

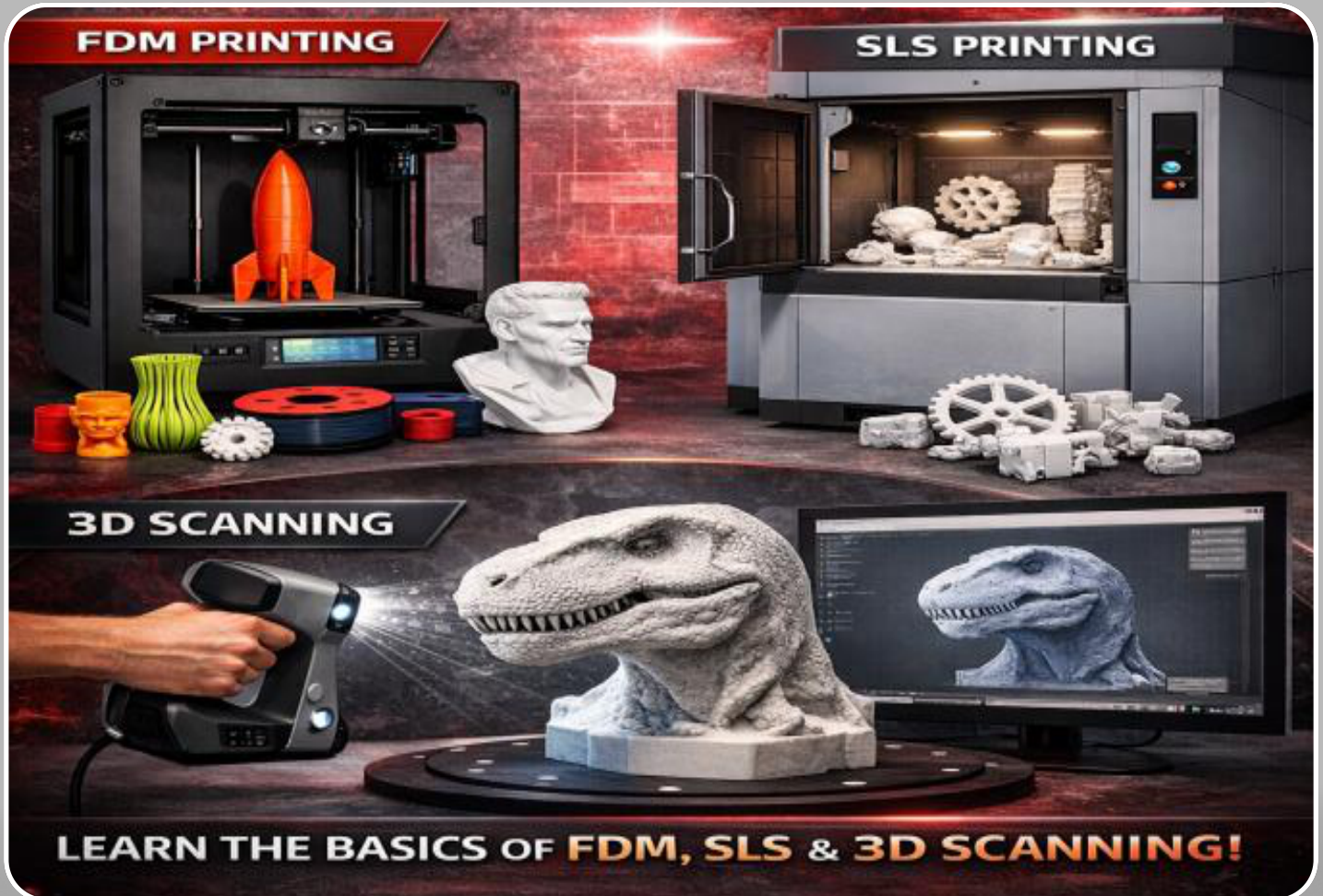


**AICTE IDEA Lab**



# Skilling Program for Students on 3D Printing Technology

23<sup>rd</sup> March 2026 – 28<sup>th</sup> March 2026



**BHUJBAL**  
KNOWLEDGE CITY  
Mumbai Educational Trust

**Institute of  
Engineering**



Adgaon, Nashik-422003 | FOLLOW US   

# OBJECTIVES

- ❑ To introduce students about fundamentals and advancements in 3D printing technology.
- ❑ To provide practical skills in 3D modeling, slicing software, machine operation, and material selection used in additive manufacturing.
- ❑ To align students' skills with NEP 2020 by promoting experiential and technology-driven learning practices.
- ❑ To aware the students about applicability of 3D printing technology across engineering, healthcare, pharmacy, and other fields.

