VPKBIET	**Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati 2025-26**	A+ NAAC
	Department of Civil Engineering	NBA
	Report on Industrial visit conducted in association with Industry Institute Interaction cell (IIIC)	

A site visit is an essential learning experience that enhances academic knowledge, fosters innovation, and prepares students for future careers in Civil Engineering.

Visit to 'Seven Star Icon building construction site' near Pencil chowk, Vidya corner, near VP Campus, Baramati.

Name of Project for Site Visit:	Seven Star Icon building construction site near Pencil chowk, Vidya corner, near VP Campus, Baramati
Class and Semester	TY Civil, 2023 Pattern (Sem:VI)
No. of Participants:	50 (out of 78)
Date of Visit:	24th December 2025
Time & duration	betn 11.30 **am to 1:30 pm (2 hours)**
Course (Subject)	Airport and Bridge Engineering: Programme Elective course CE CE23312c
	HON: (ADCS)- Advanced Design of Concrete Structures, VSEC-ETAB
Industrial visit organized under	Center of excellence 'Town and Country Planning' and in association of IIIC
Industrial visit organized by	Department of Civil Engineering
Industrial visit coordinated by	Prof. D. G. Patil, Dr. U. T. Jagadale
Link for report	https://www.vpkbiet.org/dept_Civil.php industrial visits

General Details of Visit:

1. Introduction

An industrial visit was organized for Third Year Civil Engineering students to the Seven Star Icon construction site located near Pencil Chowk, Baramati. The visit aimed to bridge the gap between theoretical knowledge and practical field applications. Construction sites provide real-time exposure to planning, execution, and management practices followed in the industry. This visit helped students understand how classroom concepts are implemented at an actual project site.

2. Objectives of the Industrial Visit

The main objectives of the industrial visit were:

• To understand the overall construction methodology followed in a real project.

• To study various stages of building construction activities.

• To observe different construction equipment and machinery used on site.

• To understand construction management practices such as scheduling, supervision, and coordination.

• To learn about safety measures adopted at construction sites.

• To gain exposure to quality control practices and material management.

• To interact with site engineers and owners to understand professional responsibilities.

• To motivate students towards internships and practical training opportunities.

3. Site Description

Seven Star Icon is an ongoing building construction project located near Pencil Chowk, Baramati. The project involves modern construction techniques and systematic execution of structural and finishing works. The site includes RCC structural elements, masonry works, service installations, and finishing activities. The layout and planning reflect current industry standards in residential/commercial construction.

4. Construction Methodology Observed

Students were explained the step-by-step construction methodology followed at the site, including:

• Site clearing and layout marking

• Excavation and foundation preparation

• PCC and RCC foundation works

• Column, beam, and slab construction

• Formwork and centering techniques

• Reinforcement detailing and placement

• Concrete mixing, transportation, pouring, and curing

• Masonry works using bricks/blocks

• Plastering and finishing operations

• Plumbing and electrical service integration

The importance of sequence, accuracy, and supervision in construction activities was emphasized.

5. Equipment and Machinery Observed

Students observed and learned about the functioning and applications of various construction equipment, such as:

• Concrete mixer

• Vibrators for compaction

• Bar bending and cutting machines

• Scaffolding and shuttering systems

• Material lifting arrangements

• Hand tools used for masonry and finishing works

• Measuring instruments like tape, level tube, and plumb bob

The role of machinery in improving efficiency, safety, and quality was explained by site personnel.

6. Construction Management Practices

The visit provided insights into construction management practices including:

• Site planning and daily work scheduling

• Labour management and task allocation

• Coordination between engineers, supervisors, and workers

• Material procurement and storage management

• Quality control checks at different stages

• Safety management and use of personal protective equipment (PPE)

• Record keeping and progress monitoring

Students understood how proper management helps in timely completion of projects.

7. Safety Measures Observed

The following safety practices were highlighted during the visit:

• Use of helmets, safety shoes, and reflective jackets

• Safe handling of tools and equipment

• Barricading of hazardous zones

• Proper scaffolding support

• Awareness regarding onsite risks and precautions

Students were informed about the importance of safety culture in construction projects.

8. Interaction with Site Owners and Engineers

The Partner of Project (Mr. Anil Kaygude sir) and Project Engineer Mr. Dyandeep Shinde Sir interacted with the students and explained ongoing activities, challenges in construction, and real-life problem-solving approaches. They also shared insights about career opportunities in the construction sector.

