DEPARTMENT OF MECHANICAL ENGINEERING, NHCE

Presents

INDUSTRIAL VISIT to XP ROBOTICS

EVENT NAME: INDUSTRIAL VISIT TO XP ROBOTICS

DATE: 27.10.2026

TIME: 10:00 AM – 03:00 PM

VENUE: XP Robotics

FACULTY COORDINATOR:

Dr. Ananth Pai, Assistant Professor, NHCE

CONVENOR:

Dr. D.V. Sreekanth [HoD-ME]

Dr. R.J. Anandhi [VP - Academics]

Dr. Manjunatha [Principal]

TARGET AUDIENCE: Students of 3rd and 5th semester Mechanical Engineering

NEW HORIZON COLLEGE OF ENGINEERING

25 YEARS GLOBAL LEARNING

IEEE Robotics & Automation Society

ASME SETTING THE STANDARD

IEEE Advancing Technology for Humanity

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

Industrial Visit

XP Robotics

Room No. 2, Ground Floor,
01 & 02, K NO 189/1, Roopena Agrahara,
Bommanahalli, Bengaluru,
Karnataka 560068



27 October 2026

10:00 AM - 03:00 PM

3rd and 5th Semester Students

Faculty Coordinator
Dr. Ananth Pai
Assistant Professor-ME

Convenor
Dr. D V Sreekanth
HoD - ME

Dr. R. J. Anandhi
Vice Principal - Academics

Dr. Manjunatha
Principal

Organised by
Department of Mechanical Engineering

EVENT REPORT

Objectives

The industrial visit to XP Robotics was organised with the objective of providing students with practical exposure to emerging technologies in robotics, artificial intelligence and automation. The visit aimed to bridge the gap between theoretical knowledge acquired in the classroom and its real-world industrial applications.

The specific objectives of the visit were:

- To understand the applications of robotics and artificial intelligence in modern industrial and technological environments.
- To gain exposure to physical AI, intelligent machines and robotic systems.
- To understand the role of data acquisition, sensors, motion tracking and multimodal data in developing intelligent robotic systems.
- To familiarise students with emerging technologies such as robot teleoperation, machine perception and embodied intelligence.
- To provide insights into the integration of mechanical engineering, electronics, programming and artificial intelligence in contemporary robotics applications.
- To encourage students to explore career opportunities and emerging research areas in robotics and automation.

Company Overview

XP Robotics is a technology company focused on developing physical-world data and infrastructure for artificial intelligence and intelligent robotic systems. The company works towards enabling machines to learn, understand and interact with the physical world through real-world data capture, processing and deployment infrastructure. The company's approach focuses on bridging the gap between human demonstrations and robotic intelligence by collecting and processing high-quality, multimodal data. Its technological framework integrates data capture, collection, processing, quality control, labelling, annotation, model training and evaluation to support the development of intelligent robotic systems.

Some of the key technological areas associated with XP Robotics include:

- Physical AI: Enabling intelligent machines to learn, reason and perform tasks in real-world environments.
- Multimodal Data Acquisition: Capturing real-world information using cameras, depth sensors, inertial measurement units (IMUs), tactile sensors and motion-tracking systems.
- Robotics and Teleoperation: Utilising human demonstrations and remote operation to generate robot-action data and improve robotic capabilities.
- Data Processing and Annotation: Synchronising, structuring, labelling and processing collected data for machine learning applications.
- Embodied Intelligence: Supporting the development of robotic systems capable of perceiving, interacting with and performing tasks in physical environments.

Details of the Visit and Technical Session

The students of the Department of Mechanical Engineering, New Horizon College of Engineering, visited XP Robotics as part of the department's initiative to provide industry exposure and familiarise students with emerging developments in robotics and artificial intelligence. The students travelled from the college to the company's premises in a college bus, accompanied by three faculty members. Upon arrival, the team was warmly received by Mr. Kingston Stanley, representative of XP Robotics, who welcomed the students and faculty members and escorted them to the seminar hall located on the fifth floor of the facility.

The visit commenced with an introductory session providing an overview of the company, its technological focus and its role in the evolving field of robotics and artificial intelligence. The session highlighted the growing significance of AI in the physical world and discussed how advancements in computing, sensors and intelligent algorithms are transforming conventional machines into autonomous and intelligent robotic systems. The technical discussion covered various types of robots, their applications and the evolving relationship between humans and intelligent machines. The students were introduced to the broader developments in robotics, including industrial robots, service robots and autonomous robotic systems. The session also touched upon the fundamental laws and principles governing robotics, including the well-known Three Laws of Robotics, and discussed the importance of safety, ethical considerations and responsible AI development.

