



Vidya Pratishthan's
Centre of Excellence in Digital Manufacturing & Robotic Automation

Monthly Report March -2026

The following activities are conducted/ongoing in the month of March-2026 at CoEDMRA.

Sr.	Date	Activity	Remark
1	March month	Revenue generated through selling of students project kits/ gift items etc	Rs. 727,615/- collected till the month of March.
2	9/3/2026	Visit Report- Dr.K. Suresh (Protaccine, switzerland)	A separate report is attached.
3	10/3/2026	Visit Report- Parent Teacher Association	A separate report is attached.
4	10/3/2026	Visit Report-Babasaheb Phadtare Polytechnic,Kalamb	A separate report is attached.
5	13/3/2026	Visit Report- JSPM Faculty Team	A separate report is attached.
6	20/3/2026	Visit Report - K. K. Wagh Institute of Engineering Education And Research ,Nashik.	A separate report is attached.
7	21/3/2026	Visit Report- PGP Sir	A separate report is attached.
8	27/3/2026	Visit Report-Dr. B. S. Rathod,Maharashtra state skills university Pune .	A separate report is attached.
9	28/3/2026	Visit Report-JSPM Hadapsar,Pune	A separate report is attached.
10	28/3/2026	CNC Training Program Report	A separate report is attached.
11	28/3/2026	Report-Internship in Industrial Automation	A separate report is attached.

Mrs. P. D. Kale,
Head, VP's CoEDMRA

Dr. M. S. Lande
Head of Department

Principal, VPKBIET, Baramati



Vidya Pratishthan's
Centre of Excellence in Digital Manufacturing & Robotic Automation
Visit Report

Date of Visit: 9 February 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

Visitor Details

- **Dr. K. Suresh** – Protaccine, Switzerland
- **Dr. Minakshi Suresh** – Hadapsar, Pune (**Fergusson College**, Pune)

Purpose of Visit

The purpose of the visit was to explore the facilities and advanced technologies available at COEDMRA related to digital manufacturing, robotics, and automation. The visitors were interested in understanding how these technologies are used for training, research, and industrial applications.

Details of Visit

During the visit, the guests were given a tour of the COEDMRA laboratories. They observed different automation setups including industrial robots, PLC-based automation systems, and digital manufacturing tools. Demonstrations of robotic operations and automation processes were provided to explain how these systems are used in modern industries and technical education.

Outcome

The visitors appreciated the advanced infrastructure and practical learning environment at COEDMRA. They discussed possible opportunities for academic collaboration, research activities, and knowledge exchange in the fields of robotics and automation.

Conclusion

The visit was successful and informative. It helped the visitors gain insight into the latest developments in digital manufacturing and automation technologies. Such visits strengthen collaboration between academia, research institutions, and industry and promote innovation in technical education.

Photos



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Visit Report

Date of Visit: 10 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

Visitor Group: Parent Teacher Association (PTA)

Total Visitors: 30

2. Purpose of Visit

The purpose of the visit was to introduce the Parent Teacher Association members to the advanced facilities available at COEDMRA. The visit aimed to provide an understanding of modern technologies such as digital manufacturing, robotics, automation systems, and their role in technical education and industry. It also helped the visitors understand how students are trained using these technologies for skill development and future career opportunities.

3. Details of Visit

During the visit, the visitors were given an overview of the laboratories and equipment available at COEDMRA. Demonstrations of robotic systems, automation setups, and digital manufacturing tools were conducted. The visitors observed practical activities related to robotics operation, industrial automation, and smart manufacturing concepts. The faculty members explained how these technologies are used for student training, research activities, and industry collaboration.

4. Outcomes

- Visitors gained knowledge about modern technologies used in robotics and automation.
- The PTA members understood the importance of practical learning in technical education.
- The visit helped strengthen the connection between the institution and parents regarding students' skill development.

5. Conclusion

The visit was informative and successful. The Parent Teacher Association members appreciated the facilities and learning environment at COEDMRA. The visit helped create awareness about advanced technologies and their importance in preparing students for future industrial requirements.

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Visit Report

Date of Visit: 10 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

Institute: Babasaheb Phadtare Polytechnic, Kalamb

Department & Class: SY (Computer)

Number of Students: 35

Number of Staff: 2

2. Purpose of Visit

The purpose of the visit was to provide students with practical exposure to modern technologies used in digital manufacturing, robotics, and industrial automation.

