

# INSTITUTE INNOVATION COUNCIL

Pt. Ravishankar Shukla University, Raipur [C.G.] 492010

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## Report-“Three-day Workshop on Design Thinking, Critical Thinking and Innovation Design”

The Institute Innovation Council at Pt. Ravishankar Shukla University, Raipur, in association with S.o.S in Electronics & Photonics and IRETm organized a three-day workshop from January 29th to 31st, 2024, in collaboration with BIT AICTE IDEA Lab, Durg. The workshop focused on various aspects of modern technology, including Additive Manufacturing, Reverse Engineering, and Embedded System Design & Fabrication, as part of the IIC Calendar Activity titled "Workshop on Design Thinking, Critical thinking, and Innovation Design." The primary objective of this workshop was to familiarize participants with the Design Thinking Process, a vital skill for translating ideas into tangible prototypes.

### Day 1 (January 29, 2024):

Dr. Suchitra Pandey provided an overview of design thinking and idea creation. She delved into the implementation process, emphasizing model prototyping using various software platforms like Tina Pro and AutoCAD. In the second half of the day, Dr. Anupam Agrawal discussed ESP32 and Arduino programming, elucidating the workings of IoT (Internet of Things), connections, and programming techniques. A total of 45 students participated in these sessions.

### Day 2 (January 30, 2024):

Dr. Anil provided hands-on experience with 3D printing machines, covering different types of filament materials used in 3D printing. The session was engaging, with students displaying enthusiasm and curiosity. In the latter half, Santosh explained sensors and their functions, detailing the variety available and considerations for selecting appropriate sensors based on specific requirements.

### Day 3 (January 31, 2024):

The final day commenced with a session on circuit design using Tinkercad, along with hands-on Arduino programming, error correction, and precautionary measures during programming. The students actively participated, displaying keen interest in learning. Later, a session on laser printers was conducted, elucidating the types of laser machines and their operations, followed by a hands-on experience with laser printers.

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At the culmination of the workshop, Dr. Pawan Kumar Patnaik, the coordinator of Idealab - BIT, encouraged students to pursue internships and engage in prototype development. He expressed gratitude to Dr. Kavita Thakur and extended a warm invitation to students to join future endeavors.

Overall, the workshop provided valuable insights into modern technologies, fostering innovation and critical thinking among the participants, and encouraging practical application through hands-on experiences and collaborative learning.





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