Events Organized 2023-24

INNOVATION DAY 2K23

Title of the Event: Technical Model Exhibition-cum-Competition
Date of the Event: 16th October 2023
No. of Students Participated: 112 Participants (28 batches) from III and IV year, B.Tech EIE

Brief Report on Innovation Day Event

Department of Electronics & Instrumentation Engineering organized and celebrated Innovation Day celebrations on 16th October 2023. On the eve of Innovation Day, the department of EIE organized Technical model Exhibition- cum - Competition in online. The outcome of this event is to encourage the students to convert their innovative ideas into real time projects, which will be helpful to the society. 28 project models by 30 participants were exhibited from different fields of applications. The models exhibited belongs to thrust areas like Smart Irrigation with Internet of Things (IoT), Control and automation, Internet of Things (IoT), Advanced Sensors and Bio Medical. Out of 28, 2 models was exhibited under Smart Irrigation with Internet of Things (IoT), 2 model was exhibited under energy harvesting, 10 models was exhibited under Control and automation, 1 model was exhibited under Railway safety, 5 models was exhibited under Bio Medical and 8 models was exhibited under IoT based applications.

The project titled "Safe street initiative by open man hole detection using IoT" exhibited by V.Indira devika (218W1A1052), A.anupama (218W1A1003), K.Lakshmi Swetha Sri (198W1A1052) and D.Anantha Sri Ram (218W1A1011), of III/IV B Tech EIE won the first prize. The working model titled "IoT based smart poultry farm Management System" by M.Venakata Sai Prasad (218W5A1006), CH.Meenakshi (208W1A1009), M. Nicy (208W1A1029) and D.Charan babu (208W1A1013), of IV/IV B.Tech EIE won second prize.Also, Two appreciation prizes are announced by Guest of honour to the students.

Mr. A.Gopi Raj, CEO, Flopple Drone Tech PVT Ltd, Kankipadu was invited to evaluate the performance of the students working models and their innovative ideas.

This event was coordinated by Mrs.K.Prasanti.

Innovation Day Photos

Model Name:Water balancing system in agriculture land

Model Name:Mobile Control Robot Using DTMF

Model Name: Empowering sericulture with intelligent environmental monitoring and controlling

Model Name: Enhancing railway safety harnessing sensor technology drastically reduce train accidents

Model Name :**Non-invasive blood gollose measurement based on temperature approach**

Model Name:IOT enabled assistive device for visually impaired

Model Name: **Thermoelectric energy harvesting from non-biodegradable dry waste**

Model Name: Automatic vehicle access control into the apartments using face
detection and ANPR technologies

Model Name: **Lung disease detection using deep learning on NVIDIA Jetson Nano**

Model Name: **Night patrolling robot**

Model name: Automatic solar insect trap

Model Name: **IOT based smart street light system**

Model Name: **Cloud-based IOT Monitoring system for poultry farming**

Model name: An autonomous rover for weed removal

Model Name: Vertical greenhouse onion farming

Model Name: **Crop suggestion using machine learning**

Model Name: **Thermoelectric energy harvesting from non-biodegradable dry waste**

Model Name: ML based hardware model for measuring temp, spO2, heartrate

Model Name: Automatic solar insect trap

Model name: Hightech aquaponics

Model Name: **safe streets initiative by open manholes detection**

Report on Poster Presentation on Business Plans

Title of the Event: Poster Presentation on Business Plans
Date of the Event: 28th August 2023
No. of Students Participated: 38 Participants

Brief Report on the Event

Department of Electronics & Instrumentation Engineering organized and Institution and Innovation Council jointly organised a Poster Presentation on Business Plans on 28th August 2023. The event aims to inspire students to transform their innovative ideas into tangible projects with real-world impact. By bridging the gap between imagination and execution, students are empowered to address societal needs. This initiative fosters a proactive approach, nurturing a culture of innovation and social responsibility. As students delve into practical project development, they gain valuable skills, teamwork experience, and a sense of accomplishment. Ultimately, the event cultivates a generation of forward-thinkers who recognize the potential of their ideas and have the drive to create positive change in their communities, making innovation a driving force for societal betterment.

Dr.Murali Kilaru, Advanced Packaging Technologist, Intel Corporation, USA was invited to evaluate the performance of the students innovative ideas. This event was coordinated by Mr.V.N.Prudhvi Raj and Mrs.K.Prasanti.

