Report

Institute Innovation Council, Pt. Ravishankar Shukla University, Raipur

Conducted

Lecture Session

On

"Innovations and Startups: Enabling Next-Gen Smart Portable Pollution Control"

A Self-driven activity by Mr. Arun Patel

On

04 August 2025

Poster

PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G)

IIC SELF DRIVEN ACTIVITY

Innovations and Startups: Enabling Next-Gen Smart Portable Pollution Control

Date:-04/08/2025
Time:- 3 PM
Venue:- CV Raman Hall

Presented By:-
Mr. Arun Kumar Patel
IPR Coordinator
Member of IIC
Pt. Ravishankar Shukla University, Raipur

Details of the Events

Name of Program Type	Lecture Session on Innovation and Entrepreneurship Awareness (self-driven activity IIC 7.0)
Name of Program Theme	Advancing smart, portable tech to monitor and reduce pollution for healthier, sustainable living.
Objective	Develop smart, portable pollution control tech for real-time monitoring and improved air quality.
Benefit	Smart portable pollution control boosts real-time monitoring, awareness, and cleaner environments.
Duration of Activity	2 hour
Mode of Event	Offline
No. of Students Participants	40
No. of Faculty Participants	3
No. of External Participants	NIL

Attendance

Institute Innovation Council
Pt. Ravishankar Shukla University, Raipur
Chhattisgarh – 492010
(Under The Initiative of Ministry of Education's Innovation Cell)
Aishe Code: U-0093
IIC ID: IC201810375

"Self-Driven Activity"

Innovations and Startups: Enabling Next-Gen Smart Portable Pollution Control"

Attendance Sheet **Date-**

S. No.	Name of Students	Department	Email Id	Sign
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Program Summary:

A lecture on "Innovations and Startups: Enabling Next-Gen Smart Portable Pollution Control" was delivered by Mr. Arun Kumar Patel, PhD Scholar, Department of Electronics, Pt. Ravishankar Shukla University, Raipur. The session highlighted how innovative ideas and startup culture are key drivers in solving environmental challenges. Mr. Patel explained that traditional pollution control systems are often bulky and costly, whereas next-gen smart portable devices developed through innovation can provide affordable, efficient, and user-friendly solutions. He emphasized the potential of emerging technologies such as IoT, AI, nanomaterials, and 3D printing in developing sustainable tools for pollution monitoring and control.

The lecture also underlined the importance of fostering a strong startup ecosystem to translate laboratory research into real-world applications. Mr. Patel stressed that incubation centers, government schemes, and entrepreneurial initiatives play a vital role in supporting young innovators. By encouraging students and researchers to pursue innovation-led ventures, he conveyed that Startups can create scalable, market-ready solutions that not only address local pollution issues but also contribute to global sustainable development.

Institute Innovation Council

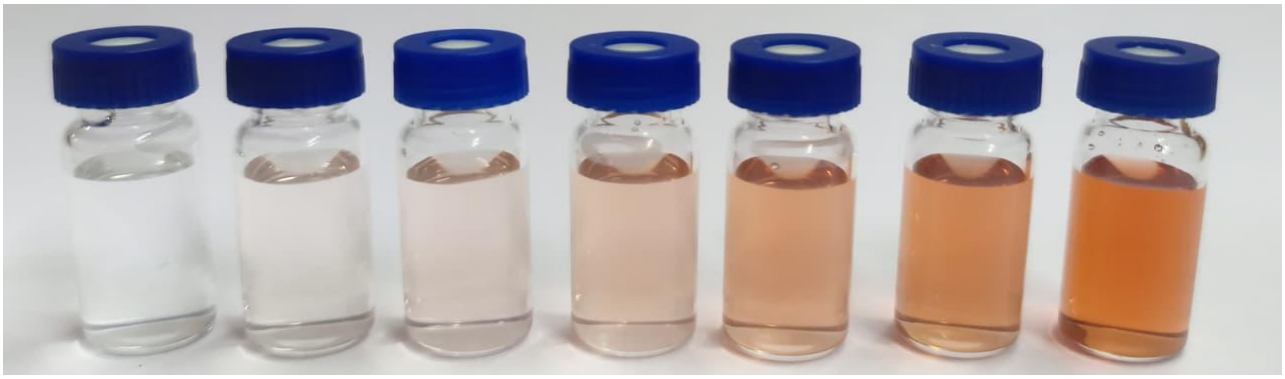
Pt. Ravishankar Shukla University, Raipur
Chhattisgarh – 492010

(Under The Initiative of Ministry of Education's Innovation Cell)

Photos of the Event







Conclusion

In conclusion, innovations and Startups are at the forefront of transforming pollution control through smart, portable technologies. By integrating cutting-edge sensors, AI, and IoT, these solutions offer real-time, accurate monitoring of environmental pollutants, empowering users to take immediate action. Such advancements not only enhance public awareness but also facilitate data-driven decision-making for cleaner air and healthier communities. The agility and creativity of Startups play a crucial role in making pollution control accessible and effective, driving sustainable development. Moving forward, continued support and collaboration between technology innovators, policymakers, and communities will be essential to maximize the impact of these next-gen pollution control tools.

Dr. Kavita Thakur
President, IIC PRSU