Notably, the site owners generously agreed to provide internship opportunities to interested students, which will help them gain hands-on experience and professional exposure in the future.

9. Learning Outcomes of the Visit

After completing the industrial visit, students were able to:

• Understand practical execution of construction activities

• Relate theoretical concepts with real-site practices

• Identify various construction equipment and their applications

• Learn basics of site management and supervision

• Appreciate the importance of safety and quality control

• Gain awareness about professional responsibilities of civil engineers

• Develop interest in site-based learning and internships

10. Conclusion

The industrial visit to the Seven Star Icon construction site was highly informative and beneficial for TY Civil Engineering students. It provided valuable practical exposure and enhanced their understanding of construction methodology, equipment usage, and management processes. The opportunity for internships further added value to the visit by opening avenues for experiential learning. Such industrial visits play a vital role in strengthening industry–academia interaction and preparing students for professional careers in civil engineering.

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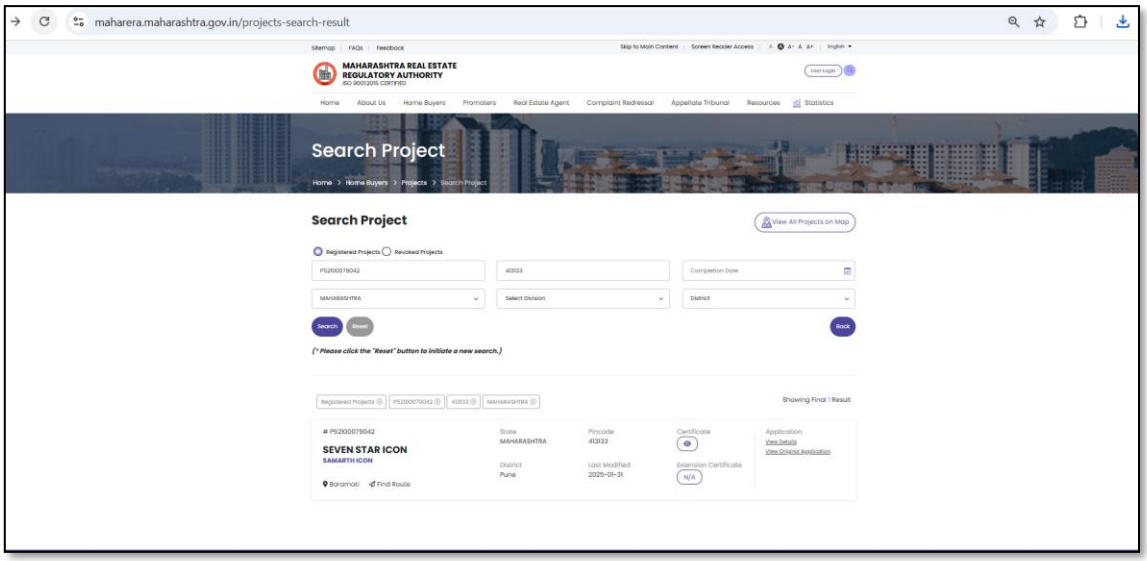


Fig 1: Details of project on MAHARERA website

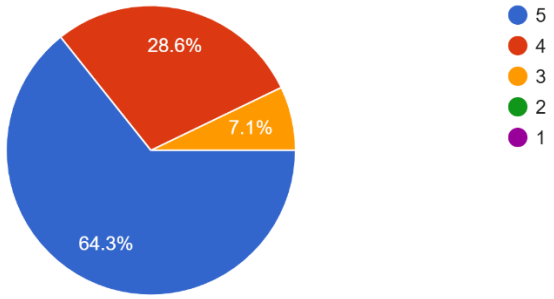
Some photos taken during site visit:

Visit to 'Seven Star Icon building construction site' near Pencil chowk, Vidya corner, near VP Campus, Baramati.

Feedback:

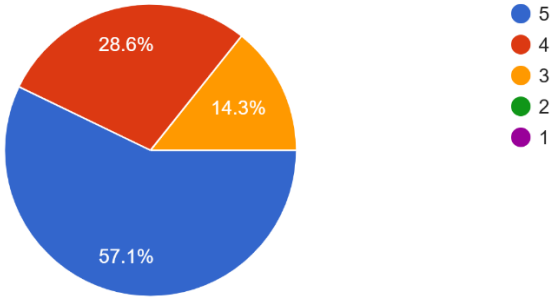
1. The field visit was timely and time available was used appropriately.