An interactive discussion followed the introductory presentation, during which students actively participated by raising questions about the company's operations, technological developments, applications of AI in robotics and the future scope of the field. The questions also provided an opportunity for students to understand the skills and technical competencies required to pursue careers in robotics, automation and artificial intelligence. The session provided students with valuable insights into the rapid evolution of robotics and highlighted the importance of interdisciplinary knowledge involving mechanical engineering, electronics, computer science and artificial intelligence in developing next-generation robotic systems.

Demonstrations and Key Technologies Observed

The technical demonstrations at XP Robotics provided students with practical exposure to various robotic platforms and emerging technologies associated with physical AI, human-robot interaction and autonomous systems. The demonstrations highlighted how human movements, sensory information and environmental data can be captured and utilised to develop intelligent robotic systems.

The following key technologies and robotic systems were demonstrated:

Robot Learning Through Human Demonstration

One of the interesting demonstrations involved a robotic system that could reproduce movements demonstrated by a human operator. The human operator physically interacted with the robot by holding and guiding its hand through a sequence of movements. The robot recorded the demonstrated movements and subsequently reproduced the same actions.

This approach is associated with Learning from Demonstration (LfD), also known as Programming by Demonstration. When the robot is physically guided through the required movements, the technique is specifically referred to as Kinesthetic Teaching. The system demonstrates how robots can acquire new skills through human interaction rather than relying entirely on conventional manual programming. Such approaches have significant potential in industrial assembly, material handling, repetitive operations and other applications where robots need to learn tasks through human demonstrations.

Autonomous Mobile Robot (AMR)

The students were also introduced to an Autonomous Mobile Robot (AMR) designed for industrial applications, particularly for material transportation and movement within manufacturing shop floors. AMR is a mobile robotic platform capable of navigating its surroundings and determining its movement path with minimal human intervention. Unlike conventional Automated Guided Vehicles (AGVs), which generally follow predefined paths such as magnetic strips or fixed guidance tracks, AMRs utilise onboard sensors and intelligent navigation algorithms to perceive their surroundings and dynamically plan their routes. The demonstrated AMR was equipped with multiple sensors that enable environmental perception, obstacle detection and navigation. Such robotic platforms typically integrate technologies such as LiDAR, cameras, proximity sensors, ultrasonic sensors, wheel encoders and inertial measurement units, depending on the system configuration.

The major industrial applications of AMRs include:

- Transportation of raw materials and components between workstations.
- Movement of finished products within manufacturing facilities.
- Intralogistics and warehouse automation.
- Supplying materials to assembly lines.
- Navigation and transportation in dynamic industrial environments.

The demonstration helped students understand the integration of mechanical systems, sensor technology, electronics and intelligent navigation algorithms in developing autonomous industrial transportation systems.

Tactile Gloves and Robotic Hand Interaction

Another interesting technology demonstrated during the visit involved tactile sensing gloves and robotic hand systems. These glove-based interfaces are designed to capture information related to human hand movements, finger positions and interactions with objects. Tactile sensing technology enables the measurement of physical contact and pressure distribution during object manipulation. When integrated with motion-tracking and sensing systems, these devices can capture valuable information about how humans grasp, hold and manipulate different objects. The captured information can be utilised to train robotic hands to replicate human manipulation tasks. Such technologies are particularly relevant to dexterous robotic manipulation, teleoperation and human-to-robot skill transfer.

The applications of this robot include:

- Training robotic hands to perform complex gripping operations.
- Handling objects of different shapes and sizes.

- Teleoperated robotic manipulation.
- Human-robot interaction and collaborative tasks.
- Developing intelligent systems capable of learning manipulation skills through human demonstrations.

Humanoid Bipedal Robots

The final demonstration involved humanoid robots with a bipedal configuration, designed to resemble the basic physical structure and movement capabilities of humans. These robots incorporate two legs for locomotion, along with a human-like upper body and articulated joints. The demonstration introduced students to the engineering challenges involved in developing humanoid robotic systems, particularly in relation to walking, balance maintenance, coordinated movement and interaction with the surrounding environment. Bipedal locomotion requires continuous coordination between multiple joints and actuators. The robot must maintain its centre of mass within a dynamically stable region while shifting its weight between the two legs during walking. This requires the integration of motion planning, feedback control, sensors and intelligent algorithms.

