

SVKM's NMIMS
Mukesh Patel School of
Technology Management &
Engineering, Shirpur
Dist-Dhule, (MH), India.

ATAL BASIC FDP (Six Days)
Faculty Development Program
on

**Exploring the Frontier:
Additive Manufacturing &
3D Printing in Industry 4.0**

(9th -14th December 2024)



About the Institute and Department

SVKM's NMIMS Shirpur is a constituent Campus of NMIMS (Deemed-to-be-University) with A+ NAAC accreditation and Tier 1 UGC recognition, offers industry-oriented programs in Engineering, Pharmacy, Agriculture, and Textile. With AICTE and PCI approvals for its technology and pharmacy schools respectively, the campus emphasizes interdisciplinary education for holistic development of students.

About the Institute

MPSTME Shirpur is a leading engineering institution offering undergraduate programs in engineering and technology management. Known for its advanced infrastructure, research centers and industry collaborations, it emphasizes high-quality technical education of UG and PG students. With a globally-aligned curriculum and a research-driven faculty, MPSTME Shirpur equips students with strong technical skills and critical thinking, preparing them for success in the evolving technical landscape.

MPSTME's Mechanical Engineering section is equipped with state-of-the-art laboratories. It has Bosch Rexroth Centre of Excellence in Automation. It also has full-fledged CAD lab installed with advance design software. It is equipped with AION 500 MK2 3D Multi extruder and two ENDER 3 Max single extruder printers.

Organizing Committee

Chief Patrons

Shri Amrishbhai R. Patel
Chancellor, SVKM's NMIMS and
President, SVKM

Shri Rajgopal Bhandari
Managing Committee Member, SVKM &
Mentor, NMIMS Shirpur Campus

Mrs. Rita Patel
In-charge, NMIMS Shirpur Campus

Patrons

Dr. Ramesh Bhat
Vice Chancellor, SVKM's NMIMS

Dr. Sharad Mhaiskar
Pro Vice Chancellor, SVKM's NMIMS

Conveners

Dr. Sunita Patil
Director, NMIMS, Shirpur Campus

Dr. Venkatadri Marriboyina
Associate Dean, NMIMS, MPSTME, Shirpur

Coordinator

Dr. Rakesh Chaudhari
Associate Professor, NMIMS, MPSTME, Shirpur

Co-Coordinator

Mr. Rajesh Verma
Assistant Professor, NMIMS MPSTME Shirpur

Administration

Mr. Rahul Dande
Chief Accountant and Administrator, NMIMS
Shirpur Campus

Mr. Bhupesh Jaware
Deputy Registrar, NMIMS Shirpur Campus

Objective of the FDP

The FDP on "Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0" empowers educators to integrate advanced 3D printing techniques, like bio-printing and multi-material printing, into their teaching. Covering applications in fields like space exploration, medicine, as well as economic and practical challenges, it aligns with NEP 2020 by promoting cutting-edge, hands-on STEM learning. This program equips faculty to enhance curriculum relevance, fostering creativity and problem-solving for future-ready education.

Who can attend the FDP ?

The Faculty members/Research scholars/PG students from AICTE approved institutions are eligible for this FDP. There is no registration fee to attend this FDP.

How to reach Shirpur

Air: Nearest airports - Indore, Aurangabad (200 km), Mumbai (370 km), Jalgaon (120 km).

Rail: Closest stations - Chalisgaon, Jalgaon, Bhusawal (120 km), Manmad (200 km), Amalner (50 km).

Road: 50 km from Dhule; connected via NH-3.

Registration Procedure

1. Participants must register exclusively through the AICTE-ATAL portal.
<https://atalacademy.aicteindia.org/signup>
2. To begin, click on "Sign Up" and create an account as a "Participant." After creating your login credentials sign in and update your profile.
3. Navigate to the "FDPs" section and search for the program titled "Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0" (Application No: 1716526736). To register, click on the "+" sign next to the FDP title.
4. When filtering the FDPs, ensure you select "All" or "December" in the month filter.
5. Submission of a No Objection Certificate (NOC) is mandatory for registration to the FDP. (NOC template is given below)
6. After successful registration for FDP through the AICT-ATAL portal, the scanned copy of NOC to be sent on rakesh.chaudhari@nmims.edu and rajesh.verma@nmims.edu
7. No Registration Fee: There is no registration fee for any participant attending the program.
8. Refreshments and Meals: Complimentary refreshments and lunch will be provided to all participants throughout the duration of the FDP.
9. Travel Allowance: External participants traveling more than 20 km (one-way) and attending at least 90% of the sessions are eligible for travel allowance (maximum up to Rs. 1600/-).

Last Date of Registration is 1st Dec. 2024

Participant NOC Format

Letter Head

Subject: NOC for Attending ATAL FDP

Ref No.

Date:

To Whomsoever It May Concern

This letter is to express No Objection on Mr./Mrs./Ms./Dr.

