A Report on Industrial Visit to "Quanta Wave Cyber R&D Lab" Organized by Department of Computer Applications on 12.05.2026

Report Submitted by: Mr. R. Mallikarjuna, Assistant Professor, Department of Computer Applications
Total No. of Participants: 34 Students
Mode of Conduct: Offline.
Faculties Accompanied: Dr. K. Nirmala Devi, Dr. T. Saravanan, Mr. R. Mallikarjuna from the Department of Computer Applications
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Introduction

A One-day Industrial Visit to QUANTAWAVE CYBER R&D LAB, Bengaluru was organized for the students of the Department of Computer Applications. The main purpose of the visit was to provide practical exposure to Data Center Infrastructure, Cybersecurity, Networking Systems, and modern IT industry practices.

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

Objectives of the Visit:

- To provide practical exposure to Data Center Infrastructure and Cybersecurity.
- To understand the working of servers, racks, storage, and networking systems.
- To gain knowledge about firewall systems and network security practices.
- To improve awareness about real-time industry technologies and startup work culture.
- To bridge the gap between academic learning and industry applications.
- To enhance technical knowledge and professional skills among students

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, Cloud Computing, 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 also 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.

Technical Session on Data Center Infrastructure, Cybersecurity, and AI Concepts:

A technical session on Datacentres Infrastructure, Cybersecurity, and AI concepts was conducted by Mrs. Prathima for the students. The session focused on explaining the importance of data centres, networking systems, server management, cybersecurity practices, and the role of Artificial Intelligence in modern IT industries.

She explained various components of datacentre infrastructure including servers, storage devices, networking systems, racks, firewall systems, and security management tools. Students were introduced to the fundamentals of cybersecurity, network protection, data security techniques, and AI-based technologies used in real-time applications.

The session also provided awareness about current technologies, industry requirements, and career opportunities in the fields of Networking, Cybersecurity, and Artificial Intelligence. Students actively participated in the session and clarified their technical doubts through interaction with the expert.

Exposure to Servers, Racks, Storage, and Networking Systems:

- Students were introduced to server racks and networking infrastructure used in IT industries.
- The experts explained the arrangement and functioning of servers, switches, and networking cables.
- Students observed storage systems and data management devices used in data center environments.
- Demonstration was given on network connectivity and communication between systems.
- The technical team explained cable management and server maintenance practices.
- Students gained knowledge about networking devices such as routers, switches, and firewall systems.
- The session helped students understand the practical implementation of networking and server management concepts.

Firewall Systems and Network Security Demonstration:

- Students were provided with a demonstration on firewall systems and network security management.
- The experts explained the importance of firewalls in protecting networks from cyber threats and unauthorized access.
- Students observed basic firewall operations including login access and monitoring processes.
- Demonstration was given on network traffic monitoring and security policy management.
- The technical team explained how firewall systems are connected within networking infrastructure.
- Students gained awareness about cybersecurity practices followed in professional IT environments.
- The session improved students' understanding of network protection and security management techniques.

Industry Insights, Q&A, and Career Guidance:

- An interactive session was conducted for the students on current IT industry trends and technologies.
- Students received information about career opportunities in Cybersecurity, Networking, AI, and Data Center Management.
- Guidance was provided regarding technical skill development and professional growth.
- Students clarified their doubts related to certifications, internships, and higher career opportunities.
- The session helped students understand industry expectations and workplace requirements.
- Suggestions were provided on improving communication skills, technical knowledge, and practical learning.
- Students actively participated in the discussion and interacted throughout the session.

Conclusion:

The Industrial Visit to QUANTAWAVE CYBER R&D LAB, Bengaluru was highly informative and beneficial for the students. The visit provided practical exposure to Data Center Infrastructure, Cybersecurity, Networking Systems, Firewall Management, and emerging technologies used in modern IT industries.

Students gained valuable knowledge through technical sessions, demonstrations, and interaction with industry experts. The visit helped students understand the practical applications of concepts learned in academics and improved their awareness about industry requirements and career opportunities in the fields of Cybersecurity, Networking, and Artificial Intelligence. Overall, the Industrial Visit successfully enhanced the technical knowledge, practical understanding, and professional awareness of the students.

Acknowledgement:

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

We extend our sincere thanks to Mr. John Victor, Mr. Martin, Mrs. Prathima, Mr. N.R. Solomon Jebaraj, and the entire staff of Quanta Wave Cyber R&D Lab for their support, guidance, and hospitality during the visit.