Peer Teaching Internship Report

Conducted by:

1. Abhijith S

2. Sudhev K Suresh

3. Shawn Immanuel mendaze

4. Alosious Benny

5. Aswin A

Topic: Cybersecurity Awareness and Education

Date: 17/01/2025

Time: 2:00pm-4:30pm

Venue: PANCHAYATH HIGH SCHOOL, PATHIYOOR

Introduction

The peer teaching internship program was a collaborative effort aimed at increasing awareness and understanding of cybersecurity. Conducted by a team of five participants, the program focused on educating peers about various aspects of cybersecurity, including types of cyber threats, the importance of cybersecurity, and its future trends. This report outlines the activities, methodologies, and outcomes of the internship.

Objectives

1. To provide a comprehensive understanding of cybersecurity.

2. To identify and explain different types of cyber threats.

3. To highlight the importance of adopting strong cybersecurity measures.

4. To discuss the future of cybersecurity and its implications.

5. To enhance awareness through an interactive awareness class.

Structure of the Program

Introduction to Cybersecurity

- **Facilitator:** Abhijith S
- **Key Points Covered:**

- o Definition and scope of cybersecurity.
- o Historical background and evolution of cybersecurity.
- o Real-world examples of cybersecurity breaches.

Types of Cyber Threats

- **Facilitator:** Sudhev
- **Key Points Covered:**
  - o Malware (viruses, worms, ransomware, spyware).
  - o Phishing attacks and social engineering.
  - o Denial-of-Service (DoS) attacks.
  - o Insider threats.

The Importance of Cybersecurity

- **Facilitator:** Shawn Immanuel mendaze
- **Key Points Covered:**
  - o Protecting personal and organizational data.
  - o Economic impacts of cyberattacks.
  - o Legal and ethical implications.

Future of Cybersecurity

- **Facilitator:** Aswin.A
- **Key Points Covered:**
  - o Emerging technologies in cybersecurity (AI, blockchain, quantum computing).
  - o Predictions and challenges for the next decade.
  - o Strategies for staying ahead of evolving threats.

Awareness Class

- **Facilitator:** Alosious Benny
- **Key Activities:**
  - o Interactive discussions with peers.
  - o Role-playing scenarios to simulate cyberattack responses.
  - o Distribution of educational materials, including brochures and digital guides.

Methodology

- **Interactive Lectures:** Each facilitator conducted interactive sessions with visual aids, including slides and videos.

- **Group Activities:** Engaging exercises, such as case studies and role-playing, encouraged active participation.

- **Feedback Sessions:** Feedback was collected to adapt and improve the session.

Outcomes

1. Increased awareness of cybersecurity fundamentals among peers.
2. Enhanced ability to recognize and mitigate common cyber threats.
3. Improved understanding of the future challenges and opportunities in cybersecurity.
4. Creation of a supportive environment for discussing cybersecurity issues.

Conclusion

The peer teaching internship successfully met its objectives, providing valuable insights into cybersecurity and fostering a culture of awareness. The collaborative efforts Abhijith.S, Sudhev K Suresh, Shawn Immanuel mendaze, Aswin.A, Aswin.A were instrumental in ensuring the program's success. Future initiatives could expand the scope to include hands-on training and partnerships with cybersecurity professionals.

Acknowledgments

We extend our gratitude to the organizers and participants who contributed to this program. Special thanks to our mentors for their guidance and support throughout the internship.

Signed: Abhijith.S, Sudhev K Suresh, Shawn Immanuel mendaze, Aswin.A, Alosious Benny