

R&D Collaborations & Engagements

Research Centre: Civil Engineering

1. List of MoU with Industries

MoU for Research : 28

| Sr No. | MOU Partner | Description of MoU | Duration | Type of MOU |
|--------|--|-------------------------------|---------------|-------------------|
| 1 | Pathak Consultant | Research Collaboration | 5 Year | Industrial |
| 2 | CHAC united | Research Collaboration. | 5 Year | Industrial |
| 3 | Dimenssion 5, vastumitra(govind nagar), thete nagar, gangapur road | Research Collaboration | 5 Year | Industrial |
| 4 | Pioneer construction, | Research Collaboration | 5 Year | Industrial |
| 5 | Kimaya Steel, Dindori | Research Collaboration | 5 Year | Industrial |
| 6 | Sathe Builders and Developers | Research Collaboration | 5 Year | Industrial |
| 7 | ABL Infra , Nashik | Research Collaboration. | 5 Year | Industrial |
| 8 | DK Design and Consultancy | Research Collaboration | 5 Year | Industrial |
| 9 | Hembade Builders and Developers | Research Collaboration | 5 Year | Industrial |
| 10 | Civil Tech Testing Lab | Research Collaboration | 5 Year | Industrial |
| 11 | Vinit Construction | Research Collaboration | 5 Year | Industrial |
| 12 | Shritej Construction | Research Collaboration. | 5 Year | Industrial |
| 13 | J J MEP Consultant | Research Collaboration | 5 Year | Industrial |
| 14 | i-Valuers Advisory LLP | Research Collaboration | 5 Year | Industrial |
| 15 | MM Precise Construction | Research Collaboration | 5 Year | Industrial |
| 16 | SteelDlink Nashik | Research Collaboration | 5 Year | Industrial |
| 17 | Infinite graphix Technologies Pvt. Ltd | Research Collaboration. | 5 Year | Industrial |
| 18 | Ellora Engineering Procurement Construction (EPC) Pvt Ltd | Research Collaboration | 5 Year | Industrial |
| 19 | AjinkyaTara Consultant | Research Collaboration | 5 Year | Industrial |
| 20 | Prothoius Nashik | Research Collaboration | 5 Year | Industrial |
| 21 | Geocon Constultant | Research Collaboration | 5 Year | Industrial |
| 22 | Soil glob Engg pvt ltd. | Research Collaboration. | 5 Year | Industrial |
| 23 | Centrix Engineering Solution Pvt. Ltd. | Research Collaboration | 5 Year | Industrial |
| 24 | Hire and Jagtap Constructions | Research Collaboration | 5 Year | Industrial |
| 25 | Aditya Associates Engineers and Contractors | Research Collaboration | 5 Year | Industrial |
| 26 | Aashwatth Growth Private Limited: Flat no. | Research Collaboration | 5 Year | Industrial |
| 27 | Aarohi Associates | Research Collaboration. | 5 Year | Industrial |
| 28 | Suyash Construwell Private Limited | Research Collaboration | 5 Year | Industrial |

2. Industry Support Laboratories

The laboratory developed is 3D Printing Technology in collaboration with 3D Printing ANET 3D Printer.

3D Printing Laboratory by ANET 3D Printer:-

- Idea Technology LLP is a service provider and supplier of highly affordable 3D Printers, Hand Held 3D Scanners, 3D Pens, Printing Materials, 3D Printing Curriculum & 3D printing Services across India.
1. To provide 3D printing training to University students to enhance skill sets as per Industry requirement. i.e. to provide platform for construction of a three-dimensional object from a CAD model or a digital 3D Model with material being added together typically layer by layer.
 2. Highlight points of training are mentioned below:
 - 3D printing slicers software
 - 3D printer components, identification, usage
 - Machine Operating
 - Usage of 3D printing services
 - Live Demo of 3D printers

- **Research Centre: Computer Engineering**

List of MoUs

| | MOU Partner | Description of MoU | Duration | Date | Type of MOU |
|---|---|------------------------|----------|------------|-------------|
| 1 | MET's Institute of Engineering, Nashik | Research Collaboration | 5 Year | 01/08/2021 | Academic |
| 2 | KK Wagh Institute of Engineering Education and Research | Research Collaboration | 7 years | 01/08/2016 | Academic |