## ABOUT MET'S INSTITUTE OF ENGINEERING

Mumbai Education Trust's 'league of colleges' has contributed over 25,000 professionals to the Indian and Global business houses. In line with its commitment to provide world class education in India, MET created the state-of-the-art Bhujbal Knowledge City (BKC) at Nashik. MET-BKC at Nashik promises to be the answer to the everchanging needs of the business scenario. Situated at Adgaon, in Nashik the campus spans over 34 acres of lush green landscapes with over 4 lakh sq. ft. of campus floor space. The institute offers various under graduate programs in disciplines viz. AI & DS, Civil, Computer, Electronics and Telecommunication, Electrical, IT, Electronics & Computer and Mechanical Engineering. PG Course in ME (CADME), ME (COMP), MCA, Research center for Mechanical and Computer Engineering.



- ❑ MET is an NGO in Special Consultative Status with UN(ECOSOC).
- ❑ Enlightened interaction for urban-rural synergy.
- ❑ NPTEL Local Chapter and IIT- Spoken Tutorial.
- ❑ Exposure to the World Class Organization of activities like MET-Utsav, Conferences, Workshops.
- ❑ NBA Accreditation for five Departments & Accreditation by NAAC.

## ABOUT AICTE IDEA LAB

The MET's Institute of Engineering Bhujbal Knowledge City- AICTE IDEA Lab is a multidisciplinary innovation hub that promotes creativity, problem-solving, and entrepreneurial thinking among students. With a vision to nurture future-ready innovators and leaders, the lab offers a state-of-the-art platform for experimentation, prototyping, and solving real-world industrial challenges. The IDEA Lab houses advanced facilities including Additive Manufacturing, Electronic Product Design, IoT, Mechanical Fabrication, Design Thinking & Ideation, Electrical Systems, CAD with AR/VR & Simulation, and Robotics with AI-ML. By bringing diverse technologies and expert mentorship under one roof, the lab empowers students to transform innovative ideas into functional prototypes and technology-driven startups.

### CHIEF PATRON

**Mr. Pankaj Bhujbal**

Hon. Trustee MET's BKC, Nashik

**Mr. Sameer Bhujbal**

Hon. Trustee MET's BKC, Nashik

**Dr. Shefali Bhujbal**

Chief Administrator MET's BKC, Nashik

### PATRON

**Dr. V. P. Wani** Principal and Chief Mentor AICTE IDEA Lab, MET's BKC IOE, Nashik

### COORDINATOR

**Dr. S. D. Kalpande**

Coordinator AICTE IDEA Lab, MET's BKC IOE, Nashik

**Dr. Dhiraj D. Deshmukh**

Co-Coordinator AICTE IDEA Lab, MET's BKC IOE, Nashik

### CO-COORDINATOR

**Mr. Ashwin D. Patil** Tech Guru Additive Manufacturing, AICTE IDEA Lab, MET's BKC IOE, Nashik

# BASIC CRITERIA FOR NOMINATION

- Number of seats is restricted to 30 only.
- No Registration fee.
- Selection on First Come, First Served basis.
- On completion of the program E-certificate will be issued to participants.
- The students from approved institutions, Research scholars, PG Scholars can apply.