14 responses



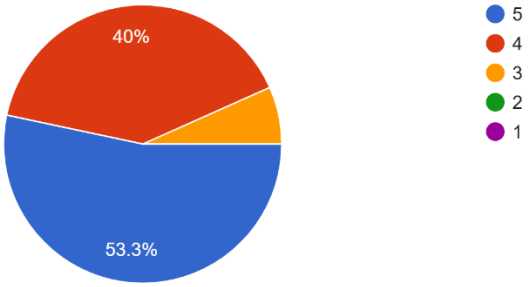
2. The visit was well organized and planned with all requirements and permissions.

14 responses



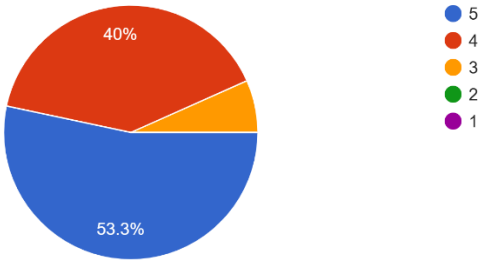
3. The location selected was appropriate to meet the stated objectives and students could see all technical points as per discussions.

15 responses



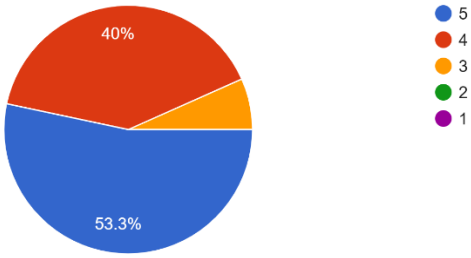
4. The visit was useful to strengthen knowledge gathered in lectures and considering practical applications, understanding career opportunities.

15 responses



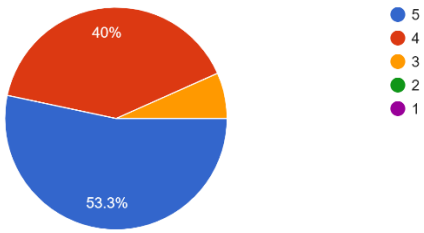
5. Aims and objectives, instructions for the visit were explained at the beginning and proper care was taken during visit considering safety of students at site

15 responses



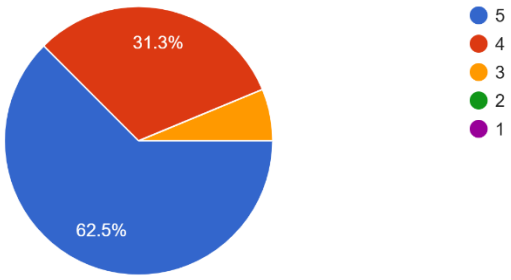
6. A teacher accompanied the students during the visit and guided students at all locations with care.

15 responses



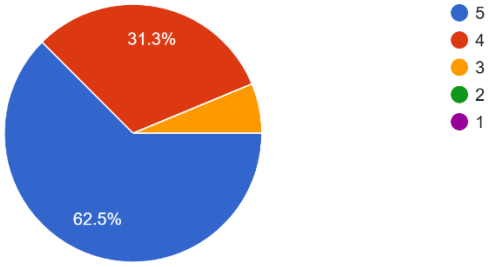
7. The Teacher and officers on site explained working , operations on site by giving sufficient time.

16 responses



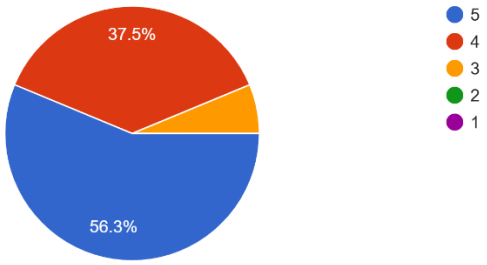
8. The Teacher/Resource Person at site were responsive to student's questions during the visit and they cleared doubts related to subject.

16 responses



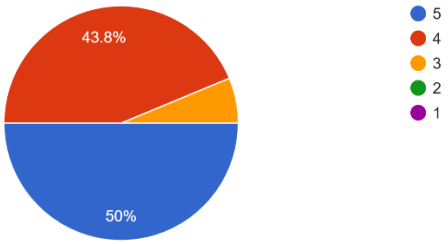
9. The Teacher/officers at site encouraged student participation and understanding of operations at site.