Research Centre: Electronics & Telecommunications

1. List of MoUs with Industries

MoU for Research/ Apprenticeship Collaboration : 38

| MOU Partner | Description of MoU | Duration | Date | Type of MOU |
|---|---------------------------|----------|------------|-------------|
| 1. E-Cube Home Solutions, Shanti nagar Vakil Wadi, Ashok Stumbh Nashik 422001 | Research Collaboration | 5 Year | 01/01/2022 | Industrial |
| 2. Calibers Infotech Pvt. Ltd. , Second Floor, Prakash Apartment, Near ABB Circle mahatma Naggar, Nashik-422007 | Research Collaboration | 5 Year | 01/08/2022 | Industrial |
| 3. Yashaswi Electronics, Shop No. 06, Trimbakeshwar Apartment Raikar nagar, Pune 411041 | Research Collaboration | 5 Year | 24/08/2022 | Industrial |
| 4. ESDS Software Solutions, Limited Plot No. B-24&25, NICE Industrial Area, Satpur MIDC, Nashik 422007 | Research Collaboration | 3 Year | 21/09/2022 | Industrial |
| 5. Apuriweb Technologies, Nashik Maharashtra-422002 | Research Collaboration | 2 Year | 01/07/2024 | Industrial |
| 6. Ascesion Innovation Pvt. Ltd., Gla nO. 29, Akanksha 2, NICE Industrial Area, Satpur MIDC, Nashik 422007 | Research Collaboration | 2 Year | 15/7/2024 | Industrial |
| 7. Sivananda Electronics, Dipak Mahal, Lam road, Devlali, Nashik Maharashtra 422401 | Research Collaboration | 2 Year | 16/08/2024 | Industrial |
| 8. Webfries IT Soutions Private Limited, Gurgaon Haaryana | Research Collaboration | 3 Year | 19/09/2024 | Industrial |

2. Industry Support Laboratories

The Department of Electronics and Telecommunication Engineering has signed MoUs with different industries with the objective of bridging the gap between industry and academics by providing advanced technical training to faculty members and students. The industries have also supported the institute by developing specialized laboratories on campus to enhance practical exposure and industry-oriented learning.

The laboratories developed in collaboration with various industries are as follows:

1) Embedded Development Kits Laboratory by Yashaswi Electronics, Pune

a) Type of Industry

- Yashaswi Electronics, Pune is engaged in the manufacturing of embedded systems, digital trainers, microwave benches, DSP kits, microprocessor kits, and microcontroller-based development systems.

- The company provides innovative educational and industrial training solutions in the field of embedded systems and electronics engineering.
 - It supports engineering institutes by supplying advanced development kits and training modules for hands-on learning in embedded technologies.
- b) Type of Laboratory
- To provide practical training to students in embedded systems and microcontroller-based applications as per industry requirements.
 - To provide a platform for designing, programming, interfacing, and testing embedded hardware and software systems.
 - Highlight points of training are mentioned below:
 - Embedded C programming
 - Microcontroller interfacing techniques
 - Sensor and actuator interfacing
 - Digital trainer kit operation
 - Development and testing of embedded system projects
 - Real-time hardware implementation
- c) Objective & Utilization
- Used to build and test projects based on embedded systems.
 - Used for conducting practical sessions related to microprocessors, microcontrollers, and embedded systems.
 - Supports mini-projects and final-year projects.
 - Utilized by TE and BE classes.

2) VLSI Design and Development Laboratory by CYPRESS Semi Tech. Ltd.

- a) Type of Industry
- CYPRESS Semi Tech. Ltd. provides high-quality, value-driven embedded and VLSI solutions with world-class technical support.
 - The company works in the field of semiconductor technology, embedded solutions, and VLSI system design.
 - It focuses on advanced chip design technologies and electronic system development.
- b) Type of Laboratory
- To provide hands-on training in VLSI design, simulation, and implementation techniques.
 - To provide students with exposure to modern semiconductor design tools and methodologies used in industries.
 - Highlight points of training are mentioned below:
 - VLSI circuit design
 - FPGA and ASIC concepts
 - HDL programming using Verilog/VHDL
 - Simulation and verification techniques
 - Analog and digital IC design
 - Communication circuit implementation
- c) Objective & Utilization
- Allows students to design and implement VLSI circuits.
 - Used for VLSI and Communication practical sessions.
 - Used to build and test VLSI and analog circuit-based projects.
 - Supports research activities and project development.
 - Utilized by TE and BE classes.

3) Analog Circuit Development Laboratory by Texas Instruments

a) Type of Industry

- Texas Instruments is a globally recognized semiconductor manufacturing company that designs and manufactures analog integrated circuits and embedded processors.
- The company serves customers worldwide in industrial, automotive, communication, and consumer electronics sectors.
- Texas Instruments provides innovative solutions for analog circuit design and embedded applications.

b) Type of Laboratory

- To provide practical exposure in designing and testing analog electronic circuits using modern components and development tools.
- To enhance students' understanding of analog electronics and real-time circuit implementation techniques.
- Highlight points of training are mentioned below:
 - Analog circuit design and analysis
 - Operational amplifier applications
 - Signal conditioning circuits
 - PCB designing and testing
 - Measurement and troubleshooting techniques
 - Mini-project and prototype development

c) Objective & Utilization

- Allows students to design and implement various analog circuits.
- Used for mini-projects and final-year projects.
- Used for practical sessions in analog electronics and communication subjects.
- Enhances industry-oriented practical knowledge among students.

