



**FRANCIS XAVIER**<sup>™</sup>  
**ENGINEERING COLLEGE**  
**AN AUTONOMOUS INSTITUTION**

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## DEPARTMENT OF MECHANICAL ENGINEERING

### MONTHLY NEWS – SEPTEMBER 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 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 to announce that the Department of Mechanical Engineering is publishing the newsletter for the month of September 2022. Amidst the Covid Pandemic situation, we strived hard to keep the students engaged, and utilize the time not only for quality education and 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](mailto:samuel_hansen@rediffmail.com)

## EDITORIAL BOARD

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

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

# SEMINAR

A Seminar on “Entrepreneurs are Independent Minded Innovative People – A Discussion” was organized by Entrepreneurship Development Cell & Institution’s Innovation Council in association with the Department of Mechanical Engineering on 19th September 2022 from 10:00 am to 11.00 am. The program was held via offline mode. Dr.S.Balakrishnan, AP/Mech inaugurated the session with a welcome address.

Dr.R.K.A.Bhalaji, Assistant Professor, Department of Mechanical Engineering, FXEC was the resource person. Firstly, the resource person discussed the theories of entrepreneurship such as risk taker by Richard Cantillion (1755), Innovator by Joseph Schumpeter (1952), etc. He said that starting and running a business is the best way of controlling your destiny. Additionally, he talked about why we need to become an entrepreneur because of this reason such as freedom, changing the world, progress, social mobility, creative destruction, and creating a better future. As well as he explained the entrepreneurial process of effectuation & causation used by expert entrepreneurs. Finally, the resource person shared a lot of ideas as per current trends with new meaning & create a new concept with innovation.

EMPOWERING EDUCATION; GLOBAL LEADERSHIP.

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Vannaripandi, Tirunelveli - 627 083

**INSTITUTION'S INNOVATION COUNCIL**  
(Library of Education Institute)

RESOURCE PERSON

TOPIC

**Entrepreneurs are Independent Minded Innovative People – A Discussion**

Organised by  
Entrepreneurship Development Cell &  
Institution's Innovation Council

In association with  
Department of Mechanical Engineering

19<sup>th</sup>  
SEPTEMBER,  
2022  
10.00 AM

**Dr. R.K.A. Bhalaji**  
Assistant Professor / Mech,  
Francis Xavier Engineering College

Co-ordinator  
**Dr. S. Balakrishnan**  
AP / MECH

Convener  
**Dr. R. Samuel Hansen**  
HoD / MECH

**Dr. Lourdes Poobala Rayen**  
Director EDC and IIC President

**Dr. K. Jeyakumar**  
General Manager - Development

**Dr. V. Velmurugan**  
Principal



# SEMINAR

A “Enhancing the Entrepreneurial Skillset of the Budding Engineers” was organized by Entrepreneurship Development Cell & Institution’s Innovation Council in association with the Department of Mechanical Engineering on 21st September 2022 from 01:30 pm to 02.30 pm. The program was held via offline mode. Dr.R.K.A.Bhalaji, AP/Mech inaugurated the session with a welcome address.

Dr.S.Balakrishnan, Assistant Professor, Department of Mechanical Engineering, FXEC was the resource person. The resource person discussed what is the need for entrepreneurial skills said Hank Kopcial, NFIB Young Entrepreneur Foundation. He told clearly about entrepreneurship can be risky due to sporadic income, less security, loss of investment, harder to find work or start again, etc but in future perspective surely, we will get some rewards because of entrepreneurship such as Financial (Profits & Capital Growth) and Non-Financial (Independence, Being in control, employing more people, etc). As well as resource person told most entrepreneurs are good at what they do, but they don’t know how to plan for and operate a small business. Another thing he was discussed why should students and parents care about entrepreneurship education. Finally, he finished the talk with “Entrepreneurs allow you to dream your destiny and craft a job that you can excel”.

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**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education, India)

**21<sup>st</sup>**  
SEPTEMBER, 2022  
1.30 PM

**TOPIC**  
**Enhancing the Entrepreneurial Skillset of the Budding Engineers**

**RESOURCE PERSON**

**Organised by**  
Entrepreneurship Development Cell & Institution's Innovation Council

**In association with**  
Department of Mechanical Engineering

**Dr. S. Balakrishnan**  
Assistant Professor  
Mechanical Engineering  
Francis Xavier Engineering College, Tirunelveli.

**Co-ordinator**  
**Dr. R.K.A. Bhalaji**  
Assistant Professor / MECH

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

**Dr. Lourdes Poobala Rayan**  
Director EDC and IIC President

**Dr. K. Joyakumar**  
General Manager - Development

**Dr. V. Velmurugan**  
Principal





# SEMINAR

A “Discussion with Student Entrepreneur” was organized by Entrepreneurship Development Cell & Institution’s Innovation Council in association with the Department of Mechanical Engineering on 24th September 2022 from 11:00 am to 12.00 pm. The program was held via offline mode. Dr.R.K.A.Bhalaji, AP/Mech inaugurated the session with a welcome address.

Mr.S.M.K.Sri Chanthru, Student Entrepreneur, Second Year Mechanical Engineering, FXEC was the resource person. First of all the resource person discussed characteristics of entrepreneurs such as risk taker, imaginative, goal setter, hardworking & self-confident person, etc. As well as he told about what are the skills needed for an entrepreneur such as research, leadership, management, and relationship skills. In addition to this, he shared the idea about what are the obstacles faced by an entrepreneur in the emerging world and also he revealed new business opportunities for students as per recent trends. Regarding his own business resourced person ordered some electronic products from New Delhi and assembled them into the new branded products like OLED TV based on customer satisfaction.

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**INSTITUTION'S INNOVATION COUNCIL**  
The Key to Education Initiatives

**24<sup>th</sup> SEPTEMBER, 2022**  
11.00 AM

**TOPIC**  
**Discussion with Student Entrepreneur**

**RESOURCE PERSON**  
**Mr. S.M.K. Sri Chanthru**  
Student Entrepreneur,  
Second Year,  
Mechanical Engineering, FXEC.

Organized by  
Entrepreneurship Development Cell &  
Institution's Innovation Council

In association with  
Department of  
Mechanical Engineering

Co-ordinator  
**Dr. R.K.A. Bhalaji**  
Assistant Professor / MECH

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

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