



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



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1947 TO 2047



Institute's Innovation Council
Pt. Ravishankar Shukla University Raipur
IIC-PRSU

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

Report- “Exposure visit to the DST Design and Prototyping Lab”

The Institute Innovation Council (IIC) of Pt. Ravishankar Shukla University, Raipur, in association with the School of Studies in Electronics and Photonics and the Institute of Renewable Energy Technology and Management, organized an exposure visit to the DST Design and Prototyping Lab on February 15, 2025. The visit was conducted at the School of Studies in Chemistry and Physics, PRSU, and formed a part of the Ministry of Education's Innovation Cell initiative that encourages field and exposure visits to pre-incubation units such as AICTE Idea Labs, Fab Labs, Maker Spaces, Design Centers, MSME clusters, and workshops. The central aim of the program was to provide students, research scholars, and faculty members with first-hand exposure to advanced innovation facilities, create awareness about pre-incubation support systems, and inspire the academic community to transform innovative ideas into tangible products and entrepreneurial ventures.

The program commenced at 11:30 AM with the formal welcome of the participants, followed by an introduction to the purpose and importance of the visit. Faculty coordinators outlined the role of the DST Design and Prototyping Lab as a hub of creativity and technological advancement within the university. They explained how such facilities are integral to bridging the gap between academic learning and practical innovation by offering students an environment where their ideas can be nurtured, tested, and refined. The lab was presented as an essential component of the pre-incubation ecosystem, enabling early-stage innovators to experiment with concepts before taking them forward to incubation and commercialization.

During the course of the visit, participants were given an overview of the lab infrastructure and the range of equipment available for use. Experts and coordinators conducted live demonstrations of prototyping tools, showcasing how abstract concepts can be converted into functional prototypes. Students were introduced to modern technologies including 3D printers, fabrication instruments, and circuit design kits, which are essential for building and testing models in diverse fields of science and engineering. The demonstration allowed participants to gain a practical understanding of design thinking and iterative development, and they witnessed how these processes accelerate innovation and product development.

The exposure visit also highlighted the significance of design-oriented problem solving and rapid prototyping in today's competitive landscape. Faculty members emphasized the importance of experimentation, creativity, and interdisciplinary collaboration in the innovation journey. They also elaborated on the role of pre-incubation facilities in strengthening the university's entrepreneurial ecosystem by providing mentorship, technical support, and access to resources. Students actively participated in interactive sessions, asking questions about the application of various tools and exploring possibilities of using the lab for their own academic projects, research work, and entrepreneurial pursuits. This engagement not only deepened their technical knowledge but also cultivated confidence in applying classroom learning to real-world challenges.



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The outcomes of the exposure visit were highly positive and far-reaching. The program enhanced awareness among students about the innovation ecosystem available within Pt. Ravishankar Shukla University and instilled an entrepreneurial mindset among the participants. Students gained valuable insights into prototyping methodologies, improved their technical competencies, and understood the process of converting an idea into a workable model. The visit also motivated them to think beyond the conventional boundaries of academic study and to envision pathways for creating impactful innovations that address societal and industrial needs. By engaging with advanced facilities and interacting with mentors, students experienced the practical side of innovation and were encouraged to develop a spirit of creativity, critical thinking, and teamwork.

The exposure visit to the DST Design and Prototyping Lab not only benefitted the students but also enriched the faculty members who accompanied them. It reinforced the importance of providing young innovators with access to state-of-the-art facilities and highlighted the role of the university in fostering an innovation-driven culture. The experience demonstrated how field and exposure visits to pre-incubation units contribute to skill development, capacity building, and the nurturing of an entrepreneurial ecosystem within higher education institutions.

In conclusion, the exposure visit proved to be an enriching and transformative experience for all participants. It successfully aligned with the objectives of the Institution's Innovation Council and the Ministry of Education's Innovation Cell by promoting experiential learning, encouraging entrepreneurial thinking, and fostering a culture of innovation within the university. The DST Design and Prototyping Lab served as a powerful demonstration of how pre-incubation facilities can bridge the gap between theoretical knowledge and practical application, providing students with the tools and confidence needed to pursue innovation-driven careers. Such initiatives play a crucial role in strengthening the overall innovation and startup ecosystem of the university, and the visit is expected to inspire participants to actively engage with the available resources, undertake innovative projects, and contribute meaningfully to the advancement of technology, society, and the nation.





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