16 responses



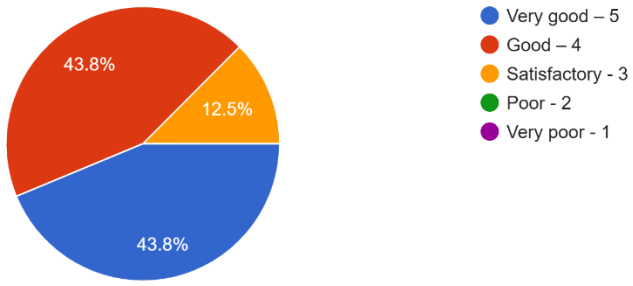
10. I recommend such field visits to be continued further for better industrial exposure.

16 responses



11. The overall grading of the Visit: Very good – 5 Good – 4 Satisfactory - 3 Poor - 2 Very poor - 1

16 responses



12. What you learned in this visit related to Civil Engineering (text)

16 responses

During the visit to the Seven-Star Icon Building, I gained practical understanding of how civil engineering concepts are applied in real high-rise construction. This site visit helped me connect theoretical knowledge with practical execution of civil engineering in high-rise luxury buildings. It enhanced my understanding of structural design, safety, services, and modern construction practices used in premium multi-storey buildings.

Deep Construction process

Practical work , application of theory and real world accounting

Soil Estimation use in construction , cutting of steel

Basics of commercial construction

Geological features and how wast construction is done

Geological features

Mapping of NBA Program Outcomes (POs) with Industrial Visit

The industrial visit to the *Seven Star Icon Construction Site, Baramati* contributed significantly to the attainment of several **NBA-defined Program Outcomes (POs)** for the Civil Engineering programme. The exposure helped students connect theoretical knowledge with real-life engineering practice, professional ethics, safety, and management aspects. The mapping and explanation of relevant POs are given below.

PO1 – Engineering Knowledge

Apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

During the visit, students applied their theoretical understanding of **construction materials, structural components, RCC design, and construction techniques** to observe real-time execution at site. Concepts learned in subjects such as Building Construction, Concrete Technology, and Structural Engineering were reinforced through direct observation of columns, beams, slabs, and foundations.

PO2 – Problem Analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions.

Students analyzed practical challenges such as:

- Site constraints and space limitations
- Sequencing of construction activities
- Material handling issues
- Safety-related risks

They understood how engineers diagnose construction-related problems and adopt suitable corrective measures.

PO3 – Design / Development of Solutions

Design solutions for complex engineering problems and design system components or processes that meet specified needs.

Through interaction with site engineers, students learned how design drawings are translated into execution and how modifications are made to suit site conditions. They gained insight into:

- Structural layout interpretation
- Construction sequencing
- Selection of appropriate construction methods
- Coordination between architectural and structural requirements

PO4 – Conduct Investigations of Complex Problems

Use research-based knowledge and research methods including data analysis and interpretation.

Students observed:

- Quality checks on materials
- Measurement and verification of dimensions
- On-site testing practices
- Observation-based evaluation of workmanship

This exposure helped them understand how field observations and measurements are used to assess construction quality and performance.

PO5 – Modern Tool Usage

Create, select, and apply appropriate techniques, resources, and modern engineering tools.

The visit familiarized students with modern construction tools and equipment such as:

- Concrete mixers and vibrators
- Bar bending and cutting machines
- Scaffolding systems
- Measuring and leveling tools

Students understood the role of mechanization in improving efficiency, accuracy, and safety.

PO6 – The Engineer and Society

Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal, and cultural issues.

Students gained awareness about:

- Safety responsibilities of engineers
- Importance of safe working conditions

- Compliance with regulations and approvals
- Impact of construction activities on surrounding society

This helped them appreciate the social responsibility of civil engineers.

PO7 – Environment and Sustainability

Understand the impact of engineering solutions in societal and environmental contexts and demonstrate knowledge of sustainable development.

Discussions at the site highlighted:

- Efficient use of materials
- Waste minimization
- Controlled construction practices
- Long-term sustainability considerations

Students understood how sustainable practices can be incorporated even in routine construction projects.

PO8 – Ethics

Apply ethical principles and commit to professional ethics and responsibilities.

