



JULY 2025

NEWSLETTER

NIRMITI

JULY 2025

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NEWSLETTER

Written By : Dr. Atul Khatri

Message From HoD

Welcome to the Civil Engineering Department. Civil Engineering is one of the core branches of Engineering and involves planning, designing, structural work, construction and Management. The Civil Department has been one of the growing Departments in MMIT since 2019. It provides the platform to showcase all activities related to students, faculties and several other interactive programs.

The department has a well-established infrastructure having laboratories of Concrete Technology, Fluid Mechanics, Environmental Engineering, Geotechnical Engineering, Engineering Geology, Surveying, Strength of Material, Transportation and Civil CADD Laboratory with good quality equipment to enhance the quality of education and Research.

Departments have MoUs with industries to impart technical knowledge and skill to students in the field of Civil Engineering. The department also encourages the students for competitive exams like Maharashtra Engineering Services (MES), IES and in the private sector.

Dr. Atul Khatri
Head of the Civil Engineering
Department



Message from the Editor :

We are presenting you with our newsletter. We believe that the session was too informative and will help immensely in the development of student's field knowledge. It was a splendid presentation, which exposed students to the digital world of technologies in the field of construction. This Newsletter also allows our student and staff to spotlight their insights, ideas and innovations and to show how this can be applied in almost any organization. The success of this newsletter depends on your response. I would appreciate your feedback.



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Written By : Dr. Atul Khatri

Vision, Mission, PSO & PEO

● Department Vision:

"To establish the department in the field of "Civil Engineering" focused on quality education, center of excellence, and innovative research."

● Department Mission:

M1: To promote quality education, research, and consultancy for industry and society.

M2: To establish a center of excellence in the field of research.

M3: To train students in industrial interactions and innovative thinking with relevance to entrepreneurship.

● Programme Specific Outcome (PSO) :

1: Engineering Graduates will be able to organize and carry out various kinds of tasks on infrastructure projects.

2: Engineering Graduates will be capable to analyze and build civil engineering system components.

● Programme Educational Objectives (PEO) :

1: Civil graduates will be engaged in problem solving using Engineering Principles to overcome the need of society.

2: Civil graduates will deal with wide variety of engineering tasks like designing, supervision, construction and maintenance activity.

3: Civil graduate pursue lifelong learning both in their choose profession and other activity.



**MARATHWADA MITRAMANDAL'S OF INSTITUTE OF
TECHNOLOGY, LOHGAON PUNE**

DEPARTMENT OF CIVIL ENGINEERING
"TOWARDS UBIQUITOUS COMPUTING TECHNOLOGY"

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EXPERT LECTURE

Event By : Dr.Kakade S A
Event Date : 31 July 2025



EXPERT LECTURE ON "IMPORTANCE OF BIM AND CAD IN CIVIL ENGG"

Event Title: "Importance of BIM and CAD in Civil Engg".
Date: July 31, 2025

Venue: Marathwada Mitra Mandal's Institute of Technology, Lohgaon Pune

Speaker: Mr.Vikram Vijaykumar Bagade

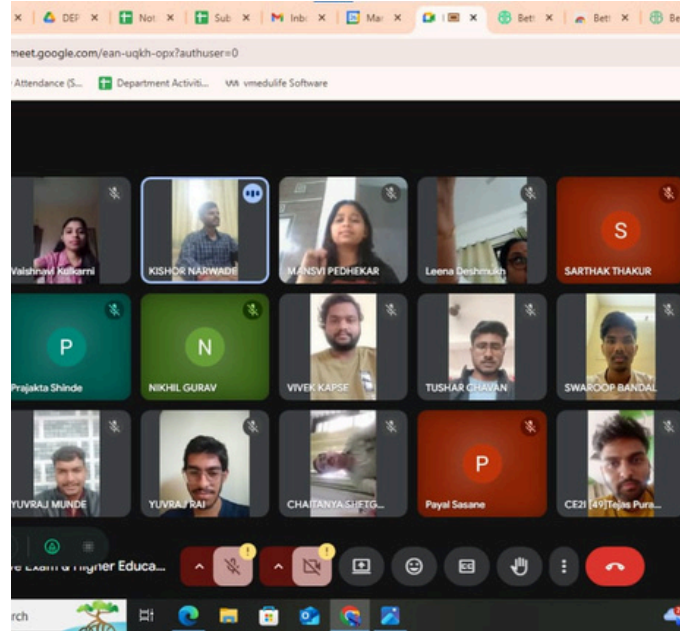
Organizer: Marathwada Mitra Mandal's Institute of Technology, Lohgaon Pune

Attendees: Third Year and Final Year Engineering (TE & BE) Students

Session Highlights:

- Introduction to CAD & BIM – Definition, evolution, and differences.
- Role in Civil Engineering – Planning, design, analysis, and documentation.
- BIM Advantages – 3D visualization, coordination, clash detection, lifecycle management.
- CAD Applications – Drafting accuracy, customization, and integration with analysis tools.
- Comparison: BIM vs CAD – When to use each and how they complement each other.
- Real-world Applications – Infrastructure projects, buildings, transportation systems.
- Future Trends – Automation, AI integration, digital twins.