The sensors used in their robots included:

- Inertial Measurement Units (IMUs) for monitoring orientation and body movement.
- Cameras and depth sensors for environmental perception.
- Joint encoders for measuring angular position and movement.
- Actuators and motor-control systems for coordinated movement.
- Artificial intelligence and motion-planning algorithms for decision-making and locomotion.

Humanoid robots have potential applications in industrial assistance, logistics, healthcare, service applications and environments designed primarily for human interaction.

The demonstration provided students with an understanding of the multidisciplinary engineering involved in humanoid robotics, particularly the integration of mechanical design, dynamics, control systems, electronics and artificial intelligence.

Overall, the demonstrations provided valuable exposure to the transition from conventional programmed robotic systems towards intelligent robots capable of learning from human demonstrations, perceiving their surroundings and performing tasks autonomously.

Learning Outcomes:

The industrial visit to XP Robotics provided students with practical exposure to emerging developments in robotics, automation and artificial intelligence. The key learning outcomes of the visit were:

- Gained an understanding of the role of artificial intelligence in the development of intelligent robotic systems and physical AI.
- Understood the concept of Learning from Demonstration (LfD) and how robots can learn and reproduce human-performed tasks.

- Acquired knowledge of Autonomous Mobile Robots (AMRs), their navigation mechanisms, sensor integration and applications in industrial shop-floor material handling.
- Understood the role of tactile sensing and motion-tracking gloves in capturing human hand movements and transferring manipulation skills to robotic systems.
- Gained exposure to humanoid and bipedal robots and understood the challenges associated with locomotion, balance, stability and coordinated movement.
- Recognised the importance of sensors such as cameras, LiDAR, IMUs and proximity sensors in robotic perception and navigation.
- Understood the multidisciplinary nature of robotics, involving mechanical engineering, electronics, control systems, programming and artificial intelligence.
- Developed awareness of emerging industrial applications of robotics, including manufacturing automation, intralogistics, material handling and human-robot collaboration.
- Gained insights into emerging career opportunities, technical competencies and research possibilities in robotics, automation and artificial intelligence.
- Understood the importance of integrating theoretical engineering concepts with practical technological developments to address real-world industrial challenges.

Conclusions

The industrial visit to XP Robotics was an informative and valuable learning experience for the students of the Department of Mechanical Engineering, New Horizon College of Engineering. The visit provided practical exposure to emerging technologies in robotics, automation and artificial intelligence, enabling students to understand their growing significance in modern industrial and technological applications.