3. Details of Visit

During the visit, students were introduced to advanced industrial automation technologies available at COEDMRA. The session included demonstrations of industrial robots, digital manufacturing concepts, and automation systems used in modern industries. Students observed practical applications of robotics, PLC-based automation, and robotic simulation software. Experts at the center explained the working principles and real-world industrial uses of these technologies.

4. Outcomes

- Students gained practical knowledge of robotics and automation technologies.
- They understood the role of digital manufacturing in modern industries.
- The visit enhanced students' interest in industrial automation and robotics.

5. Conclusion

The industrial visit was highly informative and beneficial for the students. It helped bridge the gap between theoretical knowledge and practical industrial applications in the field of robotics and automation.

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Visit Report

Date of Visit: 13 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

Visitor Group: JSPM College of Engineering, Pune

Total Visitors: 18 Faculty Members (Principal of Diploma, HODs, and Professors)

2. Purpose of Visit

The purpose of the visit was to explore the facilities and advanced technologies available at the Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA). The visiting faculty members aimed to understand the practical implementation of Industry 4.0 technologies and their applications in education, research, and skill development. The visit also focused on learning about robotics, PLC automation, digital manufacturing systems, and training opportunities for students.

3. Details of Visit

During the visit, the faculty members were given a detailed tour of the COEDMRA laboratory. The demonstration included various advanced technologies such as industrial robots, PLC-based automation systems, and digital manufacturing setups. The visitors were introduced to different robotic applications such as pick-and-place operations, simulation using robotics software, and automated manufacturing processes.

4. Outcomes

- The visiting faculty gained practical insights into robotics, automation, and digital manufacturing technologies.
- Opportunities for collaboration in training, workshops, and student skill development were discussed.

5. Conclusion

The visit was informative and beneficial for the faculty members from JSPM College of Engineering, Pune. It provided them with valuable exposure to advanced automation and robotics technologies. The interaction encouraged knowledge sharing and opened possibilities for future collaboration in technical training, research activities, and student development programs.

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Date of Visit: 20 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

- Visitor Group: K.K. Wagh Institute of Engineering Education and Research, Nashik
- Total Visitors: 4 Faculty Members
- Faculty Members:
 1. Dr. V. M. Shewlikar (Coordinator)
 2. Dr. Preeti Bhamre and Team

2. Purpose of Visit

The purpose of the visit was to explore advanced facilities and technologies in the field of digital manufacturing, robotics, and industrial automation. The visit aimed to understand the practical implementation of modern automation systems and identify opportunities for academic collaboration.

3. Visit Overview

The faculty members were introduced to various sections of COEDMRA, including the Simulation Lab, Mechatronics Section, Robotics Section, and Advanced Manufacturing Section. Demonstrations were provided on industrial automation systems such as PLC (Siemens 1500), SCADA, and HMI. The visitors also observed robotic applications including pick-and-place operations using SCARA and 6-axis articulated robots.

4. Outcome

- Gained insights into advanced automation and robotic technologies
- Understood practical applications of PLC, SCADA, and HMI systems
- Explored possibilities for implementing similar lab setups
- Identified scope for future collaboration in training and research

5. Conclusion

The visit was informative and productive. It provided valuable exposure to modern industrial practices and helped the faculty members understand the integration of automation and robotics in engineering education. The visit also opened avenues for future academic and technical collaboration.

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Visit Report

Date of Visit: 21 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

- Mr. Prataprao Govindrao Pawar (Trustee, Vidya Pratishthan)
- Mr. Ajit Gate (Industry Representative, Digitech Robotics India Pvt. Ltd.)

2. Purpose of Visit

The purpose of the visit was to explore the facilities at COEDMRA and discuss potential collaboration opportunities in the field of robotics and industrial automation.

3. Visit Overview

The visitors were given an overview of the various sections of COEDMRA, including Simulation, Mechatronics, Robotics, and Advanced Manufacturing. Demonstrations of robotic systems, PLC-based automation, and industrial applications were presented.

Discussions were held regarding enhancing collaboration between academia and industry, with a focus on improving flexibility and integration in robotic systems.

4. Outcome

- Strengthened industry-institute interaction
- Identified opportunities for collaboration in robotics and automation
- Discussed the concept of reducing interlocks in robotic systems to improve operational flexibility and efficiency

5. Conclusion

The visit was productive and insightful. It helped in establishing a strong foundation for future collaboration and provided valuable guidance on advancing robotics infrastructure and implementation strategies.

