Report

Institute Innovation Council,

Pt. Ravishankar Shukla University, Raipur

Observed

Two-day workshop

On

"Adaptive Manufacturing: 3D Printing and Design"

On

April 11-12, 2025

In association with

S.o.S. in Electronics & Photonics *and* IRETM

Pt. Ravishankar Shukla University, Raipur (C.G.)

Poster


INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)
MoE's INNOVATION CELL (GOVERNMENT OF INDIA)
IIC-PRSU
Institute Innovation Council
Pt Ravishankar Shukla University, Raipur
in association with
Innovation & Incubation Centre,
S.o.S in Electronics and Photonics
Pt. Ravishankar Shukla University, Raipur
Welcomes You
to the workshop on
" Adaptive Manufacturing :
3D Printing and Design "
on
April 11-12, 2025 | 11:00 AM Onwards
Venue
Computer Lab, S.o.S in Electronics , PRSU, Raipur

Details of Event

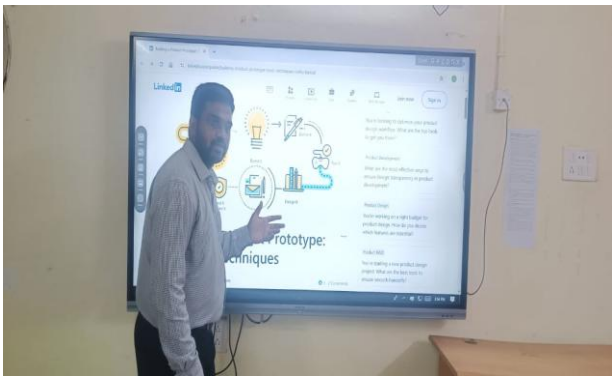
Name of Program Type	Workshop on Prototype/Process Design and Development
Name of Program Theme	Two-day workshop on "Adaptive Manufacturing: 3D Printing and Design"
Objective	Introduce adaptive manufacturing and 3D printing design concepts.
Benefit	Gain practical skills in 3D printing and design tools.
Duration of Activity	8 hours
Mode of Event	Offline
No. of Students Participants	40
No. of Faculty Participants	07
No. of External Participants	NIL
Expenditure Amount	3500

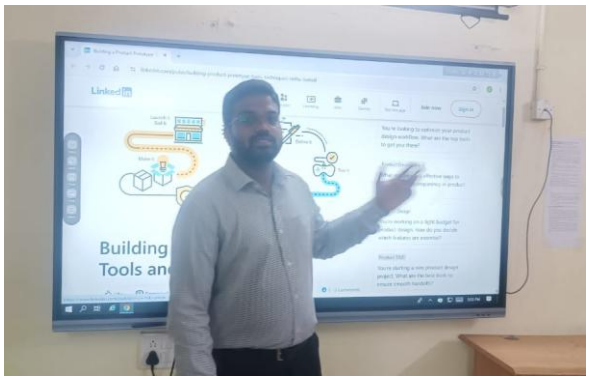
About the Event

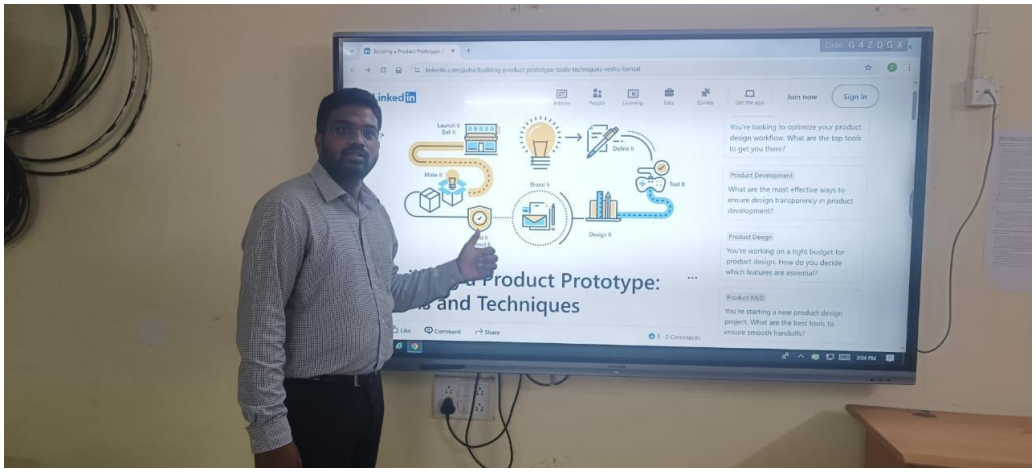
The Institute Innovation Council of Pt. Ravishankar Shukla University, Raipur, in collaboration with the Innovation & Incubation Centre and the School of Studies in Electronics and Photonics, successfully organized a two-day workshop on "Adaptive Manufacturing: 3D Printing and Design" on April 11–12, 2025. The event took place at the Computer Lab, S.O.S in Electronics, PRSU, and commenced at 11:00 AM onwards on both days. This workshop was conducted under the guidance of the MoE's Innovation Cell (Government of India), with the aim of introducing participants to the rapidly evolving world of adaptive manufacturing technologies and their applications in modern industries. The sessions were expertly led by Mr. K. Anil Kumar, an experienced professional in the field of additive manufacturing and design innovation.

He began the workshop by explaining the fundamentals of adaptive manufacturing and how it differs from traditional manufacturing methods. He emphasized the transformative potential of 3D printing, or additive manufacturing, in reducing production costs, enabling complex design possibilities, and promoting sustainable development. Participants were introduced to various 3D printing technologies such as Fused Deposition Modeling (FDM), Stereolithography (SLA), and Selective Laser Sintering (SLS), along with a discussion on the types of materials used in each process. A special focus was given to Design for Additive Manufacturing (DfAM), where he demonstrated how digital design tools and CAD software are used to create printable prototypes.

The workshop included live demonstrations of 3D printing equipment, allowing participants to gain hands-on experience in designing and fabricating simple models. This practical exposure helped in bridging the gap between theoretical understanding and real-world application. He also shared insightful case studies showcasing the use of 3D printing in sectors such as healthcare, aerospace, automotive, and education. The sessions were interactive, with students and faculty actively engaging in discussions, asking questions, and exploring the possibilities of implementing these technologies in their own research or projects.






Product Prototype:
and Techniques

Conclusion

Overall, the workshop provided a comprehensive overview of adaptive manufacturing and successfully ignited interest among students and researchers in exploring this cutting-edge technology. The event concluded with a certificate distribution ceremony, acknowledging the participation of all attendees. The efforts of the organizing team and the expertise of Mr. K. Anil Kumar made the workshop an enriching experience and a significant step toward fostering innovation and technological advancement at Pt. Ravishankar Shukla University.

Dr. Kavita Thakur
President, IIC PRSU