## HOW TO APPLY

**Skilling Program Dates: 23<sup>rd</sup> – 28<sup>th</sup> March 2026**

**AICTE IDEA Lab**

MET's Institute of Engineering, Adgaon, Nashik, 422003 Maharashtra

### REGISTRATION FORM

6 Days Skilling Program for Students on

## 3D Printing Technology

23<sup>rd</sup> – 28<sup>th</sup> March 2026

Name: \_\_\_\_\_

Department and Year: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_

Phone (Mobile): \_\_\_\_\_

Email: \_\_\_\_\_

The given information is true to the best of my knowledge. I agree to abide by the rules and regulations of the program, if selected.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

### No Objection Certificate

Mr./Ms./Dr \_\_\_\_\_ is a bonafide student of our Institution & the Institution has no objection in him/her applying for the skilling program on **3D Printing Technology**. If selected, he / she will be permitted to attend the program from 23 March 2026 - 28 March 2026.

Date: \_\_\_\_\_

Seal

Signature of HOD/Director

The soft copy of the duly filled Registration Form/NOC should be sent to [metaicteidealab\\_joe@bkc.met.edu](mailto:metaicteidealab_joe@bkc.met.edu)

# Schedule of Skilling Program

## Title: 3D Printing Technology

Start Date: 23/03/2026

End Date: 28/03/2026

Target Group: UG Students

Day 1 - 23/03/2026	Day 2 - 24/03/2026	Day 3 - 25/03/2026	Day 4 - 26/03/2026	Day 5 - 27/03/2026	Day 6 - 28/03/2026
<p>10:00 – 10:30 AM Inauguration <b>Welcome Address &amp; Program Overview</b> <b>Dr. V. P. Wani</b> Designation: Principal and Chief Mentor- AICTE IDEA Lab Organization: MET BKC IOE Nasik <b>Topic: Introduction to program objectives and resource persons</b></p>	<p>9:30 – 11:30 AM Session 2 <b>Design &amp; Print Drafting &amp; Modeling</b> <b>Expert: Prof. R. J Pawar</b> Designation: Asst. Prof Organization: MET BKC IOE Nasik Experience: 16 Years <b>Topic: Model design (TinkerCAD/Fusion 360), slicing (Cura)</b></p>	<p>9:30 – 11:30 AM Session 4 <b>SLS Technology</b> <b>Expert: Mr. Pushkar Suryawanshi</b> Designation: Director Organization: 3D Shikshan Experience: 10 Years <b>Topic: Working principle, machine components &amp; materials used in SLS</b></p>	<p>9:30 – 11:30 AM Session 5 <b>Materials Used in 3D Printing</b> <b>Expert: Dr. D. D. Deshmukh</b> Designation: Asso. Prof. Organization: MET BKC IOE Nashik. Experience: 15 Years <b>Topic: Polymers, composites, resins &amp; material selection</b></p>	<p>9:00 – 11:30 AM Session 7 <b>Design Optimization for AM</b> <b>Expert: Mr. V. P. Chaudhari</b> Designation: Asst. Prof. Organization: MET BKC IOE Nasik Experience: 16 Years <b>Topic: Topology process &amp; parameter optimization &amp; lightweight design concepts</b></p>	<p>9:30 – 12:00 PM Session 9 <b>Entrepreneurship &amp; Business Opportunities in 3D Printing</b> <b>Expert: Dr. S. D Kalpande</b> Designation: Coordinator – AICTE Idea Lab and Head of Dept. Organization: MET BKC IOE Nasik Experience: 25 Years <b>Topic: Start-ups, business opportunities &amp; service bureaus</b></p>