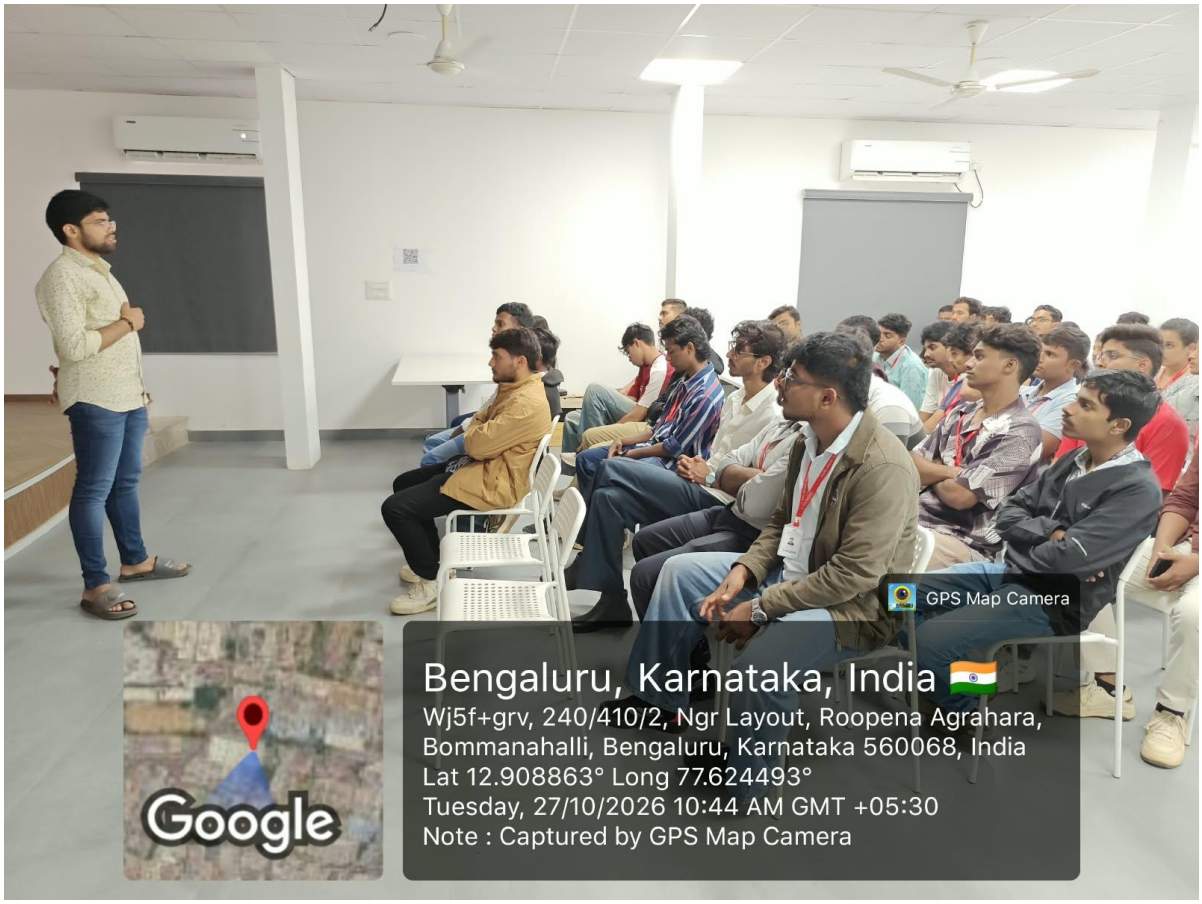
The demonstrations of learning-based robotic systems, Autonomous Mobile Robots (AMRs), tactile sensing technologies and humanoid bipedal robots helped students appreciate the integration of mechanical engineering, electronics, sensors, control systems and artificial intelligence in developing next-generation robotic solutions.

The interactive technical sessions also encouraged students to explore emerging research areas and understand the skills required to pursue careers in robotics and automation. Overall, the visit successfully complemented classroom learning with industry exposure and broadened students' understanding of the future possibilities of intelligent robotic systems.