Through interaction with site owners and engineers, students learned about:

- Ethical conduct in construction practice
- Transparency in execution
- Responsibility toward safety, quality, and compliance
- Professional behaviour expected from civil engineers

PO9 – Individual and Team Work

Function effectively as an individual and as a member or leader in diverse teams.

Students observed how engineers, supervisors, technicians, and workers coordinate as a team. The visit emphasized:

- Role distribution
- Communication among team members
- Leadership in site supervision

PO10 – Communication

Communicate effectively on complex engineering activities with the engineering community and society.

Students interacted with professionals, asked technical questions, and received explanations regarding construction processes. This interaction improved their:

- Technical communication
- Professional interaction skills
- Ability to understand site instructions and explanations

PO11 – Project Management and Finance

Demonstrate knowledge of engineering and management principles and apply them to one's own work.

The visit exposed students to:

- Work scheduling
- Labour management
- Material procurement
- Cost awareness
- Time-bound execution

This helped them understand the basics of project planning and construction management.

PO12 – Life-long Learning
Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning.
The interaction with industry professionals and exposure to real-site practices motivated students to:

- Pursue internships
- Learn beyond textbooks
- Stay updated with evolving construction technologies
- Develop interest in continuous professional growth

Summary Table: PO Mapping for Industrial Visit

NBA PO	Description	Attainment Through Visit
PO1	Engineering Knowledge	✓✓✓
PO2	Problem Analysis	✓✓
PO3	Design & Development	✓✓
PO4	Investigation of Problems	✓✓
PO5	Modern Tool Usage	✓✓✓
PO6	Engineer & Society	✓✓
PO7	Environment & Sustainability	✓✓
PO8	Ethics	✓✓
PO9	Individual & Team Work	✓✓✓
PO10	Communication	✓✓
PO11	Project Management	✓✓✓
PO12	Life-long Learning	✓✓

✓✓✓ = High contribution
✓✓ = Moderate contribution

Mapping of Program Specific Outcomes (PSOs) with Industrial Visit

The industrial visit to the “Seven Star Icon” construction site, Baramati, contributed significantly to the attainment of the Program Specific Outcomes (PSOs) of the Civil Engineering program. The visit enabled

students to correlate theoretical knowledge with real-world applications, understand societal and professional responsibilities, and gain exposure to entrepreneurial and industry-oriented practices. The mapping of PSOs with suitable justifications is presented below.

PSO 1: Ability to solve Civil Engineering problems by applying knowledge of domain area

The industrial visit supported the attainment of PSO 1 by enabling students to apply their domain knowledge of civil engineering subjects such as Building Construction, Concrete Technology, Structural Engineering, Construction Planning and Management, and Engineering Mechanics in a real-site environment.

During the visit, students observed practical implementation of:
- Foundation and superstructure construction techniques
- Reinforcement detailing and placement
- RCC components such as columns, beams, and slabs
- Construction sequencing and workflow
- Material selection and quality control procedures

By correlating classroom concepts with on-site practices, students developed problem-solving ability related to construction execution, site constraints, safety issues, and quality assurance. This exposure strengthened their capacity to analyze and solve practical civil engineering problems using domain knowledge.

PSO 2: Support society with solutions to civil engineering problems focusing on sustainable development and professional ethics

The industrial visit contributed to PSO 2 by sensitizing students to the societal, environmental, and ethical dimensions of civil engineering practice. Interaction with site engineers and observation of ongoing works helped students understand the responsibility of engineers towards public safety, sustainability, and ethical conduct.

Key learnings aligned with PSO 2 include:
- Importance of safety practices such as PPE usage, barricading, and hazard identification
- Adoption of quality control measures to ensure durability and public safety
- Awareness of sustainable construction practices and efficient material utilization
- Understanding environmental responsibility during construction activities
- Ethical conduct in execution, supervision, and compliance with standards

Through this exposure, students learned how civil engineers contribute to societal well-being by delivering safe, sustainable, and ethically executed infrastructure projects.

PSO 3: Enhance entrepreneurship skills by understanding challenges and emerging needs of society

The visit played an important role in enhancing entrepreneurial awareness among students by exposing them

to real-world challenges and opportunities in the construction sector. Interaction with project owners and site professionals provided insights into project planning, resource management, and decision-making.