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Visit Report

Date of Visit: 27 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

- **Dr. B. S. Rathod**, HOD Mechatronics, Maharashtra State Skills University, Pune
- **Dr. M. G. Ghogare**, RTMSSU, Pune

2. Visit Overview

The visitors were given an overview of the Centre of Excellence and its key facilities. The visit focused on showcasing advanced technologies and practical setups in the areas of automation, robotics, and manufacturing.

3. Sections Covered

Automation Section:

Demonstrations of PLC (Siemens 1500), SCADA, and HMI-based systems were provided, highlighting industrial automation applications.

Robotics Section:

The visitors explored robotic systems including SCARA robots and 6-axis articulated robots. Live demonstrations of pick-and-place operations and robot programming were conducted.

Smart Factory:

An overview of smart manufacturing concepts and Industry 4.0 integration was presented.

Advanced Manufacturing:

The section included demonstrations of modern manufacturing technologies such as 3D printing, CNC, and VMC machines.

4. Conclusion

The visit was insightful and informative. It provided a clear understanding of advanced technologies in automation, robotics, and manufacturing. The interaction helped in sharing knowledge and exploring future opportunities for collaboration in skill development and technical education.

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Visit Report

Date of Visit: 28 March 2026

Place of Visit: Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

1. Visitor Details

- **Visitor Group:** JSPM College of Engineering, Pune
- **Department:** Electrical Engineering
- **Total Visitors:** 51 Students (28 Boys and 23 Girls)
- **Faculty Members:** 4

2. Purpose of Visit

The purpose of the visit was to provide students with practical exposure to modern industrial technologies in the field of digital manufacturing, robotics, and automation. The visit aimed to bridge the gap between theoretical knowledge and real-world industrial applications.

3. Visit Overview

The students were introduced to various sections of COEDMRA, including:

- Simulation Lab (software like RoboDK, Automation Studio, Mastercam)
- Mechatronics Section
- Robotics Section (SCARA and 6-axis articulated robots)
- Advanced Manufacturing Section

4. Learning Outcomes

- Understanding of industrial automation systems
- Exposure to PLC, SCADA, and HMI technologies
- Knowledge of robotic programming and operations
- Awareness of advanced manufacturing techniques

5. Conclusion

The visit was highly informative and beneficial for the students. It enhanced their technical knowledge and gave them insight into real-world industrial practices in automation and robotics. The session was interactive and helped students better understand modern engineering applications.

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CNC VMC Training Program Report

Place of Training:Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)

Training Duration:2 February 2026 to 28 March 2026

Total Trainees:4

1. Introduction

The CNC VMC Training Program was conducted at COEDMRA with the objective of providing hands-on knowledge and practical skills in CNC machining and Vertical Machining Center (VMC) operations. The program focused on bridging the gap between theoretical concepts and industrial practices.

2. Training Structure

The training program was designed in a structured manner, starting with basic concepts and gradually progressing to advanced machining operations. It included:

- Classroom sessions for theoretical understanding
- Software-based training for CNC programming
- Hands-on practice on CNC/VMC machines
- Continuous guidance and supervision by trainers

3. Topics Covered

- Introduction to CNC and VMC machines
- Basics of machining and cutting tools
- CNC programming (G-codes and M-codes)
- Tool selection and offset setting
- Workpiece setting and alignment
- CAD/CAM basics (Mastercam)
- Safety procedures in CNC machining

4. Practical Exposure

Trainees were provided extensive hands-on practice on CNC and VMC machines. They performed operations such as:

- Job setting and tool setup
- Program execution and troubleshooting

- Machining of basic components
- Use of simulation software before actual machining

This practical exposure helped in developing confidence and technical skills among trainees.

