INDUSTRIAL VISIT

Date: 05th September 2025

Time: 11:00 am to 12:00 pm

Venue: PHN Technology (IT Company)

Introduction:

As part of the academic curriculum, the students of ASM Institute of Professional Studies (ASM IPS) had the privilege of visiting PHN Technology, a well-known IT company recognized for its innovative work in the fields of automation, robotics, artificial intelligence, and software solutions. Industrial visits play a crucial role in bridging the gap between classroom learning and real-world exposure, as they enable students to witness first-hand how theories and concepts studied in academics are practically applied in industries.

PHN Technology has established itself as a forward-thinking organization that focuses on creating smart technological solutions to meet the evolving demands of modern industries. The company's expertise ranges from ultrasonic testing, robotic automation, and technical hand designs to AI-based projects, reflecting its strong commitment toward innovation and technological advancement.

The visit was designed not only to familiarize students with the working environment of a professional IT company, but also to provide them with valuable insights into how teams collaborate on projects, integrate software with hardware, and apply problem-solving approaches to achieve results

Audyogik Shikshan Mandal's

(Society Regd. No. Maharashtra/1330/Pune 83; Public Trust No. F-2451/Pune 83)

INSTITUTE OF PROFESSIONAL STUDIES (IPS)

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AICTE CODE : 1-4240185   DTE CODE : MB6166   AISHE CODE : C-46639

Objective:

- To provide students with practical exposure to the functioning of an IT company.

- To understand the integration of hardware and software in industrial applications.

- To explore the role of robotics and automation in modern industries.

- To gain awareness about emerging technologies such as artificial intelligence and their significance for future career opportunities.

- To bridge the gap between theoretical learning and real-world practices.

Speaker: Mr Pradip H. Narayankar.

Report:

The visit began with a hands-on introduction to ultrasonic testing, a widely used non-destructive testing (NDT) technique. Students learned how ultrasonic waves are applied to detect internal flaws in materials without causing any physical damage. The demonstration helped them understand how this method ensures quality control and safety in various industries, particularly in sectors such as manufacturing, construction, and aerospace.

Following this, the company representatives engaged the students in a practical coding task. The exercise involved writing simple programs to interact with hardware systems, enabling students to see the direct relationship between coding logic and real-world machine behavior. This task allowed them to appreciate the importance of accuracy in programming and its role in ensuring proper integration of hardware and software.

Through this session, students realized that coding is not limited to software development alone, but plays a key role in automation, robotics, and industrial applications, where even small errors can have significant consequences.The second part of the visit focused on robotics, where the

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team at PHN Technology showcased their innovative projects. Students were introduced to a robotic technical hand, designed and developed by the company to perform tasks with precision and reliability. This robotic hand demonstrated how automation can replicate human movements while reducing the risk of error, The demonstration included discussions on the design process, mechanical components, and programming requirements that go into developing robotic systems. Students were fascinated to observe how robotics is applied across industries—ranging from healthcare and manufacturing to service industries—making processes more efficient and reducing dependency on manual labour. The experts explained that the future of IT professionals lies not only in technical knowledge but also in their ability to adapt, innovate, and apply creativity to solve complex industrial challenges. They stressed the need for students to develop both technical and soft skills, such as problem-solving, teamwork, and adaptability, to stay competitive in the job market. Apart from the technical learning, students also gained insights into the professional work culture of an IT company. They observed how teams collaborate, communicate, and divide responsibilities to ensure smooth project execution.The company representatives emphasized the importance of discipline, punctuality, and ethical practices in the workplace. They also highlighted how PHN Technology nurtures a culture of innovation, knowledge sharing, and continuous improvement, creating an environment where employees are encouraged to experiment and develop new ideas.

This exposure helped students understand that success in the IT field requires not only technical expertise but also professionalism, teamwork, and the ability to adapt to organizational goals.

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Photos:

Outcomes:

The industrial visit to PHN Technology proved to be highly educational and inspiring for the students. The outcomes include:

- Enhanced practical knowledge of ultrasonic testing, coding, and robotics.
- A clear understanding of the importance of automation and emerging technologies in the IT sector.
- Increased awareness of career opportunities in fields such as AI, robotics, and industrial automation.
- Motivation to innovate and adapt to the rapidly evolving technological environment.

Overall, the visit successfully fulfilled its objectives by bridging the gap between academic learning and industrial practices, leaving students with valuable insights for their future careers.