Final Schedule: Two Week online FDP on Technological Development in Advanced Manufacturing - Challenges, Scope and Applications, Nov. 3-14, 2025							
Date	Day	2:30-3:00 PM	3:00 - 4:00 PM	4:00-5:00 PM	5:00-5:45 PM	5:45 PM-7:00 PM	7:00-8:15 PM
November 3, 2025	Monday	Inaugural Session	L1: Applications of AI in Advanced Manufacturing (Prof. G. L. Samuel, IIT Madras)		Break	L2: Technological Development in Advanced Manufacturing (Dr. Tej Pratap, MNNIT Allahab	L3: Hybrid Manufacturing: Additive Manufacturing (Prof. Puneet Tandon, PDPM IIITDM Jabalpur)
November 4, 2025	Tuesday		L4: Challenges in Abrasive Machining and Surface Integrity Assessment (Prof. Meghanshu Vashista, IIT BHU)		Break	L5: Conventional Micromachining Technology (Dr. Tej Pratap, MNNIT Allahabad)	LAB 1: On-Machine Measurements and Inspection in Micromachining (Dr. Tej Pratap, MNNIT Allahabad)
November 5, 2025	Wednesday		L6: Advanced Joining Techniques in Manufacturing (Dr. Chandrakant Kumar Nirala, IIT Ropar) L7 Modeling and Analysis of Micromilling Process (Prof. Karali Patra, IIT Patna)		Break	LAB 2: Surface Roughness Parameters and its Measurement Techniques (Dr. Ashwani Pratap, IIITDM Kurnool)	
November 6, 2025	Thursday		L8: Effect of Coatings and its Thickno (Dr. Priyabrata Sa		Break	L9: Cryogenic Micromachining of Soft Polymer (Prof. Karali Patra, HT Patna)	L10: Modeling and Simulation of Manufacturing Processes (Dr. Vishwas Divse, Hexagon Manufacturing Intelligence)
November 7, 2025	Friday		LAB 3: Molecular Dynamics (MD) Simulation of Nanocutting (Dr. Ashwani Pratap, HITDM Kurnool)		Break	LAB 4: Advancement in EDM with Hands on Practice of Virtual Instrumentation in EDM Monitoring (Dr. Chandrakant Kumar Nirala, IIT Ropar)	
November 8, 2025	Saturday		LAB 5: Topology Optimization for Additive Manufacturing (Prof. Mukul Shukla, MNNIT Allahabad)	L11: Nano Finishing by Soft Grinding Tool (Dr. Priyabrata Sahoo, IIT Goa)	Break	LAB 6: Hand-on-session on FE Modeling of Laser-Assisted Machining Processes (Dr. Vishwas Divse, Hexagon Manufacturing Intelligence)	
November 9, 2025	Sunday		Holiday				
November 10, 2025	Monday		LAB 7: Image Analysis for Surface Characterization (Dr. Ashwani Pratap, HITDM Kurnool)		Break	L12: Laser Surface Texturing and its Interdiciplin Applications (Dr. Tej Pratap, MNNIT Allahaba	
November 11, 2025	Tuesday		LAB 8: Simulation of Metal Additive Manufacturing (Prof. Mukul Shukla, MNNIT Allahabad)	L14: Condition Monitoring of Micromachining (Prof. Karali Patra, IIT Patna)	Break	L15: Hybrid Manufacturing: Metal Forming Processes (Prof. Puneet Tandon, PDPM IIITDM Jabalpur)	
November 12, 2025	Wednesday		L16: Engineered Surfaces and its Interfaces for Interdisciplinary applications (Dr. Tej Pratap, MNNIT Allahabad)		Break	L17: Laser Manufacturing Processes (Prof. A. K. Dubey, MNNIT Allahabad)	L18: Laser Based Additive Manufacturing (Dr. Ponappa K, PDPM HITDM Jabalpur)
November 13, 2025	Thursday		L19: Advanced Post Processing of Additive Manufactured Complex Surface Features (Prof. Mamilla Ravi Sankar, IIT Tirupati)		Break	Feedback and Suggestions from Participents Online Quiz for the participants (From 7:00 PM) 30 minutes	
November 14, 2025	Friday		L20: Electrochemical Subtractive and Additive Micro-manufacturing Technology (Dr. Diyyansh Patel, HT Bhubaneswar)		Break	Online Certificate Distribution & Valedictory Session (From 6:00 PM)	
			L: Lectures				
			LAB: Hand-on Session				
			Feedback and Suggestions	4			
			Online Quiz (30 min.)				