Photos of students presenting their Business Plans

Guest Lecture Report on My Story- Motivational Session by Successful Innovator

The IIC and Department of EIE jointly organized a guest talk on "**My Story-Motivational Session by Successful Innovator**" on 16th October 2023. The objective of this program was to motivate the students to become a good Entrepreneur. Mr. Gopi Raja Ambula, CEO of Fopple Drone Tech Pvt. Ltd, FOPPLE DRONE TECH PVT.LTD. 10/9, Kankipdau, Near Vijayawwada Krishna Dt, Andhra Pradesh was the resource person for this event.

He mainly addressed about Early Beginnings (2015):

In 2015, His entrepreneurial journey with a vision to create a solution that could revolutionize the way agriculture is practiced. At this point, he likely had a deep interest in both technology and agriculture, which led he explore the potential of drones for agricultural applications.

Conceptualizing Agricultural Spraying Drones:

His journey began with the concept of agricultural spraying drones. These drones are equipped with advanced technology and are designed to spray pesticides, fertilizers, and other necessary agricultural inputs on crops. This concept was born out of the recognition of the need for more efficient and sustainable farming practices in India.

Product Development and Testing:

He likely started working on designing and developing the agricultural spraying drones. This phase involved extensive research and development to create a reliable and effective solution that could address the specific needs of Indian farmers.

Education and Awareness:

One of the key turning points in his journey was when you decided to focus on educating farmers about the benefits and potential of agricultural spraying drones. You realized that simply creating a product wasn't enough; you needed to ensure that farmers were aware of how this technology could improve their agricultural practices. This educational component of your journey is crucial in understanding how yhe brought the technology to the limelight.

Reaching Millions of Farmers Pan India:

His dedication to educating farmers across India had a significant impact. Through various means, such as workshops, seminars, demonstrations, and perhaps even online resources, he managed to reach millions of farmers across the country. This educational effort not only helped in promoting your product but also empowered farmers with knowledge about modern agricultural practices.

Market Penetration:

As more and more farmers became aware of the benefits of agricultural spraying drones, the adoption of this technology began to grow. He played a key role in making spraying drones a common usage for Indian farmers. His efforts were likely supported by effective marketing strategies, partnerships with agricultural organizations, and government initiatives that promoted the adoption of modern farming techniques.

Impact on Indian Agriculture:

The widespread adoption of agricultural spraying drones in India had a profound impact on the agricultural sector. Farmers were able to increase their crop yields, reduce the use of chemicals, and improve the overall efficiency of their farming operations. This not only benefited individual farmers but also contributed to the sustainability of agriculture in India.

Recognition and Future Plans:

Your journey would have likely gained recognition in the agriculture and technology sectors. His story can serve as an inspiration for other young entrepreneurs. Moving forward, he might have plans to expand his product offerings, improve the technology, and continue to support the modernization of Indian agriculture. Also he answered to the questions posed by the students.

This event was coordinated by Mr.V.N.Prudhvi Raj and Mrs.K.Prasanti.

Guest Lecture Report on Angel Investment/VC Founding Opportunity for Early Stage Entrepreneurs

The institution and Innovation Council and Department of EIE jointly organized a guest lecture on "**Angel Investment/VC Founding Opportunity for Early Stage Entrepreneurs**" on 31/08/2023.

This program was meticulously crafted with the primary goal of cultivating a profound understanding of diverse investment avenues while underscoring the pivotal role that angel investments play in the dynamic landscape of entrepreneurship. By delving into a comprehensive exploration of various investment modalities, our aim is to empower participants with the knowledge and insights necessary to make informed financial decisions.

Through a multifaceted curriculum, participants will embark on a transformative learning journey, immersing themselves in the intricacies of stocks, bonds, mutual funds, real estate, and alternative investments. The program is strategically designed to demystify the intricacies of these investment vehicles, ensuring that participants not only grasp the foundational concepts but also develop the acumen to discern the potential risks and rewards associated with each.

