



AICTE IDEA Lab

MET's Institute of Engineering, Nashik

6-DAYS FACULTY DEVELOPMENT PROGRAM



Internet of Things (IoT) and Electronics Product Design

Learn • Design • Innovate • Transform Ideas into Products



DATES
13 – 18
July 2026



SEATS
Limited to
30 Participants



FEE
FREE
REGISTRATION

FREE

REGISTRATION
LIMITED SEATS



ABOUT THE PROGRAM

The AICTE IDEA Lab presents a six-day Faculty Development Program focused on Internet of Things (IoT), Embedded Systems, PCB Design, Electronics Product Development, and Rapid Prototyping. Participants will gain hands-on experience with Arduino, Raspberry Pi, BeagleBoard platforms, PCB fabrication tools, and real-world product development methodologies.



PROGRAM OBJECTIVES

- ✓ Fundamentals of IoT Technologies
- ✓ Embedded Systems Applications
- ✓ PCB Design using KiCad
- ✓ PCB Milling Machine Operation
- ✓ Product Design and Prototyping
- ✓ Industry-Oriented Case Studies
- ✓ Hands-on Hardware Development
- ✓ NEP 2020 Aligned Experiential Learning



ELIGIBILITY CRITERIA

- ✓ Faculty Members of AICTE Approved Institutions
- ✓ Research Scholars
- ✓ PG Scholars
- ✓ Industry Professionals



PROGRAM HIGHLIGHTS



Hands-on
Training



Arduino &
Raspberry Pi



BeagleBoard
Platforms



PCB Design
& Fabrication



Industry
Applications



Project
Development



Expert
Sessions



Participation
Certificate



DAILY SCHEDULE

DAY 1

IoT Fundamentals

- Introduction to IoT
- Sensors and Actuators
- Arduino Hands-on
- Raspberry Pi Applications



DAY 2

Beagle Platforms

- Latest BeagleBoard Technologies
- SBC Architecture
- Embedded Linux Applications



DAY 3

PCB Development

- KiCad PCB Design
- PCB Layout Design
- Roland MonoFab SRM-20 Demonstration



DAY 4

Advanced Applications

- IoT Case Studies
- Industrial Applications
- Biomedical and Smart Systems



DAY 5

Product Development

- Prototype Development
- Testing and Validation



DAY 6

Project Presentation

- Final Demonstrations
- Expert Evaluation
- Certificate Distribution



LEARNING OUTCOMES

- ✓ Design IoT-based Solutions
- ✓ Develop Electronics Products
- ✓ Create PCB Designs
- ✓ Understand Embedded Systems
- ✓ Improve Problem Solving Skills
- ✓ Build Industry-Oriented Projects



REGISTRATION DETAILS

Available Seats	30 (First Come, First Served)
Selection Basis	First Come First Serve
Certification	E-Certificate on Successful Completion
Registration Email	amitu_ioe@bkc.met.edu

SCAN TO REGISTER

SCAN ME



ORGANIZING TEAM

Chief Mentor
of AICTE Idea Lab

Dr. V. P. Wani
Principal, MET's BKC
IOE, Nashik

Coordinator
of AICTE Idea Lab

Dr. S. D. Kalpande
Prof. & Head (Mech),
MET's BKC IOE, Nashik

Program
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Dr. D. B. Ahire
Assoc. Prof. & HoD (ECE)
MET's BKC IOE, Nashik

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Dr. A. S. Ufade
Assist. Prof. E&TC
MET's BKC IOE, Nashik

Program
Co-Coordinator

Prof. D. S. Suryawanshi
Assist. Prof. AIDS

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CONTACT PERSONS FOR
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