



**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY**  
WAKNAGHAT, P.O. – WAKNAGHAT,  
TEHSIL – KANDAGHAT, DISTRICT – SOLAN (H.P.)  
PIN – 173234 (INDIA) Phone Number- +91-1792-257999  
(Established by H.P. State Legislature vide Act No. 14 of 2002)



## REPORT OF TWO DAYS HANDS ON WORKSHOP FOR TECHNICAL STAFF ON 3D PRINTING TECHNOLOGY



Institution's Innovation Council (IIC) in collaboration with Technology Incubation and Entrepreneurship Development Cell (TIEDC), and IEEE JUIT SB organized two days of technical staff hands-on workshop on 3D Printing Technology from June 20-21, 2024 in ECL8, Jaypee University of Information Technology, Solan, Himachal Pradesh.

Dr. Vikas Baghel, Department of Electronics and Communication Engineering was the resource person of the workshop. The aim of the workshop is to make staff aware about the concept & importance of 3D printing Technology. The objective of the workshop is to provide the knowledge, which will provide them the opportunity to acquire innovative ideas of 3D Printing Techniques with creativity.



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3D technology is the transformative technology that allows for the creation of three-dimensional objects from digital models. The schedule of the program is as follows :

Date	Time	
20 June 2024 (Thursday)	10:00 AM	<b>Introduction to 3D Printing and Basic Operations</b> <ul style="list-style-type: none"> <li>• History and evolution of 3D printing</li> <li>• 3D printing work flow</li> <li>• Types of 3D printing technologies</li> <li>• Materials used in 3D printing</li> <li>• Applications of 3D printing</li> <li>• Challenges and Limitations of 3D Printing</li> <li>• Components of a 3D printer (Bambu Lab X1E Printer)</li> </ul>
	03:00 PM	<b>AMS: Fundamentals and Functionality</b>



		<ul style="list-style-type: none"> <li>AMS components</li> <li>AMS feeding system introduction</li> <li>Main functions of AMS</li> <li>AMS setup and Filament Loading</li> <li>Safety precautions and best practices</li> </ul>
21 June 2024 (Friday)	10:00 AM	<p><b>Filaments: Types, Properties, and Uses</b></p> <ul style="list-style-type: none"> <li>Supported Filament Types</li> <li>Filament selection properties</li> <li>Filament drying</li> <li>3D Printer temperature settings</li> </ul> <p><b>3D Modeling Basics</b></p> <ul style="list-style-type: none"> <li>Slicing software introduction (Bambu Studio)</li> <li>Basic 3D modeling technique</li> <li>Hands-on session: Creating simple 3D models</li> <li>Hands-on session: Preparing models for printing</li> </ul>
	03:00 PM	<p><b>Advanced Printing Techniques &amp; Projects</b></p> <ul style="list-style-type: none"> <li>Multi-material printing</li> <li>Using supports and rafts effectively</li> <li>Hands-on session: Group projects</li> <li>Creating prototypes</li> <li>Project demonstration</li> <li>Feedback session</li> </ul>



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## Social Media

[https://www.linkedin.com/posts/dr-shruti-jain-92705b130\\_institutions-innovation-council-iic-in-activity-7209831489197260803-5V-3?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/dr-shruti-jain-92705b130_institutions-innovation-council-iic-in-activity-7209831489197260803-5V-3?utm_source=share&utm_medium=member_desktop)

## Newspaper :

<https://himachaltonite.com/himachal/juit-hosts-hands-on-3d-printing-workshop-for-lab-staff/>

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Solan, June 23

The Institution's Innovation Council (IIC), in collaboration with the Technology Incubation and Entrepreneurship Development Cell (TIEDC) and the IEEE JUIT Student Branch, organized a two-day hands-on workshop on 3D Printing Technology. The event took place on June 20-21, 2024, in ECL8 at Jaypee University of Information Technology, Wagnaghat. Dr. Vikas Baghel, Assistant Professor in the Department of Electronics and Communication Engineering, led the workshop as the resource person.

The primary aim of the workshop was to raise awareness among staff about the concept and importance of 3D printing technology. It also aimed to equip participants with the knowledge and skills necessary to generate innovative ideas using 3D printing techniques. By providing hands-on experience, the workshop highlighted how 3D technology can transform the creation of three-dimensional objects from digital models, fostering creativity and innovation among the staff.