5. Evaluation

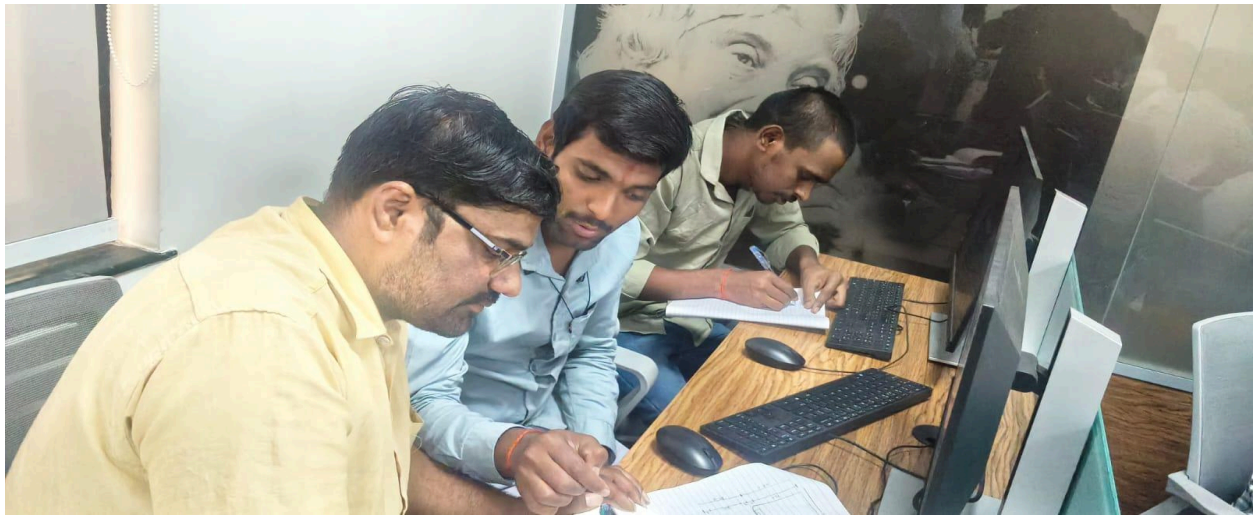
The trainees were evaluated based on:

- Practical performance on machines
- Understanding of CNC programming
- Execution of assigned machining tasks
- Overall participation and discipline during training

6. Conclusion

The CNC VMC training program was successfully completed and proved to be highly beneficial for the trainees. It enhanced their technical knowledge, practical skills, and understanding of real-world machining processes. The training prepared them for industrial applications and future career opportunities in manufacturing and automation sectors.

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INTERNSHIP IN INDUSTRIAL AUTOMATION PROGRAM REPORT

1. Training Details

- **Place of Training:**
Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA)
- **Training Duration:**
15 February 2026 to 25 March 2026
- **Total Trainees:**
24

2. Introduction

The Industrial Automation Internship Program was conducted at the Centre of Excellence in Digital Manufacturing, Robotics, and Automation (COEDMRA). The primary objective of this program was to provide students with comprehensive knowledge and practical exposure to modern industrial automation technologies.

The program was designed to bridge the gap between theoretical learning and real-world industrial applications. It aimed to develop technical competencies in automation systems, robotics, and smart manufacturing.

3. Training Structure

The training program was structured in a systematic manner, combining theoretical concepts with practical implementation. Each session included detailed explanations followed by hands-on practice to ensure better understanding.

The program included:

- Classroom sessions for fundamental concepts
- Practical sessions on industrial software and hardware
- Demonstrations of real-time automation systems
- Task-based assignments and mini projects

4. Topics Covered

During the internship, the following topics were covered:

- Programmable Logic Controller (PLC)
- Supervisory Control and Data Acquisition (SCADA)
- Industrial Internet of Things (IIoT)
- Human Machine Interface (HMI)

- SCARA Robot
- 6-Axis Articulated Robot (Programming and Manual Operation)

5. Practical Exposure

The trainees were provided extensive hands-on experience using industry-relevant tools and software, including:

- **TIA Portal** for Siemens PLC 1500 programming
- **PI Studio** for IIoT and HMI development
- **InTouch SCADA** for monitoring and control systems
- **RT Toolbox** for robot programming and simulation

Students performed various practical tasks such as motor control, tank level automation, SCADA interfacing, and robotic pick-and-place operations.

6. Evaluation

The evaluation of trainees was carried out based on their overall performance throughout the internship. The assessment criteria included:

- Participation in practical sessions
- Completion of assigned tasks and mini projects
- Understanding of concepts and implementation skills
- Final practical examination

Based on these parameters, individual performance grades were assigned to all trainees.

7. Outcome

- Enhanced understanding of industrial automation systems
- Practical knowledge of PLC, SCADA, IIoT, and HMI
- Hands-on experience in robot programming and operations
- Improved problem-solving and technical skills
- Industry-oriented learning experience

8. Conclusion

The Industrial Automation Internship Program was successfully completed and achieved its intended objectives. It provided valuable exposure to real-time industrial systems and advanced technologies.

The program significantly contributed to improving the technical skills and confidence of the trainees. It also prepared them to meet current industry requirements in the field of automation and robotics.

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