HoD - ME

GLIMPSES OF THE EVENT

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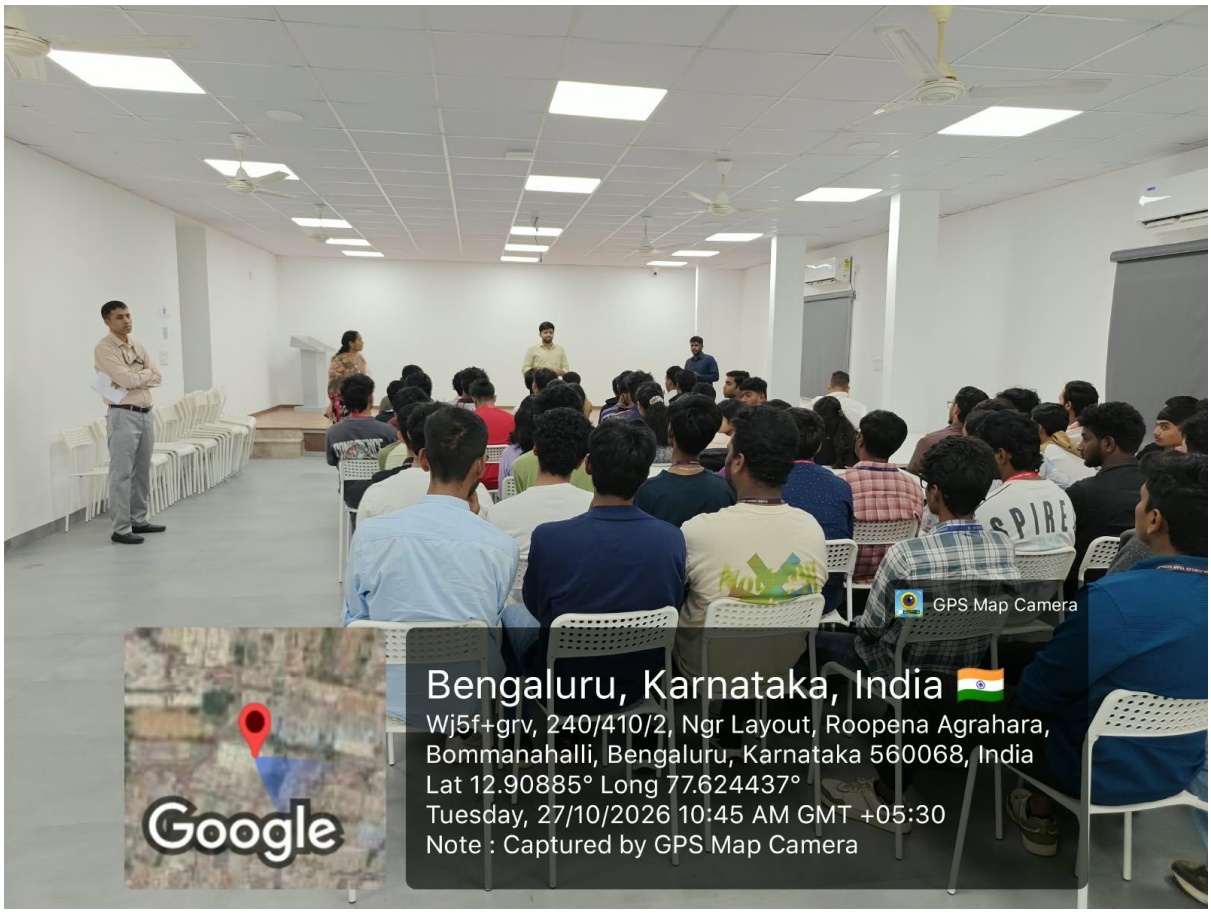
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ROBOTICS
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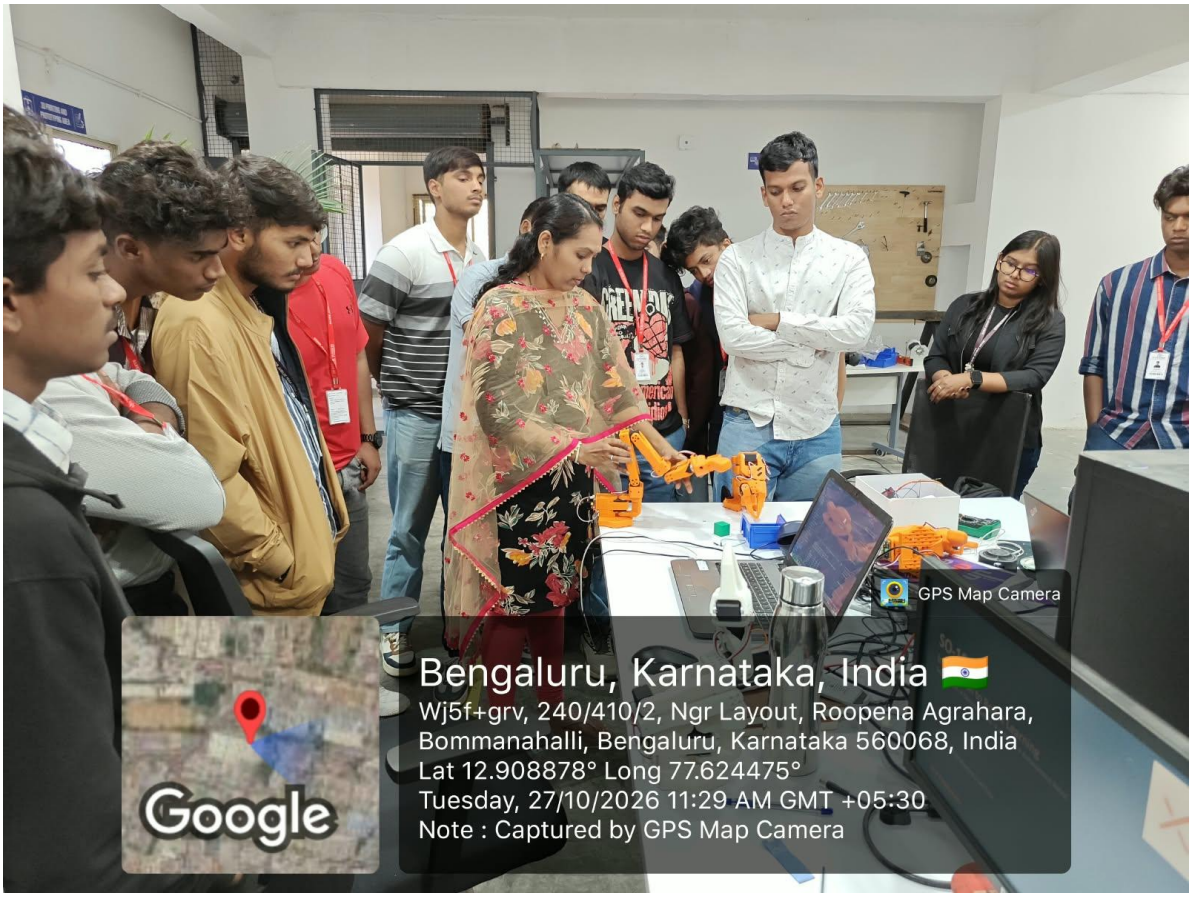
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XP Robotics Industrial Visit Feedback

