awarded to V T VIMALANANTH for successfully completing the course</p> <p>Engineering Graphics and Design</p> <p>with a consolidated score of 55 %</p> <table border="1"> <tr> <td>Online Assignments</td> <td>23.16/25</td> <td>Proctored Exam</td> <td>31.5/75</td> </tr> </table> <p>Total number of candidates certified in this course: 85</p> <p>Prof. Devenidas Jaitil Dean Centre for Continuing Education, IITM</p> <p>Jan-Apr 2022 (12 week course)</p> <p>Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras</p> <p>Indian Institute of Technology Madras</p> <p>swayam</p> <p>Roll No: NPTEL22ME68514540443 To validate and check scores: https://npTEL.ac.in/noc</p>	Online Assignments	23.16/25	Proctored Exam	31.5/75
Online Assignments	22.56/25	Proctored Exam	50.25/75						
Online Assignments	23.16/25	Proctored Exam	31.5/75						

WORKSHOP

A Workshop on “Business Opportunities through online mode” was organized by Entrepreneurship Development Cell & Institution’s Innovation Council in association with the Department of Mechanical Engineering on 18th May, 2022 at 10.00 am to 11.00 am. The program was held via offline mode. Dr.R.Samuel Hansen, HOD/Mech inaugurated the workshop with welcome address. Mr. Alban Santhosh, Alumni Entrepreneur, Admin – Life Changers Academy was the resource person. The resource person addressed about what are the new ideas to start the business in online portal such as digital courses & tutoring business, startup advisor, technical writer, YouTube channel etc. He told online business is an opportunity to make money from anywhere in the world. He revealed owning and maintaining an online business gives entrepreneurs the freedom to earn money. Additionally he shown lot of real time examples about online business.



FRANCIS XAVIER ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION | ACCREDITED BY NBA
Vannarpettai, Tirunelveli - 627003

TOPIC
Business Opportunities through Online Mode

Resource Person **Mr. A. Alban Santhosh**
Alumni Entrepreneur,
Admin – Life Changers Academy

18th MAY '22
10:00 am

Organized by Entrepreneurship Development Cell & Institution's Innovation Council

In association with Department of Mechanical Engineering

Coordinator **Dr. R.K.A. Bhalaji**
AP / MECH

Convenors **Dr. R. Samuel Hansen**
HOD / MECH

Dr. P. Lourdes Poobala Rayen
Director EDC & IIC President

Dr. K. Jeyakumar
General Manager - Development

Dr. V. Velmurugan
Principal



Tirunelveli, Tamil Nadu, India
PPIF+VVV, Barani Nagar, Tirunelveli, Tamil Nadu 627003, India
Lat N 8° 43' 57.6264"
Long E 77° 43' 28.992"
18/05/22 10:06 AM

SEMINAR

A Seminar on “Entrepreneurial Opportunities to Mechanical Engineers in Solidworks” was organized by Entrepreneurship Development Cell & Institution’s Innovation Council in association with the Department of Mechanical Engineering on 19th May, 2022 at 11:00 to 12.00 pm. The program was held via offline mode. Dr.R.K.A.Bhalaji, AP/Mech inaugurated the seminar with welcome

address.

Mr. Abraham Jebamani Raj, Third Year Student, Mechanical Engineering, FXEC was the resource person. The resource person shared lot of ideas to become the entrepreneur through solid works with real time examples mainly for mechanical engineers. He told to create new designing software and teach others through online that are also an entrepreneur. Additionally, he revealed to start the academy for online learning software's such as solid works, autocad, catia etc.

FRANCIS XAVIER ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION | ACCREDITED BY NBA
Vannarpettai, Tirunelveli - 627003

INSTITUTIONS INNOVATION COUNCIL
University of Engineering & Technology

TOPIC
Entrepreneurial Opportunities to Mechanical Engineers in SolidWorks

Resource Person: **Mr. T. Abraham Jebamani Raj**
Third Year Student,
Mechanical Engineering - FXEC.

19th MAY '22
11:00 am

Organized by: **Entrepreneurship Development Cell & Institution's Innovation Council**
In association with: **Department of Mechanical Engineering**

Coordinator: **Dr. R.K.A. Bhalaji** (AP / MECH)
Convenors: **Dr. R. Samuel Hansen** (HOD / MECH)

Dr. P. Lourdes Poobala Rayen (Director EDC & IIC President)
Dr. K. Jeyakumar (General Manager - Development)
Dr. V. Velmurugan (Principal)

