

A REPORT

on

SOCIAL INNOVATION PROTOTYPE EXPO



On 18th November, 2023

Time: 9.30 AM to 2:00 PM

Venue: MBA Seminar Hall

Dr. Sudheer Shetty
EDC Coordinator, AIET

Dr. Peter Fernandes
Principal, AIET

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In association with Entrepreneurship Development Cell (EDC), Institution's Innovation Council (IIC) and ComedKares Innovation Hub, the Department of Information Science & Engineering of Alva's Institute of Engineering & Technology organized a “**Social Innovation Prototype Expo**” on **Saturday, 18th November 2023** in the **MBA Seminar Hall** at **9:30AM**.

The programme began at 9:30 AM. Dr. Sudheer Shetty, Professor & Head, Department of ISE and EDC Coordinator, AIET, gave a warm welcome to everyone and introduced the chief guests to the gathering as well. In the presence of Managing Trustee Mr. Vivek Alva, Dean Student Affairs Prof. Durgaprasad Baliga, AIML HoD Prof. Harish Kunder, and CSD HoD Prof. Venugopal Rao, the program was formally inaugurated by the chief guests, Mr. Orwin Noronha, Managing Director, Leowin Solutions Pvt. Ltd., and Mr. Rithwik Ammunje Nayak, Managing Director, Life Essential Water Solutions Pvt. Ltd.



The managing trustee Mr. Vivek Alva precedes the programme by addressing the students regarding the need for social connect and the importance of innovation. He appraised the EDC cell for conducting an innovative competition of this kind.

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The chief guest Mr. Orwin Noronha recalled his various innovative activities done during his childhood. He is a visionary serial innovator having a mission to transform the world. The revolutionary "MozziQuit" Mosquito Trap, which is a testament to Mr. Noronha's inventiveness in combating the mosquito threat, is the centrepiece of his mission. After years of research and development, this innovative device attracts, traps, and kills female mosquitoes without the need of chemicals, consumables, or dangerous fumes. With an incredible track record, one MozziQuit gadget has managed to trap and eliminate more than 100 million female mosquitoes in just three months, offering a viable and sustainable solution to reduce the spread of diseases carried by mosquitoes.

The impact of Mr. Noronha goes beyond keeping mosquitoes away. His innovative "Specialized Concrete Mix Design" for roads, which only requires a 4" thickness, defies accepted wisdom. His creativity is demonstrated by the concrete road at the IOCL Petrol Pump in Goregaon East, Mumbai, which was laid in April 2000 and has been reliable and high-quality for more than 17 years. Notably, in contrast to the customary 28-day curing process, this drive was opened to traffic barely 24 hours after it was finished.

Mr. Orwin Noronha stands as a beacon of inspiration, showcasing how visionary ideas and relentless dedication can lead to transformative solutions with far-reaching impacts. He shared his journey of becoming an entrepreneur and the challenges faced during the developing mosquito trap device. Mr. Orwin motivated the students to not give up in the

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hardship of starting a new venture. He told the students to always observe the surroundings and identify the problems exist in the society and try to develop innovative ideas to mitigate it.



The other resource person Mr. Rithwik Ammunje Nayak shared various motivational quotes which helped him in his carrier growth and gave an insight into his entrepreneurial journey. Mr. Rithwikis the visionary behind 'Life Essentials', a proprietary water treatment company. In 2013, armed with a degree in Instrumentation and Controls, Mr. Nayak founded his water treatment company, initially focusing on commercial applications in coastal and northern Karnataka. His breakthrough project was in 2015, catering to the Kaup Town Municipal's water challenges, marked the beginning of 'Life Essentials' impactful journey.

Since 2017, Mr. Nayak has elevated the company's standing, becoming Thermax Ltd's top seller for specific heating and water products. Beyond commercial success, 'Life Essentials' has spearheaded wastewater recycling projects across households, institutions, and government bodies. He is a leader committed to addressing critical water challenges and shaping a sustainable future for southern Karnataka and beyond.

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Mr. Abhishek Bhat of Final Year ISE proposed vote of thanks. The guests were later made a visit to various prototypes prepared by the students of AIET.