_____ in attending FDP on "Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0" conducted at 'SVKM's NMIMS, Mukesh Patel School of Technology Management and Engineering, Shirpur Campus, Dhule from 09th - 14th December, 2024.

This certificate is issued as per requirement of AICTE for successful conduction of ATAL Faculty Development Program.

Yours Sincerely,

(Sign & Stamp)

Hol/Competent Authority

Contact Us











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SVKM's NMIMS Mukesh Patel School of Technology Management & Engineering, Shirpur
 ATAL BASIC FDP (Six Days)

on

Exploring the Frontier: Additive Manufacturing & 3D Printing in Industry 4.0

FDP Schedule

Day 1 9/12/2024	Day 2 10/12/2024	Day 3 11/12/2024	Day 4 12/12/2024	Day 5 13/12/2024	Day 6 14/12/2024
9.00 am to 9.30 am Inauguration					
9:30 am – 12:00 noon Session 1  1. Name of the Expert: Dr. A.M. Kuthe . 2. Designation : Professor 3. Organization: VNIT Nagpur,MH 4. Topic to be taught: Use of Fused Deposition Modelling (FDM) for Medical Application in Developing Countries	9:30 am – 12:00 noon Session 3  1. Name of the Expert: Dr. Pranav Sapkal. 2. Designation : Founder and CEO 3. Organization: LUCID Implants, Nagpur, MH 4. Topic to be taught: Medical device innovation research to commercialization	9:30 am – 12:00 noon Session 5  1. Name of the Expert : Dr. Kiran Bhole 2. Designation : Associate Professor 3. Organization: SPCE, Mumbai, MH 4. Topic to be taught: Design and development of Microstereolithography and bulk lithography for 3D microfabrication	9:30 am – 12:00 noon Session 7  1. Name of the Expert : Dr. Asha Ingle 2. Designation : Former Professor & Head 3. Organization: NMIMS MPSTME Mumbai 4. Topic to be taught: Applications of Additive Manufacturing in Industry 4.0	9:00 am – 1:00 pm Industrial visit	9:30 am – 12:00 noon Session 10  1. Name of the Expert : Dr. Dinesh Singh Thakur 2. Designation : Professor 3. Organization: DIAT, Deemed to be University (DRDO, Ministry of Defense), Pune, MH 4. Topic to be taught: 3D composite material Printing for aerospace applications
12:00 noon – 1:00 pm Article-1 Discussion	12:00 noon – 1:00 pm Article-1 Discussion	12:00 noon – 1:00 pm Article-2 Discussion	12:00 noon – 1:00 pm Article-2 Discussion		12:00 noon – 1:00 pm Article Summary
1:00 pm – 2:00 pm Lunch	1:00 pm – 2:00 pm Lunch	1:00 pm – 2:00 pm Lunch	1:00 pm – 2:00 pm Lunch	1:00 pm – 2:00 pm Lunch	1:00 pm – 2:00 pm Lunch
2:00 pm– 4:30 pm Session 2  1. Name of the Expert : Dr. Sandeep Dahake 2. Designation : CEO & Founder 3. Organization: Precisurg Private Limited, CIVN VNIT Nagpur, MH 4. Topic to be taught: Application of CAD and AM in Medical Sciences	2:00 pm– 4:30 pm Session 4  1. Name of the Expert : Mr. Piyush Ukey 2. Designation : Cofounder, Director. 3. Organization: NU OSSA Mediquip Pvt. Ltd., Nagpur, MH 4. Topic to be taught: 3 D Printing opportunities in healthcare	2:00 pm– 4:30 pm Session 6  1. Name of the Expert : Dr. Vishal Francis 2. Designation : Assistant Professor 3. Organization: Lovely Professional University, Panjab 4. Topic to be taught: Surface enhancement approach for FDM rapid prototypes	2:00 pm– 4:30 pm Session 8  1. Name of the Expert : Dr. Rakesh Chaudhari 2. Designation : Associate Professor 3. Organization: NMIMS MPSTME, Shirpur 4. Topic to be taught: Joining of dissimilar metals by transition grading using metal 3D printing.	2:00 pm– 4:30 pm Session 9  1. Name of the Expert : Dr. Shrikant P. Wadile 2. Designation : Ayurvedic Medical Practitioner and Yoga therapist 3. Topic to be taught: Stress Management & Mindfulness Meditation	2:00 pm– 4:00 pm MCQ & Reflection Journal
4:30 pm– 5:30 pm Hands on training/Labs (Designing of CAD Models)	4:30 pm– 5:30 pm Hands on training/Labs (G Codes formation)	4:30 pm– 5:30 pm Hands on training/Labs (Slicing and data preparation)	4:30 pm– 5:30 pm Hands on training/Labs (Testing & Calibration of 3D Printer)	4:30 pm– 5:30 pm Hands on training/Labs (Post-processing of products)	4:30 pm– 5:30 pm Valedictory Session