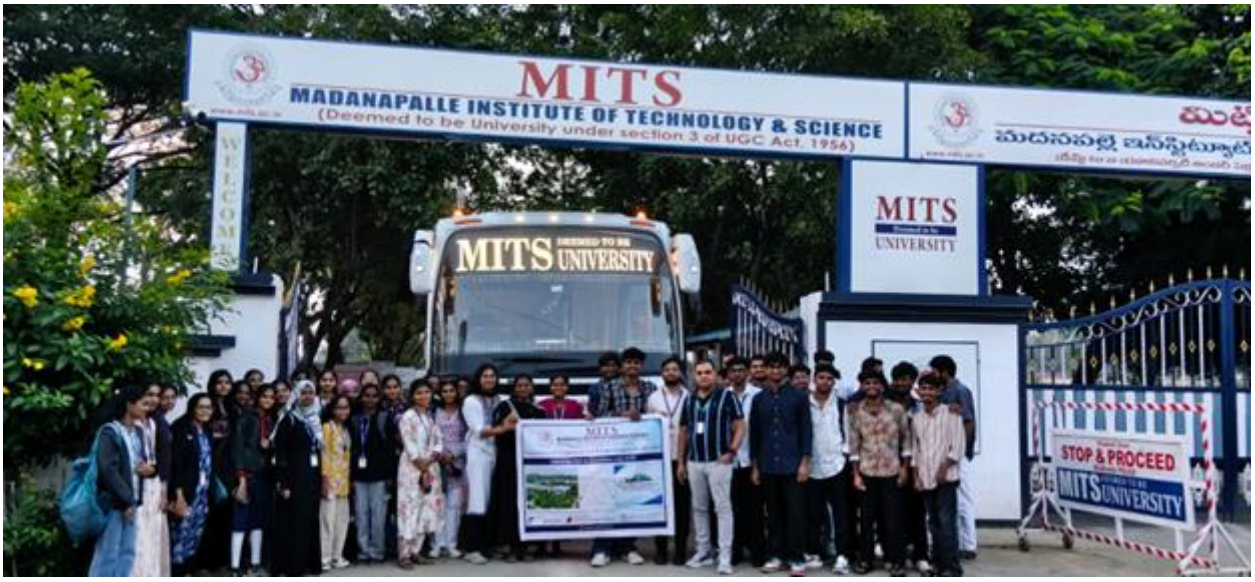
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
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A Report on Industrial Visit to "Quanta Wave Cyber R&D Lab" Organized by Department of Computer Science and Engineering (Cyber Security) on 29.10.2026



Report Submitted by: Dr. Sachikanta Dash, Associate Professor, Department of Computer Science and Engineering (Cyber Security)
Total No. of Participants: 54 Students (28 Boys and 26 Girls)
Mode of Conduct: Offline.
Faculties Accompanied: Dr. Sachikanta Dash, Associate Professor and Ms. Chinnapapannagari Aparna, Assistant Professor, Department of Computer Science and Engineering (Cyber Security)
Report Received on 31.10.2026

Introduction

A one-day Industrial Visit to QUANTAWAVE CYBER R&D LAB, Bengaluru, was organized by the Department of Computer Science and Engineering (Cyber Security), MITS Deemed to be University, on 29th October 2026. The visit was intended to provide students with practical exposure to Data Center Infrastructure, Cybersecurity, Networking Systems, Artificial Intelligence, and contemporary IT industry practices.

QUANTAWAVE CYBER R&D LAB is a startup-based technology organization focusing on Cybersecurity, Networking, Artificial Intelligence, and Emerging Technologies. The organization offers practical training, technical workshops, and industry-oriented learning opportunities for students and young professionals. A total of 54 students (28 boys and 26 girls) participated in the industrial visit, accompanied by two faculty members from the Department of Computer Science and Engineering (Cyber Security).

Objectives of the Visit:

- To provide practical exposure to real-time industrial infrastructure and IT operations.
- To understand the architecture and functioning of Data Centers and their essential components.
- To familiarize students with cybersecurity practices, security mechanisms, and emerging cyber threats.
- To gain insights into networking infrastructure, network administration, and communication systems.
- To understand the applications of Artificial Intelligence in cybersecurity and other emerging technological domains.
- To bridge the gap between theoretical classroom learning and practical industry requirements.
- To create awareness about career opportunities, industry expectations, and emerging trends in the IT and Cybersecurity sectors.

About "QUANTAWAVE CYBER R&D LAB":

QUANTAWAVE CYBER R&D LAB is a technology-based startup organization focused on research and development in the fields of Cyber Security, Networking, Artificial Intelligence and Emerging Technologies. The organization provides practical training, technical workshops, research activities, and industry-oriented learning opportunities for students and professionals.

The company aims to bridge the gap between academic knowledge and industry requirements by offering hands-on experience in real-time technologies and modern IT infrastructure. QUANTAWAVE CYBER R&D LAB encourages innovation, technical skill development, teamwork, and problem-solving abilities among students through live projects and interactive technical sessions.