20 Innovative Prototypes were exhibited in the Social Innovative Prototype Expo.

Glimpses of Social Innovative Prototype Expo



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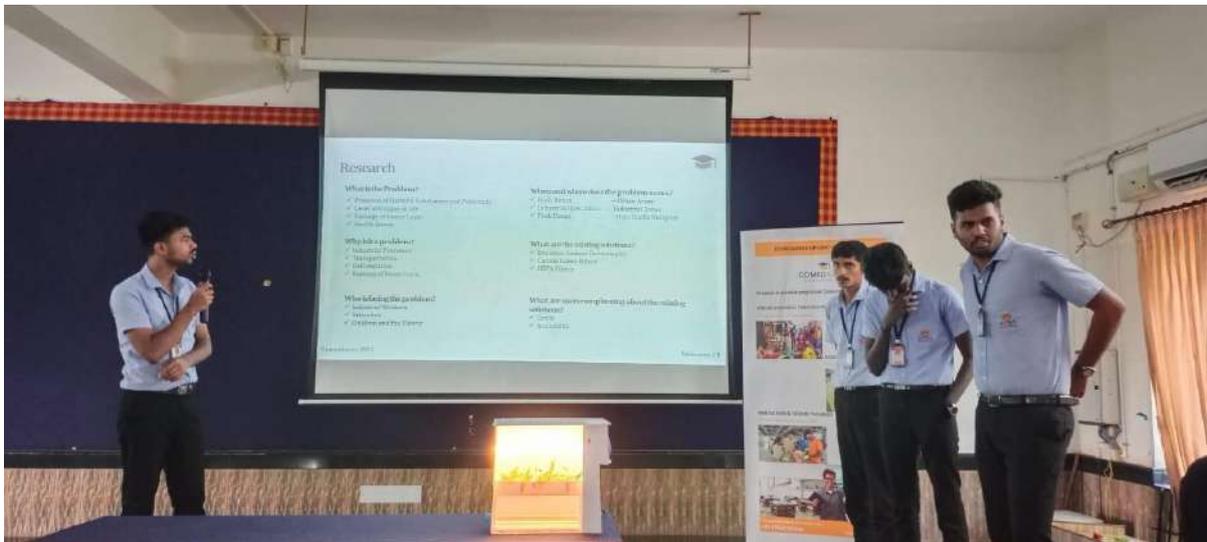
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Top three Innovative prototypes were awarded with prizes.



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The first prize is awarded to the team from Computer Science & Design department for the prototype titled “Smart Street Lighting System for Energy-efficient and Cost-effective Public Lighting”. The team members are

SN	USN	Name
1.	4AL21CG031	Karthik
2.	4AL21CG042	Prathiviraj K
3.	4AL21CG051	Shibani
4.	4AL21CG052	Shivani
5.	4AL21CG053	Shravya
6.	4AL21CG059	Suraksha

The prototype's idea is to use the unique properties of piezoelectric materials to generate electricity through vibrations or mechanical stress. The Piezoelectric Street Light converts kinetic energy from footsteps, vehicle movement, or ambient vibrations into usable electrical energy by utilizing these materials that are integrated into the infrastructure. The street lights are powered by this transformed energy, resulting in a self-sufficient lighting system that lowers its reliance on conventional power sources and has a smaller environmental impact.

The second prize is won by the team from Information Science & Engineering department for the prototype titled “Farmbot: Seeding and Water Management”. The team members are

SN	USN	Name
1.	4AL21IS021	Kelvin D'Mello
2.	4AL21IS048	Sharavi R Rai
3.	4AL21IS043	Sannidhi K S
4.	4AL21IS004	Akash Devadiga
5.	4AL21IS054	Sooraj
6.	4AL22IS402	Chetan Byahatti

Due to the increase in labour and their increase in labour charges a farm bot is made which can do multipurpose work in the agriculture field such as watering the plant, sowing the seed, fertilizing the plant etc. The system is designed to optimize resource usage and crop growth

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while providing users with control over their farming processes. It allows users to plant seeds, water plants, and manage other aspects of cultivation through a web-based interface.

The team from the Artificial Intelligence & Machine Learning department wins third place for their prototype, "Conservation and Reuse of Rain Water." The team members are

SN	USN	Name
1.	4AL21AI061	Y Jayaprakash Yadav
2.	4AL22AI400	Ajay K A
3.	4AL21AI058	Vanditha T C
4.	4AL21AI052	Sushila K Navi
5.	4AL21AI048	Sridhar V
6.	4AL21AI035	Punith Kumar P V

This prototype through the integration of soil moisture sensors and smoke sensors offer an efficient and sustainable approach to water management. This smart approach also provides safety against potential fires, reflecting a commitment to environmental responsibility and resource management.

At the wrap-up of the event, Dr. Sudheer Shetty, the EDC Coordinator, presented the mementoes to the resource persons.



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Conclusion

The "Social Innovation Prototype Expo" was a fascinating and informative event that offered insightful information about innovation, prototypes, products, etc. Designing and implementing novel solutions that suggest conceptual, procedural, product, or organizational change with the ultimate goal of enhancing the welfare and well-being of people as well as communities is known as social innovation. Prototyping is an essential approach used in social innovation labs to develop, test, and refine ideas before devoting significant resources



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to their implementation. The expo gave the opportunity to test and expand on that idea in new ways, grow from it, and improve it even more. In order to develop and test a new idea, refine an existing idea through iterative cycles, and ultimately determine and test the viability of a business model, growth model, or policy, prototyping can be applied at any stage of the innovation process. Social innovation is significant because it helps establish and maintain corporate culture. Social innovation expo assisted in developing fresh perspectives on societal problems like poverty, education, and human rights, as well as new business models that encourage social and environmental responsibility. Public officials, social entrepreneurs, and regular citizens can all benefit from the power of social innovation by gaining new perspectives and abilities that will help them build healthier communities and encourage creative solutions to public and social issues.

Students left the day's presentations feeling motivated and well-prepared to follow their dreams of becoming innovators and entrepreneurs. The event served as a platform for collaboration and the exchange of ideas, fostering a spirit of entrepreneurship and innovation among the student innovators.

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