Students gained understanding of:
• Practical challenges faced during project execution
• Coordination between engineers, contractors, and workers
• Cost, time, and resource management aspects
• Opportunities for self-employment, contracting, and consultancy
• Emerging demands in the construction industry

The assurance of internship opportunities further motivated students to explore entrepreneurship and professional practice. This exposure helped them recognize how civil engineers can innovate, take initiative, and respond to societal needs through entrepreneurial approaches.

Summary: PSO Mapping with Industrial Visit

PSO	Description	Contribution through Industrial Visit
PSO 1	Apply domain knowledge to solve civil engineering problems.	Understanding of real-time construction practices, structural execution, material behavior, and site problem-solving.
PSO 2	Support society through sustainable and ethical civil engineering solutions.	Exposure to safety practices, sustainability considerations, ethical conduct, and social responsibility in construction.
PSO 3	Enhance entrepreneurship skills and awareness of societal needs.	Understanding project management, industry challenges, internships, and entrepreneurial opportunities in construction.

List of visitors:

SN	Registration Number	Student Name	SN	Registration Number	Student Name
1	EN22105059	SOMVANSHI PRACHI PRAMOD	26	EN23105033	KHUTWAD CHAITANYA B
2	EN22105064	PATIL ADITYA ARUN	27	EN23105038	NARALE TRUPTI TANAJI
3	EN22105070	WAGHMODE MAYUR POPAT	28	EN23105043	PAWAR SHRINIWAS UTTAMRAO
4	EN22105077	DANDNAIK VAISHNAVI D	29	EN23105049	RAUT MANTHAN VISHNU
5	EN22105078	DHAVANE VISHAVJIT A	30	EN23105050	SAIRAJ S SAJJANSHETTY
6	EN22105080	KAPASE SHREYESH RAJENDRA	31	EN23105053	THAWARE SWARAJ PANDURANG
7	EN22105081	SHITOLE SHRAVANI BALASO	32	EN23105056	WANAVE PRIYANKA VISHNU
8	EN22105082	SOMASE UTKARASHA M	33	EN22105058	SHINDE ANKITA AJAY
9	EN23105001	ARVE YASH CHANDRASHEKHAR	34	EN24205070	CHAVAN AMRUTA BALIRAM
10	EN23105003	AWALE SAESH MILIND	35	EN24205071	CHAVAN SHREYA MUKUND
11	EN23105005	BARGE SRUSHTI JITENDRA	36	EN24205072	DABHADE NIKHIL PRAKASH
12	EN23105007	BHOSALE NUPUR SUNIL	37	EN24205073	DESAI SNEHAL RAJARAM
13	EN23105008	CHAUGULE SOHAM SANTOSH	38	EN24205074	JAGDALE DNYANESHWAR P
14	EN23105010	CHIKHALIKAR KSHITIJA R	39	EN24205075	GHOLAP PRATHMESH R
15	EN23105011	CHOUDHAR HARSHWARDHAN S	40	EN24205077	KADAM BHAGYASHREE DEVIDAS
16	EN23105012	DADHE SAMRUDDHI SUJIT	41	EN24205078	KADAM PANKAJ ZUMBAR
17	EN23105014	DERE SAKSHI VIVEK	42	EN24205079	MASKAR SURAJ SANTOSH
18	EN23105016	DHEKALE SHRUTI SANTOSH	43	EN24205080	MOKASHE SHRUTI SANTOSH
19	EN23105018	GADHAVE ADITYA SUMANT	44	EN24205081	NALAWADE SANIKA SUNIL
20	EN23105022	JAGTAP PRITAM SANTOSH	45	EN24205083	PAWAR YASH UMAKANT
21	EN23105023	JAGTAP SARTHAK MANOHAR	46	EN24205084	PISAL SAYALI RAJENDRA
22	EN23105024	JANKAR SAMARTH SANTOSH	47	EN24205085	SAKAT SAMEEKSHA SHASHIKANT
23	EN23105028	KAMBLE VIJAY SANTOSH	48	EN24205086	SATHE SANKET SATISH
24	EN23105029	KARE SUHANI JAGAN	49	EN24205088	SHINDE ISHWARI MARUTI
25	EN23105031	KHADE ANAND NETAJI	50	EN24205089	SHINGADE SHUBHAM MAHADEV

Dr. U. T. Jagadale
Course Teacher- ADCS, VSEC-ETAB

Mr. D. G. Patil
Course Teacher- ABE

Dr. C. B. Nayak
Head, dept of Civil Engg.