

# A Seminar on

# Revolution of the construction industry through Artificial Intelligence (AI)

## Dr. P A Shirule

# **Civil Engg**

### **Activity Report**

	2024.25
Academic Year	2024-25
Program Driven by	
Quarter	III
Program / Activity Name	Capacity Building Program
Program Type	
Program Theme	Innovation and startups
Start Date	29-03-2025
End Date	29-03-2025
Duration of the Activity (in Mins)	60
Number of Student Participant	0
Number of Faculty Participant	70
Number of external Participant	
Expenditure Amount in Rs.	
Any Remark	
Mode of Session Delivery	Offline
Objective	
Benefit in terms of Learning / Skills /	
Knowledge obtained	
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
U VI O	
Overall report of the Activity (pdf)	As given below









Dr. P. H. Zope Convener IIC

Title:

Revolution of the Construction Industry through Artificial Intelligence (AI)

Speaker:

Dr. P. A. Shirule

Date:

[29-03-25]

Venue:

[SSBT COET Bambhori]

#### 1. Introduction

A highly informative seminar titled "Revolution of the Construction Industry through Artificial Intelligence (AI)" was conducted by Dr. P. A. Shirule, an expert in the field of AI applications in construction. The seminar explored how AI is transforming the construction industry by enhancing productivity, improving safety standards, and driving innovation in building design, project management, and construction processes. The session was attended by engineers, construction professionals, researchers, and students interested in understanding the impact of AI on the future of the construction sector.

#### 2. Objectives of the Seminar

- To explore the role of Artificial Intelligence in revolutionizing the construction industry.
- To understand how AI technologies improve project planning, design, and execution.





- To discuss the integration of AI in automation, safety, and sustainability in construction.
- To identify the challenges and future trends in AI adoption within the construction industry.

#### 3. Key Highlights of the Seminar

#### a. Overview of AI in the Construction Industry

Dr. Shirule began by outlining the rapid advancements in AI and its growing influence across various industries. In the construction industry, AI is reshaping the way projects are designed, managed, and executed. From **predictive analytics** to **robotics** and **smart buildings**, AI has the potential to optimize every stage of the construction lifecycle.

#### b. Applications of AI in Construction

Dr. Shirule highlighted several key applications of AI in construction:

#### • AI in Project Planning and Design:

AI is transforming the design phase with tools like **Generative Design**, which uses algorithms to generate optimized building designs based on specific constraints (e.g., budget, space, materials). AI-powered **Building Information Modeling (BIM)** tools allow for better collaboration among architects, engineers, and contractors, improving design accuracy and efficiency.

#### • AI in Construction Project Management:

AI-driven software systems are being used to predict project timelines, estimate costs, and manage resources. **Machine learning algorithms** analyze historical project data to identify patterns, enabling construction managers to make more accurate forecasts regarding project delays, budget overruns, and resource allocation.

#### AI in Automation and Robotics:

Robotics, powered by AI, is gaining prominence in construction, with autonomous robots performing tasks such as bricklaying, welding, and site surveying. AI also plays a key role in **drones** for surveying and mapping, collecting real-time data to monitor construction progress and detect potential issues.

#### • AI in Safety Management:

Safety is a major concern in construction, and AI is helping to reduce accidents and improve safety on job sites. AI technologies, including **computer vision**, can analyze live video feeds to detect safety hazards such as workers not wearing protective equipment or dangerous activities. AI systems can also predict potential safety risks based on historical accident data and recommend preventive actions.

#### • AI in Predictive Maintenance:

AI is used for **predictive maintenance** of construction equipment, ensuring that machines are serviced before they break down. By analyzing sensor data from construction machinery, AI can predict failures and recommend maintenance schedules, reducing downtime and repair costs.





#### • AI in Sustainable Construction:

AI is also playing a role in promoting sustainability in the construction sector. By optimizing material usage, energy consumption, and waste management, AI can help construction projects become more environmentally friendly. AI-driven **energy-efficient building systems** and **smart grids** are improving the energy efficiency of buildings, reducing both operational costs and carbon footprints.

#### c. Case Studies and Real-World Examples

Dr. Shirule presented several case studies that demonstrate the successful application of AI in construction:

- Autonomous Construction Vehicles: Several companies are now deploying AIpowered autonomous vehicles to perform tasks such as excavation and material transportation, significantly reducing the need for manual labor and increasing operational efficiency.
- AI for Construction Monitoring: AI is being used for real-time project monitoring, where AI tools analyze data from sensors and cameras on the construction site to track progress and detect issues such as structural flaws or delays.
- AI in Smart Cities: Dr. Shirule also discussed the role of AI in building smart cities, where AI integrates infrastructure management systems like traffic control, utilities, and waste management to create efficient and sustainable urban environments.

#### d. Challenges in Implementing AI in Construction

Despite the promising potential of AI, Dr. Shirule pointed out several challenges in adopting AI in the construction industry:

- **High Initial Costs:** AI implementation requires substantial investment in both technology and training. Small and medium-sized construction companies may face financial challenges in adopting AI solutions.
- **Data Availability and Quality:** AI systems require high-quality data for accurate predictions and analyses. The construction industry still struggles with data fragmentation, making it difficult to integrate AI systems effectively.
- **Skill Gaps:** There is a shortage of skilled professionals who understand both AI technologies and the construction industry. This gap hinders the adoption of AI solutions.
- **Resistance to Change:** Many construction companies are still hesitant to embrace AI due to a lack of understanding of its benefits or fear of job displacement.

#### e. The Future of AI in Construction

Looking ahead, Dr. Shirule emphasized that the construction industry will continue to experience significant disruption from AI technologies. The future will see the rise of AI-powered smart construction sites, fully automated construction processes, and buildings that are not only energy-efficient but also self-sustaining through AI-enabled systems. She





encouraged industry professionals to embrace these changes and start integrating AI tools into their operations to stay competitive.

#### 4. Interactive Session

Following Dr. Shirule's presentation, an interactive Q&A session took place where participants engaged with the speaker on topics such as:

- The scalability of AI in small-scale construction projects.
- AI's role in reducing construction-related environmental impacts.
- How construction companies can start adopting AI technologies on a smaller scale before full integration.

Dr. Shirule provided practical advice on starting with AI pilot projects and emphasized the importance of collaborating with AI specialists to ensure effective implementation.

#### 5. Conclusion

The seminar concluded with a summary of the key takeaways. Dr. P. A. Shirule reaffirmed that **AI** is **not just a tool but a catalyst** for revolutionizing the construction industry. Its ability to improve efficiency, safety, sustainability, and overall project outcomes makes it an indispensable technology for the future of construction. She urged the attendees to explore AI applications in their respective projects and start adapting to the evolving landscape of the construction industry.











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