The organization provides a professional startup environment with modern networking infrastructure, server systems, cybersecurity tools, and technical training facilities, enabling students to gain practical knowledge and real-time exposure to advanced technologies used in the IT industry.

Activities and Technical Exposure

During the industrial visit, students were introduced to various technological domains associated with the organization's areas of expertise. The sessions focused on providing insights into practical applications of concepts studied as part of their academic curriculum.

The major areas of exposure included:

a) **Data Center Infrastructure:** Students gained an understanding of the basic architecture and functioning of Data Centers, including server infrastructure, storage systems, networking components, power management, cooling mechanisms, and the importance of maintaining availability and reliability.

b) **Cybersecurity and Information Security:** Students were introduced to the importance of cybersecurity in protecting digital infrastructure, systems, and information assets. The discussions highlighted security practices, common cyber threats, vulnerability awareness, and the need for continuous monitoring and preventive security measures.

c) **Networking Systems:** The technical interaction provided insights into computer networking infrastructure, network components, communication systems, and the role of network management in ensuring secure and efficient data transmission.

d) **Artificial Intelligence and Emerging Technologies:** Students were introduced to the growing role of Artificial Intelligence and emerging technologies in modern IT environments, particularly their potential applications in cybersecurity, intelligent threat detection, and automation.

e) **Industry-Oriented Learning:** The visit provided an opportunity for students to understand how theoretical concepts are translated into practical applications. The interaction also helped students appreciate the importance of technical skills, problem-solving abilities, innovation, and continuous learning in the IT industry.



Fig.2. Lecturer Given by Prabhakaran Sir



Fig. 3. John Sir is explaining the hardware equipment

Student Interaction and Learning Experience

The industrial visit provided students with an opportunity to interact with industry professionals and gain insights into the practical aspects of technology development and implementation. Students were encouraged to understand the functioning of different IT systems and relate their academic knowledge to real-world industrial applications.

The interaction helped students develop a better understanding of the challenges associated with cybersecurity, networking, and data center management. It also created awareness about the importance of acquiring hands-on technical skills and staying updated with rapidly evolving technologies.

Outcomes of the Industrial Visit

The industrial visit achieved the following learning outcomes:

1. Students gained awareness of Data Center Infrastructure and its operational components.
2. Students developed a better understanding of cybersecurity practices and the importance of information security.
3. Students acquired insights into networking systems and their role in modern IT infrastructure.
4. Students understood the emerging applications of Artificial Intelligence in technology and cybersecurity.
5. Students were able to correlate theoretical concepts with practical industry applications.
6. Students gained exposure to industry expectations, professional practices, and potential career opportunities.
7. The visit motivated students to explore emerging technologies and develop industry-relevant technical competencies.




Conclusion

The one-day Industrial Visit to QUANTAWAVE CYBER R&D LAB, Bengaluru, on 29th October 2026, was a valuable learning experience for the students of the Department of Computer Science and Engineering (Cyber Security), MITS Deemed to be University. The visit provided meaningful exposure to Data Center Infrastructure, Cybersecurity, Networking Systems, Artificial Intelligence, and emerging technological practices.

The programme helped bridge the gap between academic knowledge and industrial applications while encouraging students to develop practical skills, technical awareness, and professional competencies. Such industrial visits play an important role in strengthening industry-academia interaction and preparing students to meet the evolving demands of the Cybersecurity and IT industries.

The Department expresses its sincere gratitude to the management and technical team of QUANTAWAVE CYBER R&D LAB for providing the students with this valuable learning opportunity and facilitating industry-oriented exposure.

Industry Insights, Q&A, and Career Guidance:

The visit concluded with an engaging industry insights and career guidance session, where students had the opportunity to interact directly with the technical experts and professionals of QUANTAWAVE CYBER R&D LAB. The session provided students with valuable information about the IT industry, career pathways, and the skills required to succeed in the fields of Cybersecurity, Networking, and Artificial Intelligence.

- An interactive Q&A session was conducted where students raised questions on Cybersecurity, Networking, and AI.
- Industry experts shared insights on current trends and emerging technologies in the IT sector.
- Career guidance was provided on opportunities in Cybersecurity, Data Center Management, and AI.
- Students received advice on technical certifications, internships, and skill development programs.
- Professionals shared their personal experiences and suggested practical steps for career growth.
- Students were encouraged to pursue research, innovation, and continuous learning in their respective fields.
- The session motivated students to align their academic preparation with industry expectations.

Acknowledgement:

We thank our Chancellor, Pro Chancellor, Vice Chancellor, Registrar, Principal, Vice Principal Administration, Asst. Director – Industrial Relations, Head of the Department of CSE(CS), and IRC Cell for their continuous support and for organizing this insightful industrial visit to Quanta Wave Cyber R&D Lab, Bengaluru.

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