36 people responded

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Please rate the following aspects of the visit

36 out of 36 people answered this question

	1	2	3	4	5
Pre-visit communication and instructions	**6%** (2 responses)	**14%** (5 responses)	**3%** (1 response)	**25%** (9 responses)	**53%** (19 responses)
Travel and transport arrangements	**6%** (2 responses)	**14%** (5 responses)	**0%** (0 responses)	**25%** (9 responses)	**56%** (20 responses)
Welcome and hospitality at XP Robotics	**3%** (1 response)	**14%** (5 responses)	**3%** (1 response)	**22%** (8 responses)	**58%** (21 responses)
Knowledge of the guides / presenters	**6%** (2 responses)	**11%** (4 responses)	**3%** (1 response)	**19%** (7 responses)	**61%** (22 responses)
Clarity of the demonstrations	**3%** (1 response)	**14%** (5 responses)	**3%** (1 response)	**19%** (7 responses)	**61%** (22 responses)
Relevance to our curriculum	**6%** (2 responses)	**11%** (4 responses)	**3%** (1 response)	**22%** (8 responses)	**58%** (21 responses)
Time allotted for the tour	**6%** (2 responses)	**14%** (5 responses)	**3%** (1 response)	**22%** (8 responses)	**56%** (20 responses)
Safety arrangements	**8%** (3 responses)	**8%** (3 responses)	**3%** (1 response)	**22%** (8 responses)	**58%** (21 responses)

Which parts of the visit did you find most valuable?

34 out of 36 people answered this question (and selected more than one option)

Company introduction / presentation	14 responses • **41%**
Live product demonstrations	21 responses • **62%**
R&D and design lab	22 responses • **65%**
Interaction with engineers	17 responses • **50%**
Q&A session	9 responses • **26%**
Career and internship insights	7 responses • **21%**

Did the visit improve your understanding of real-world robotics and automation?

36 out of 36 people answered this question

Yes, significantly	18 responses • **50%**
Yes, to some extent	16 responses • **44%**
Not really	1 response • **3%**
Not at all	1 response • **3%**

Would you be interested in pursuing projects and majoring in Robotics after this visit?