**Event By : Competitive Exam & Higher
Education Club, MMIT Lohgaon**
Event Date : 26 July 2025



ONLINE EXPERT LECTURE ON GOVERNMENT EXAM PREPARATION

Event Title: Preparation of Government Exams
Date: 26th July 2025

Venue: Zoom platform, MMIT, Lohgaon, Pune

Participants: students

Organizer: Department of Civil Engineering, MMIT

Speaker: Ms. Vaishnavi Kulkarni, Town Planning Assistant

EVENT HIGHLIGHTS:

- Exam Pattern & Syllabus Breakdown – Understanding the structure, weightage, and important topics for various competitive exams.
- Time Management Tips – Creating effective daily, weekly, and monthly study schedules.
- Smart Study Techniques – Use of mock tests, revision plans, and previous years' question paper analysis.
- Resource Guidance – Recommended books, online platforms, and study materials for optimal preparation.
- Motivation & Mindset – How to stay disciplined, handle stress, and maintain consistency.
- Interactive Q&A Session – Direct interaction with the expert to clarify doubts and get personalized tips.



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GUEST LECTURES

Event By : Dr. S.A.Kakade

Event Date : 31 July 2025



EXPERT SESSION ON IMPORTANCE OF AUTOCAD/ BIM IN CIVIL ENGG

Event Title: "Expert Session on Importance of AutoCAD/ BIM in Civil Engg."

Event Date: 31/07/2025

Event Conduction Duration: 10.45 am-12.45 pm

Event Venue: Classroom B104

Event Resource Person Details – Mr.Vikram Vijaykumar Bagade -CAD/BIM
Expert,Zonal Franchise Manager at Caddesk India Pvt. Ltd.

Expert session on AutoCAD/ BIM aims to:

- Participants gained a clear understanding of Building Information Modeling (BIM), its principles, and its significance in modern construction practices.
- Hands-on experience with industry-standard BIM software such as Autodesk Revit, Navisworks, or AutoCAD Civil 3D enhanced technical skills.
- Students learned how to create and interpret 3D models, improving their ability to visualize and analyze complex structures and designs.
- Exposure to clash detection and multidisciplinary coordination highlighted the importance of integrated project delivery.

Introduction to time (4D) and cost (5D) integration in BIM expanded students' understanding of construction planning and estimation.



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GUEST LECTURES

Event By : Dr. S.A.Kakade

Event Date : 17 July 2025



EXPERT LECTURE ON CAREER OPPORTUNITIES AND PROJECT SELECTION IN CIVIL ENGINEERING

Date: 17th July 2025

Venue: B104 Classroom, MMIT, Lohgaon, Pune

Participants: students

Organizer: Department of Civil Engineering, MMIT

Speaker: Dr. Udaykumar Pathak

Event Highlights

- Overview of Civil Engineering Domains – Structural, Geotechnical, Transportation, Water Resources, Environmental, and Construction Management.
- Career Pathways – Government sector, private consultancy, contracting firms, research & academia, entrepreneurship.
- Emerging Fields – Sustainable construction, smart cities, BIM, GIS, disaster management.
- Skills in Demand – Technical expertise, project management, software proficiency, communication, and teamwork.
- Project Selection Criteria – Relevance to specialization, feasibility, innovation, societal impact, and sustainability.
- Case Studies – Successful student projects and career journeys.
- Guidance & Resources – Professional bodies, internships, certifications, and networking.

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Workshop

Event By : Asst. Prof. S.A.Kakade

Event Date : 22 July 2025



BIM AWARENESS WORKSHOP

Event Title: A Workshop on “BIM Awareness”

Event Date: 22/07/2025

Event Conduction Duration: 1.30 pm-3.30 pm

Event Venue: MMIEDs College of Architecture Seminar Hall

Event Resource Person Details – Ar. Chirag Dedhia-Founder of Studio4

WORKSHOP ON BIM AIMS TO:

- PARTICIPANTS GAINED A CLEAR UNDERSTANDING OF BUILDING INFORMATION MODELING (BIM), ITS PRINCIPLES, AND ITS SIGNIFICANCE IN MODERN CONSTRUCTION PRACTICES.
- HANDS-ON EXPERIENCE WITH INDUSTRY-STANDARD BIM SOFTWARE SUCH AS AUTODESK REVIT, NAVISWORKS, OR AUTOCAD CIVIL 3D ENHANCED TECHNICAL SKILLS.
- STUDENTS LEARNED HOW TO CREATE AND INTERPRET 3D MODELS, IMPROVING THEIR ABILITY TO VISUALIZE AND ANALYZE COMPLEX STRUCTURES AND DESIGNS.
- EXPOSURE TO CLASH DETECTION AND MULTIDISCIPLINARY COORDINATION HIGHLIGHTED THE IMPORTANCE OF INTEGRATED PROJECT DELIVERY.
- INTRODUCTION TO TIME (4D) AND COST (5D) INTEGRATION IN BIM EXPANDED STUDENTS' UNDERSTANDING OF CONSTRUCTION PLANNING AND ESTIMATION



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Faculty Development Program

Event By : Dr. A A Thakare

Event Date : 26 July 2025



Train the trainer

EVENT TITLE: TRAIN THE TRAINER

EVENT DATE: 26/07/2025

EVENT VENUE: B104 MMIT LOHGAON PUNE

EVENT RESOURCE PERSON DETAILS – DR. AKSHAY THAKARE

OBJECTIVE OF DEPARTMENT SESSION

THE OBJECTIVE OF THE INTERNAL SESSION WAS TO DISSEMINATE THE KEY LEARNINGS FROM THE CCE PROGRAM TO ALL FACULTY MEMBERS OF THE DEPARTMENT, FOSTERING COLLABORATIVE LEARNING AND ENSURING THAT THE KNOWLEDGE GAINED BENEFITS THE WIDER TEAM.

KEY HIGHLIGHTS OF THE PRESENTATION

DURING THE SESSION, [NAME OF FACULTY] COVERED THE FOLLOWING POINTS:

- **OVERVIEW OF THE CCE PROGRAM: STRUCTURE, DURATION, AND TOPICS COVERED AT IIT BOMBAY.**
- **TECHNICAL CONTENT: KEY CONCEPTS, METHODOLOGIES, AND TOOLS INTRODUCED DURING THE TRAINING.**
- **CASE STUDIES & EXAMPLES: REAL-WORLD APPLICATIONS SHARED DURING THE IIT BOMBAY PROGRAM.**
- **BEST PRACTICES: INNOVATIVE APPROACHES AND STANDARDS THAT CAN BE INCORPORATED INTO DEPARTMENTAL TEACHING AND RESEARCH.**
- **RELEVANCE TO DEPARTMENT ACTIVITIES: POTENTIAL INTEGRATION OF LEARNED CONTENT INTO CURRICULUM, LABORATORY WORK, AND STUDENT PROJECTS**

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INDUSTRIAL VISITS

Event By : Prof. P D Shinde & Prof C A Shetgar

Event Date : 28 Feb 2025

Industrial Visit to India Metrological Department Pune



- **Objective of the Visit**
- The purpose of this academic visit was to provide students with real-time exposure to the instruments, data collection methods, and applications used in meteorology. The visit focused on three main units of IMD Pune:
 - Surface Meteorological Laboratory
 - Seismology and Earthquake Monitoring Unit
 - CAGMO Observatory (Centre for Advanced Geophysical Monitoring and Observation)
- The India Meteorological Department (IMD), Pune is a regional center under the Ministry of Earth Sciences, Government of India. It plays a critical role in collecting, analyzing, and disseminating weather and climate-related data. IMD supports sectors such as agriculture, water resources, aviation, and disaster management.

The visit to IMD Pune, including the Surface Lab, Seismology Unit, and CAGMO, was a comprehensive learning experience. It bridged the gap between theoretical knowledge and real-world application in civil and agricultural water management. This exposure has enhanced students' awareness of climate-sensitive engineering practices.

From TE and BE 31 students are present accompanying with 02 Faculty members

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INDUSTRIAL VISITS



Surface Meteorological Laboratory Floating Type Rain Gauge Station



**Seismology and Earthquake
Monitoring Unit**

**Evaporation Pan (Double
Evaporimeter)**

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ACHIEVEMENTS



Honored to be part of the PCERF ‘YOUCONS 2.0’ Membership Launching Ceremony as a Core Committee Member.



Prof. Kishor Narwade has participated and completed successfully One day Faculty development program on Surveying Using Advance equipments and techniques at Anatrao Pawar College of Engineering & Research Pune in association with Hexagon Geosynthetics on 30 July 2025



Dr. Akshay A Thakare has participated and completed CCE training at IIT Mumbai from 30.06.25 to 11.07.25