

## **SVKM'S NMIMS Mukesh Patel School of Technology Management and Engineering, Shirpur campus**

### **Six-Day AICTE-Approved ATAL Faculty Development Program on “Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0”.**

SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering (MPSTME), Shirpur, concluded a successful six-day AICTE-approved ATAL Faculty Development Program (FDP) titled “Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0”. The program, held from December 9 to 14, 2024, brought together educators, researchers, and postgraduate students from AICTE-approved institutions nationwide to explore the latest advancements in additive manufacturing and 3D printing technologies.

The inaugural ceremony on December 9, 2024, set the tone for the event, with addresses by Dr. Sunita Patil, Director of NMIMS Shirpur Campus, and Dr. Venkatadri Marriboyina, Associate Dean of MPSTME Shirpur. Dr. Patil emphasized the program's alignment with the National Education Policy (NEP) 2020 and its role in equipping educators with the knowledge to integrate advanced technologies into teaching practices.

The FDP curriculum blended theoretical knowledge with practical insights, focusing on topics such as CAD modeling, microfabrication, G-code formation, 3D printer calibration, and Industry 4.0 applications. Participants engaged in interactive sessions, industrial visits, and hands-on training, gaining exposure to cutting-edge techniques in additive manufacturing.

The FDP featured insightful sessions by eminent experts from academia and industry, offering diverse perspectives on additive manufacturing and its applications. Dr. A.M. Kuthe (VNIT Nagpur) highlighted the use of Fused Deposition Modelling (FDM) in medical devices for developing countries, while Dr. Pranav Sapkal (Founder and CEO, LUCID Implants) discussed the journey from medical device innovation to commercialization. Dr. Kiran Bhole (SPCE, Mumbai) and Dr. Vishal Francis (Lovely Professional University) explored the transformative impact and future prospects of 3D printing in healthcare. Dr. Subodh Daronde (Datta Meghe Institute) presented innovative biomedical solutions combining 3D printing with metal casting, and Mr. Piyush Ukey (Cofounder, Director) discussed composite material printing for aerospace applications. Dr. Asha Ingle, former Professor & Head (NMIMS MPSTME Mumbai), delved into advanced microfabrication techniques using lithography. Dr. Rakesh Chaudhari (NMIMS MPSTME) presented on surface enhancement techniques for FDM rapid prototypes, and Dr. Shrikant P. Wadile integrated wellness into the program with his session on stress management and mindfulness meditation while Dr. Dinesh Singh Thakur (Defence Institute of Advance Technology, Pune ) emphasized the applications of additive manufacturing in Industry 4.0.

The program was highly appreciated by participants, who praised the state-of-the-art facilities at MPSTME Shirpur, including advanced 3D printing laboratories. Almost 50 participants from different states has participated in the FDP.

The organizing committee, led by Dr. Rakesh Chaudhari, (FDP Coordinator) and Mr. Rajesh Verma, (FDP Co- Coordinator) played a pivotal role in ensuring the event's success under able leadership of Dr. Venkatadri Marriboyina, Associate Dean, MPSTME Shirpur Campus and guidance of Dr. Sunita Patil, Director, NMIMS Shirpur Campus. The event was well supported by Mr. Rahul Dande, Chief Accountant and Administrator, and Mr. Bhupesh Jaware, Deputy Registrar of NMIMS, Shirpur.

The FDP reflects NMIMS Shirpur's dedication to empowering educators and researchers with advanced skills to thrive in the era of Industry 4.0.