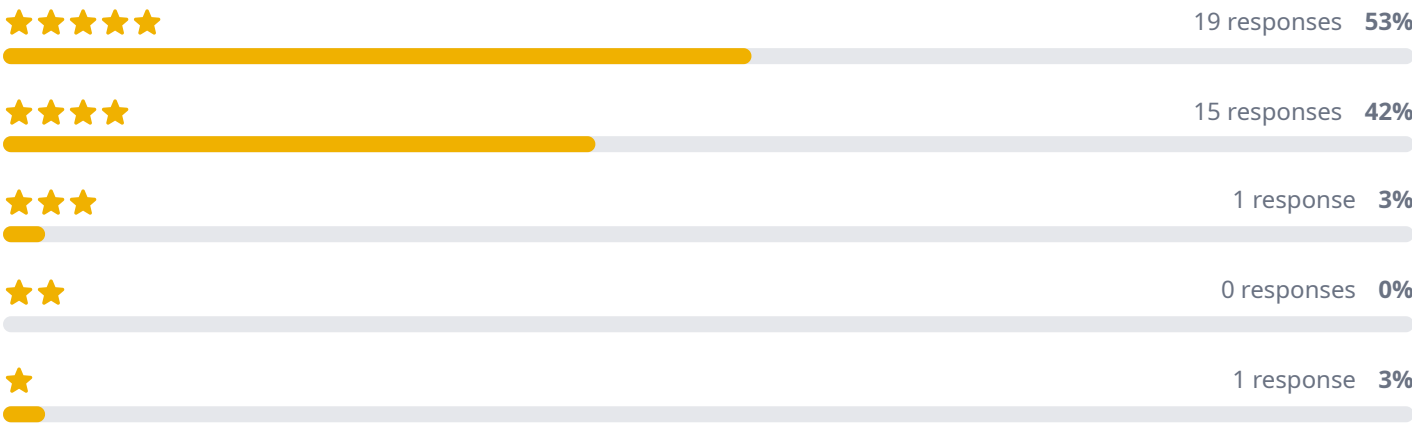
34 out of 36 people answered this question

Yes, definitely	23 responses • **68%**
Maybe	10 responses • **29%**
No	1 response • **3%**

How would you rate the overall industrial visit experience?

Average: 4.4

36 out of 36 people answered this question



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Mechanical Engineering
Attendance List for Industrial Visit-3rd SEM

Sl No.	Student Name	USN	signature
1.	ADITHYA B	1NH24ME006	
2.	DINAKAR GOWDA A V	1NH24ME026	
3.	KESHAV P	1NH24ME036	
4.	SYED ZUHAIR ABBAS	1NH24ME059	
5.	ADITYA SUNIL KUMAR	1NH25ME001-T	
6.	DUDEKULA VEERAN	1NH25ME002-T	
7.	ANSHU KUMAR DWIVEDI	1NH25ME003-T	
8.	ADNAN HUSSAIN	1NH25ME004-T	
9.	RISHAB KUMAR	1NH25ME006-T	
10.	K MOULI	1NH25ME007-T	
11.	M MANOGNA	1NH25ME009-T	
12.	PRAKYATH	1NH25ME010-T	
13.	GADDE SAI NISHANT	1NH25ME011-T	
14.	HIMANSHU RAJVANSH	1NH25ME012-T	
15.	CHINTALAPATI HASINI	1NH25ME013-T	
16.	SHESHADRI A	1NH25ME015-T	
17.	MOHAMED AYAAN SAIT	1NH25ME019-T	
18.	MUDITA TYAGI	1NH25ME021-T	
19.	AKSHAY SUBHAKRITH	1NH25ME022-T	
20.	BHAGATH GOWDA	1NH25ME024-T	
21.	R YHADAVENDRA	1NH25ME025-T	
22.	KSHITIJ KUMAR SINGH	1NH25ME026-T	
23.	TARUN AAHIL KARNAI	1NH25ME027-T	
24.	VENUGOPAL D V	1NH25ME028-T	
25.	RANJAN S	1NH25ME029-T	
26.	K T KARTHIK	1NH25ME500-T	
27.	MUTHURAJ R	1NH25ME501-T	
28.	TEJAS K	1NH25ME502-T	

NEW HORIZON COLLEGE OF ENGINEERING

Department of Mechanical Engineering

3rd SEM Mentoring List for AY:2026-27 (ODD Sem)