Research Centre: Electrical Engineering

1. List of MoU with Industries

MoU for Research : 08

| | MOU Partner | Description of MoU | Duration | Date | Type of MOU |
|---|--|-------------------------|----------|------------|-------------|
| 1 | Simpower Technology Nashik | Research Collaboration | 5 Year | 22/01/2026 | Industrial |
| 2 | Autotech Nashik | Research Collaboration. | 5 Year | 02/02/2026 | Industrial |
| 3 | Slidewell Milluer Pvt Ltd Nashik | Research Collaboration | 5 Year | 23/03/2026 | Industrial |
| 4 | JJ MEP Pvt Ltd Nashik | Research Collaboration | 5 Year | 22/12/2025 | Industrial |
| 5 | MAHADISCOM Training Centre Eklahare Nashik | Research Collaboration | 5 Year | 29/01/2026 | Industrial |
| 6 | Salunke Automation Pvt Ltd | Research Collaboration | 5 Year | 20/03/2026 | Industrial |
| 7 | Wattson Pvt Ltd Nashik | Research Collaboration | 5 Year | 20/03/2026 | Industrial |
| 8 | Nashik Transformer Pvt Ltd | Research Collaboration | 5 Year | 22/01/2026 | Industrial |

2. Industry Support Laboratories

- **Industry Collaboration Report: Autotech Pvt Ltd Nashik**
- **About the Industry:**

Autotech Nashik is an industry-oriented organization specializing in electrical automation and control systems. It focuses on providing practical training and project exposure in PLC and SCADA technologies. The company bridges the gap between academic learning and industrial requirements by offering hands-on experience with real-time systems. It operates with a vision to develop skilled engineers ready for automation industries.
- **Services Offered by the Industry:**

Autotech Nashik provides training programs on PLC, SCADA, HMI, and industrial automation systems. It also undertakes industry-based projects, consultancy services, and technical workshops for students and professionals. The organization offers real-time simulation, panel design practices, and troubleshooting sessions, helping learners understand industrial applications. Additionally, it supports customized training modules as per industry demands.
- **Benefits to Students:**

Students gain practical exposure to automation tools and technologies widely used in industries. The collaboration enhances their technical skills, problem-solving abilities, and employability in core sectors. It also provides opportunities for live projects, internships, and industry interaction, improving confidence and job readiness. Overall, students become better prepared for careers in automation, manufacturing, and process industries.
- **Equipments:**
 1. Trainer Kit for PLC basics
 2. Working kit for Sensors I/O
 3. Software ZeloSoft for interfacing

Research Centre: Mechanical Engineering

1. List of MoU with Industries

MoU for Research : 05

| | MOU Partner | Description of MoU | Duration | Date | Type of MOU |
|---|---|------------------------|----------|------------|-------------|
| 1 | MET's Institute of Engineering, Nashik | Research Collaboration | 5 Year | 01/08/2021 | Academic |
| 2 | InvensysCAD Solutions, Nashik. | Research Collaboration | 5 Year | 08/01/2022 | Industrial |
| 3 | SNJB's Late Sau KBJ College of Engineering, Chandwad. | Research Collaboration | 5 Year | 05/05/2022 | Academic |
| 4 | FALCON Automation | Research Collaboration | 3 Year | 05/06/2023 | Industrial |
| 5 | Satish Injectoplast Pvt. Ltd., Nashik. | Research Collaboration | 1 Year | 01/08/2024 | Industrial |

2. Industry Support Laboratories

3D Printing Laboratory by Shenzhen Technology Co. Limited, China:-

The laboratory developed is 3D Printing Technology in collaboration with 3D Printing ANET 3D Printer.

- Idea Technology LLP is a service provider and supplier of highly affordable 3D Printers, Hand Held 3D Scanners, 3D Pens, Printing Materials, 3D Printing Curriculum & 3D printing Services across India.
- To provide 3D printing training to University students to enhance skill sets as per Industry requirement. i.e.to provide platform for construction of a three-dimensional object from a CAD model or a digital 3D Model with material being added together typically layer by layer.
- Highlight points of training are mentioned below:
 - 3D printing slicers software
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 - Usage of 3D printing services
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