Workshop & Hands-On Practice on 3D Printing

A workshop and hands-on training session on 3D printing was successfully conducted, offering participants a balanced mix of theoretical knowledge and practical experience. The session was divided into two major segments, led by experts in the field.

The theoretical session was conducted by **Dr. Partho Mukherjee**, who provided an insightful overview of 3D printing technology. His lecture covered the **fundamental principles of additive manufacturing**, the **types of 3D printing technologies** (such as FDM, SLA, and SLS), and their **basic applications across industries**, including healthcare, aerospace, automotive, and education. He also discussed the **evolution of 3D printing**, materials used, and the future potential of this rapidly growing field. The session was designed to give attendees a foundational understanding and context for the practical training.

The hands-on session was led by **Mr. Darshit Patel**, who guided participants through the **setup, calibration, and operation of a 3D printer**. He demonstrated the full workflow: from designing a model using CAD software to slicing the file and executing a print. Attendees actively participated by printing sample objects, learning troubleshooting techniques, and understanding the significance of parameters like layer height, infill density, and print speed. Mr. Patel also covered maintenance tips and best practices to ensure efficient printer performance.

Overall, the workshop proved to be an enriching experience for all participants, providing a strong theoretical foundation as well as valuable practical skills in 3D printing technology.