



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- “Innovation & Entrepreneurship Outreach Program in Schools”

The Institute Innovation Council (IIC) of Pt. Ravishankar Shukla University, Raipur, organized an Innovation & Entrepreneurship Outreach Program at Jagannath Rao Dani Girls School, Raipur, with a special focus on students actively engaged in the Atal Tinkering Lab (ATL) on 17th February, 2025. Conceptualized as an intensive four-hour expert lecture and hands-on engagement session, the initiative aimed to provide school students with exposure to the culture of innovation, while equipping them with the tools and mindset necessary to explore tinkering, problem-solving, and entrepreneurship at an early stage. The program not only emphasized the practical aspects of ideation and prototyping but also introduced the fundamentals of entrepreneurial thinking, bridging the gap between creativity and application.

The outreach brought together students from grades X to XII, along with their ATL mentors, teachers, and school coordinators, all of whom played an active role in the learning process. The session was carefully structured to balance theory and practice, combining short lectures, live demonstrations, and interactive tinkering activities. Students were divided into small, collaborative teams, which encouraged peer-to-peer learning, active communication, and teamwork, thereby simulating real-world innovation environments.

The methodology adopted during the program was rooted in experiential learning and iterative design processes. Students were guided through the principles of design thinking: empathize, define, ideate, prototype, and test, while simultaneously being introduced to the basics of entrepreneurship frameworks such as problem-solution fit, value proposition design, and pitching techniques. The structure ensured that even students new to the concepts could quickly grasp and apply them in a practical, hands-on context.

A crucial component of the program was the support provided by the Atal Tinkering Lab of Jagannath Rao Dani Girls School, which served as the backbone for hands-on experimentation. The lab's resources ranging from sensors and microcontrollers to basic prototyping materials, enabled



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students to turn ideas into tangible models within the limited duration of the workshop. The ATL mentors played a dual role by not only providing technical support but also assisting Ms. Preeti Nema, the resource person, in managing logistics, supervising the student teams, and ensuring that follow-up mentorship would be available beyond the program's immediate timeframe.

The key activities conducted during the session included live demonstrations of maker tools and microcontroller basics, guided ideation and problem-scoping exercises, and rapid prototyping using both ATL equipment and low-cost, easily available materials. In addition, mini-workshops on entrepreneurship fundamentals, such as validating ideas and understanding user needs, were interwoven into the activities to help students connect their prototypes to real-world applications. The culmination of these efforts was the preparation and delivery of short team pitches, where students presented their prototypes to peers and facilitators, receiving constructive feedback on their clarity, feasibility, and potential impact.

The outcomes of the program were multifaceted. Students not only gained hands-on technical exposure to tinkering and prototyping but also learned how to frame problems, develop creative solutions, and communicate their ideas effectively. Teachers and ATL mentors benefitted by observing and participating in structured innovation exercises that they could replicate in the future. Importantly, the outreach served as a catalyst for strengthening the relationship between the university's Institute Innovation Council and the school's Atal Tinkering Lab, creating opportunities for sustained collaboration, long-term mentorship, and the nurturing of young innovators.



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Photos



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