Sl no.	Student Name	USN	signature
29	ADARSH	1NH25ME503-T	
30	BHARATHKUMAR	1NH25ME504-T	
31	MAHENDRA REDDY E	1NH25ME505-T	
32	SAMARTH BASAVARAJ PATIL	1NH25ME506-T	
33	SHIVARAJ B T	1NH25ME507-T	
34	CHAITANYA DATTATRAYA NADIGER	1NH25ME508-T	
35	SAMARTH J	1NH25ME509-T	
36	AARON PRINSTON PINTO	1NH25ME510-T	
37	K VISHNU TEJA	1NH25ME511-T	
38	MOHAMMED SALEEM FAISAL	1NH25ME512-T	
39	G ABHISHEK	1NH25ME513-T	NA
40	SRUJAN N B	1NH25ME514-T	
41	R K GAUTHAM	1NH25ME515-T	
42	SHRISHANTH	1NH25ME516-T	
43	CHANDAN N REDDY	1NH25ME517-T	
44	SYED MOMIN SHA	1NH25ME518-T	
45	PREMA SALUNKE	1NH25ME519-T	
46	SHREYANK BIRADAR	1NH25ME520-T	
47	MOULYA J GOWDA	1NH25ME521-T	
48	SAMARTH PRASANN AMBEKAR	1NH25ME522-T	
49	SHREYA S	1NH25ME523-T	
50	RUSHIL ULLE	1NH25ME524-T	
51	PREM KUMAR MAJJIGI	1NH25ME525-T	
52	CHETHANA D	1NH25ME526-T	
53	VISHAL NAIK R	1NH26ME801-T	
54	AISHWARYA RAMESH KALMETLU	1NH26ME802-T	
55	SANJITH J	1NH26ME803-T	
56	MALLIKARJUN	1NH26ME804-T	
57	A M BHUVAN	1NH26ME805-T	
58	BHAGAVANT	1NH26ME806-T	

HOD-ME

NEW HORIZON COLLEGE OF ENGINEERING

Department of Mechanical Engineering
Attendance List for Industrial Visit - 5th SEM

Sl no.	Student Name	USN	signature
1	PUNITH YADAV N	1NH23ME044	
2	AAKASH HOSMANI	1NH24ME001	
3	AALIM OSMAN OLIYATH	1NH24ME002	
4	ABHIJITH SHIVA	1NH24ME003	
5	ADHVAITH SIVAKARNAN	1NH24ME004	
6	ADITH SAGAR GOWDA S	1NH24ME005	
7	AKSHAY M	1NH24ME009	
8	ALAN AUGUSTINE	1NH24ME010	
9	ANIRUDH AASISH	1NH24ME011	
10	ASHANK AMAR DESAI	1NH24ME012	
11	ASHWATH NARAYAN L	1NH24ME013	
12	AYYANNA PATTAR	1NH24ME014	
13	B L GOWTHAM	1NH24ME015	
14	BANDAKATI LAKSHMI PRASANTH REDDY	1NH24ME016	
15	BHUVAN B R	1NH24ME019	
16	BIPASH P D	1NH24ME020	
17	DARSHAN GUBACHI	1NH24ME022	
18	DHRUBAJYOTI DAN	1NH24ME023	
19	DIKSHITHA M REDDY	1NH24ME025	
20	H HRUSHIKESH VISHWAKARMA	1NH24ME029	
21	JEETESH BURJI	1NH24ME034	
22	KALIDINDI CHIRDEEP VARMA	1NH24ME035	
23	MAHADEVAN CHANDRASEKHARAN PILLAI	1NH24ME038	
24	MAHINDRA N C	1NH24ME039	

NEW HORIZON COLLEGE OF ENGINEERING

Department of Mechanical Engineering
Attendance List for Industrial Visit - 5th SEM

Sl no.	Student Name	USN	signature
25	MALLIPUDI VAISHNAVI	1NH24ME040	
26	MOHAMED MUEED	1NH24ME041	
27	MOHAN SHARMA	1NH24ME042	
28	NISHKAL A	1NH24ME044	
29	PRERAN H	1NH24ME045	
30	PRITHVI JOGUR	1NH24ME046	
31	RICKY HANISH J	1NH24ME047	
32	RITHVIK S	1NH24ME048	
33	S R KARTHIK	1NH24ME049	
34	S ROHITH GOWDA	1NH24ME050	
35	SACHITH C G	1NH24ME052	
36	SIDDHARTH DUTTA	1NH24ME054	
37	SUNIT GAUTAM	1NH24ME057	
38	SURAJ S	1NH24ME058	
39	T GIRI VARDAN REDDY	1NH24ME060	
40	THIRAJVELAN N	1NH24ME061	
41	KESHAVA G	1NH25ME400	
42	NAVEEN KUMAR RG	1NH25ME401	
43	PAUL VINITH D	1NH25ME402	
44	SHIVAPRASAD T K	1NH25ME403	
45	THARAK C S	1NH25ME404	
46	YASHWANTH A	1NH25ME405	
47	ALAN SEBASTIAN	1NH22ME006	
48	THATIGUNTA VIKAS KUMAR REDDY	1NH22ME057	
49	VINAY M	1NH22ME059	

HOD-ME