<p>10:30 – 12:30 PM Session 1 <b>Introduction to Additive Manufacturing: 3D Printing</b> <b>Expert: Prof. Ashwin D. Patil</b> Designation: Asst. Professor Organization: MET BKC IOE Nashik Experience: 14 Years <b>Topic: Basics, evolution, types (FDM, SLA, SLS) &amp; industrial relevance</b> <b>Mode: Lecture</b></p>	<p>10:30 – 12:30 PM Session 3 <b>Industry Applications of 3D Printing</b> <b>Expert: Mr. Pushkar Suryawanshi</b> Designation: Director Organization: 3D Shikshan Experience: 10 Years <b>Topic: Industrial &amp; Business Applications (Entrepreneurship)</b> <b>Mode: Case Studies</b></p>	<p>10:30 – 12:30 PM Hands-on Session 3 <b>SLS Printer Operation</b> <b>Topic: Model creation, File upload, Resin loading, printing &amp; post-processing</b> <b>Mode: Practical</b></p>	<p>10:30 – 12:30 PM Session 6 <b>3D Scanning Technology</b> <b>Expert: Mr. Abhishek Gujar</b> Designation: Program Coordinator Nasik Region Organization: 3D Shikshan Pune Experience: 5 Years <b>Topic: Basics of 3D scanning, reverse engineering workflow</b> <b>Mode: Demo &amp; hands on</b></p>	<p>10:30 – 12:30 PM Session 8 <b>Post-Processing Techniques</b> <b>Expert: Mr. Abhishek Gujar</b> Designation: Program Coordinator Nasik Region Organization: 3D Shikshan Pune Experience: 5 Years <b>Topic: Surface finishing, curing, support removal &amp; polishing</b> <b>Mode: Demo</b></p>	<p>10:30 – 12:30 PM Session 10 <b>Project Presentation by Participants</b> <b>Topic: Participants present their printed projects</b> <b>Mode: Presentation</b></p>
<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>	<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>	<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>	<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>	<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>	<p>12:30 – 1:30 PM <b>Lunch Break: 12:30 – 1:30 PM</b></p>
<p>1:30 – 3:30 PM Hands-on Session 1 <b>3D Printing Workflow</b> <b>Topic: steps in 3D printing (printer setup &amp; live demo, parts of FDM&amp; SLS Printers)</b> <b>Mode: Practical</b></p>	<p>1:30 – 3:30 PM Hands-on Session 2 <b>FDM Printer Operation</b> <b>Topic: File upload, powder loading, printing &amp; post-processing</b> <b>Mode: Practical</b></p>	<p>1:30 – 3:30 PM Hands-on Session 4 <b>Design &amp; Print Your Project</b> <b>Topic: Participants design their own component &amp; print using FDM/SLS</b> <b>Mode: Practical</b></p>	<p>1:30 – 3:30 PM Hands-on Session 5 <b>Post-Processing Practice</b> <b>Topic: Finishing printed parts &amp; quality inspection</b> <b>Mode: Practical</b></p>	<p>1:30 – 5:30 PM Industrial Visit <b>CDIIL Real Estate – 3D Printed Farmhouse</b> Organization: Nashik Engineering Cluster, MIDC Ambad, Nashik – 422010 <b>Topic: Live observation of 3D construction printing technology</b> <b>Mode: Field Visit</b></p>	<p>1:30 – 3:30 PM MCQ Test &amp; Evaluation <b>Assessment &amp; Reflection</b> <b>Topic: Written MCQ test on all sessions + group reflection &amp; feedback</b> <b>Mode: Interactive</b></p>
<p>03:30 – 4:30 PM <b>Open Discussion &amp; Wrap-up</b> <b>Topic: Recap of Day 1 &amp; preparation for Day 2</b> <b>Mode: Interactive</b></p>	<p>4:00 – 4:30 PM <b>Group Reflection &amp; Q&amp;A</b> <b>Topic: Participant interaction &amp; feedback</b> <b>Mode: Interactive</b></p>	<p>4:30 – 5:00 PM <b>3D Printing MCQ Test</b> <b>Topic: MCQ test on Days 1–3 content</b> <b>Mode: Assessment</b></p>	<p>3:30 – 4:30 PM <b>CAD/CAM MCQ Test</b> <b>Topic: MCQ test on scanning &amp; optimization topics</b> <b>Mode: Assessment</b></p>	<p>3:30 – 4:30 PM <b>Valedictory Session and feedback Certificate Distribution &amp; Closing Ceremony</b> <b>Topic: Certificates awarded; vote of thanks; group photograph</b> <b>Mode: Offline</b></p>	<p>3:30 – 4:30 PM <b>Valedictory Session and feedback Certificate Distribution &amp; Closing Ceremony</b> <b>Topic: Certificates awarded; vote of thanks; group photograph</b> <b>Mode: Offline</b></p>