At the heart of this program lies a profound emphasis on angel investments, a driving force behind the success stories of numerous entrepreneurial ventures. By elucidating the mechanics of angel investments, we endeavor to spotlight how these visionary investors provide more than just financial backing; they offer mentorship, guidance, and industry expertise that can be instrumental in steering startups towards growth and sustainability. Participants will gain insights into the art of pitching to angel investors, understanding term sheets, and forging symbiotic relationships that transcend the realm of mere capital infusion.
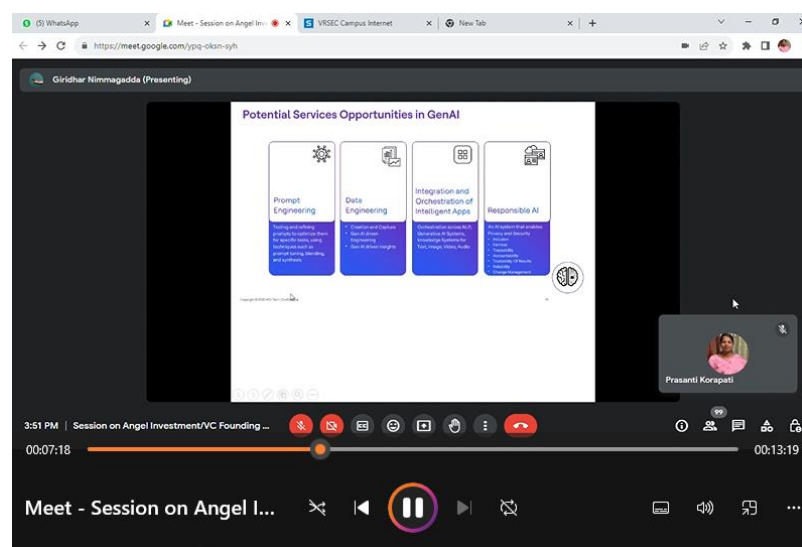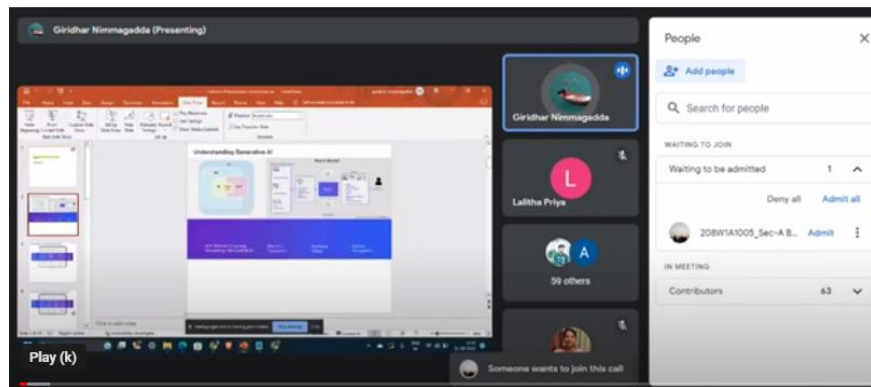
As we navigate through case studies, interactive workshops, and engaging discussions, participants will not only cultivate financial literacy but also develop a strategic mindset essential for entrepreneurial triumph. This program transcends theoretical knowledge, fostering a practical orientation that equips participants to navigate the complex interplay of financial markets, risk management, and innovation-driven enterprise.

In essence, this program aspires to instill a profound appreciation for the diverse tapestry of investment opportunities while shining a spotlight on angel investments as a catalyst for entrepreneurial metamorphosis. By the program's culmination, participants will emerge as enlightened individuals capable of not only making astute investment decisions but also harnessing the power of angel investments to catalyze their own entrepreneurial odysseys.

N.Giridhar, Technical Solution Architect, Wipro, Hyderabad was the resource person for this event. He mainly addressed what is an angel investor, how the popularity is increasing in past to present, which parameters focus before investing, venture capital and where should angel

invest etc. He answered to the questions posed by the students such as how we will start company based on idea, investment opportunities from the government and industrialists etc.

This event was coordinated by Mr.V.N.Prudhvi Raj and Mrs.K.Prasanti.

Brief Report on
AI in Speech Processing

Title of the Webinar: "AI in Speech Processing"
Date of Webinar: Tuesday, September 5
Google Meet joining info, Video call link: https://meet.google.com/kii-uzro-jqo
About the Speaker:

Dr.V Anil Kumar recieved the Ph.D degree from the IIT KHARAGPUR in 2012 working as Associate Professor at IIIT Hyderabad. His research interests are Speech recognition, Speaker recognition, Language identification, Speech processing in emotion conditions, Pathological speech processing and Speech to speech machine translation. He published 5 book chapters, published 118 articles in international journals and conferences in the are of speech processing. He was the principal investigator for 12 research projects funded by various public and private funding agencies.

About the webinar:

A total of 63 participants were attended the webinar to update their knowledge in the area of speech processing. The webinar covered the fundamentals of speech processing, publicly available datasets, reseach challenges in the area of speech processing, deep learning models used to solve various problems in the area of speech processing.

Coordinator:

Mr. V N Prudhvi Raj, Assoc.Prof, EIE Department, Senior Member IEEE.