DTE Code : EN6315
MSBTE Code : 1739

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
POLYTECHNIC
AICTE ID : 1-8019451
AISHE Code : C-11165
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500
❍ Approved By AICTE, New Delhi ❍ Recognized by Govt. of Maharashtra & DTE, Mumbai
❍ Affiliated to Maharashtra State Board of Technical Education (E), Mumbai

Date- 23/09/2024

Request Letter

To,
The Principal,
Sanjeevan Group of Institutions-Polytechnic,
Panhala-416201.

Subject: Request for Permission for Guest Lecture on Cybersecurity

Respected Sir,

We would like to request your kind permission to organize a guest lecture on 'Cybersecurity' for our students on 27th September 2024. Given the increasing importance of cybersecurity in today's digital world, we believe this lecture will be highly beneficial for their knowledge and awareness.

We have arranged for Mr. Akshaykumar Bhore, a Cybersecurity Specialist from iValue, Mumbai, to conduct this session.

Thank you for your consideration.

Sincerely,

Guest Lecture Co-Ordinator **HOD**

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Date- 24/09/2024

NOTICE

Guest Lecture on Cybersecurity

All students are hereby informed that a guest lecture on **'Cybersecurity'** will be organized on **27th September 2024**. This lecture will provide valuable insights into the critical aspects of protecting digital information and systems.

The lecture will be delivered by **Mr. Akshaykumar Bhore**, a Cybersecurity Specialist from iValue, Mumbai.

Date: 27th September 2024

Time: 11:00 am

Venue: Classroom No. 109

All interested students are encouraged to attend this informative session.

Guest Lecture Co-Ordinator **HOD**

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Date- 01/10/2024

One-Page Report on Guest Lecture on Cybersecurity

Date of Program: 27th September 2024
Venue: Classroom No. 106
Resource Person: Mr. Akshaykumar Bhore

Overview:
A guest lecture was conducted for the Computer Science and Engineering Diploma students, focusing on the increasing importance of cybersecurity in modern digital systems. The lecture covered topics such as cyber threats, vulnerabilities, and security protocols.

Key Takeaways:
The lecture emphasized the critical need for computer science professionals to possess a strong understanding of cybersecurity principles. Modern digital systems are increasingly interconnected and vulnerable to cyberattacks, which can lead to significant data breaches and system failures.

Gap Identification in Computer Science and Engineering Curriculum:
Based on the lecture, the following gaps were identified within the existing diploma curriculum:

- **Lack of dedicated cybersecurity modules**: The curriculum primarily focuses on core computer science concepts, with limited coverage of cybersecurity.
- **Insufficient integration of cybersecurity into existing subjects:** While subjects like "Computer Networks," "Database Management System," and "Web Development" touch upon related technologies, they lack a dedicated cybersecurity perspective.
- **Limited hands-on training on cybersecurity tools and techniques:** Students need practical experience in securing systems and responding to cyber threats.

Specific Subject Gap Analysis:
Here's how cybersecurity integration can enhance existing Computer Science and Engineering subjects:

- **Computer Networks:**
  - Gap: Insufficient focus on network security protocols, firewall configuration, and intrusion detection systems.

- Integration: Incorporate modules on network security best practices, secure network design, and common network attacks.

- **Database Management System:**
  - Gap: Lack of discussion on database security, SQL injection attacks, and data encryption.
  - Integration: Add sections on secure database design, access control, and data integrity.

- **Web Development:**
  - Gap: Insufficient focus on web application security, cross-site scripting (XSS), and authentication vulnerabilities.
  - Integration: Incorporate modules on secure coding practices for web applications, input validation, and secure session management.

- **Operating Systems (e.g., Linux Basics):**
  - Gap: Limited coverage of operating system security, access control, and security hardening.
  - Integration: Add modules on Linux security principles, user permissions, and security configurations.

- **Programming Languages (e.g., Java Programming, Python Programming, C++):**
  - Gap: Lack of focus on secure coding practices, buffer overflows, and input validation.
  - Integration: Incorporate secure coding guidelines, vulnerability analysis, and secure development lifecycle principles.

- **UI/UX:**
  - Gap: Excluding security considerations in user interface design, such as secure authentication and authorization processes.
  - Integration: Include security best practices for UI design, focusing on secure input methods and preventing phishing.

- **Data Structures using C:**
  - Gap: Vulnerabilities arising from improper memory management and data handling in C.

- Integration: Emphasize secure memory allocation, preventing buffer overflows, and secure data handling practices.

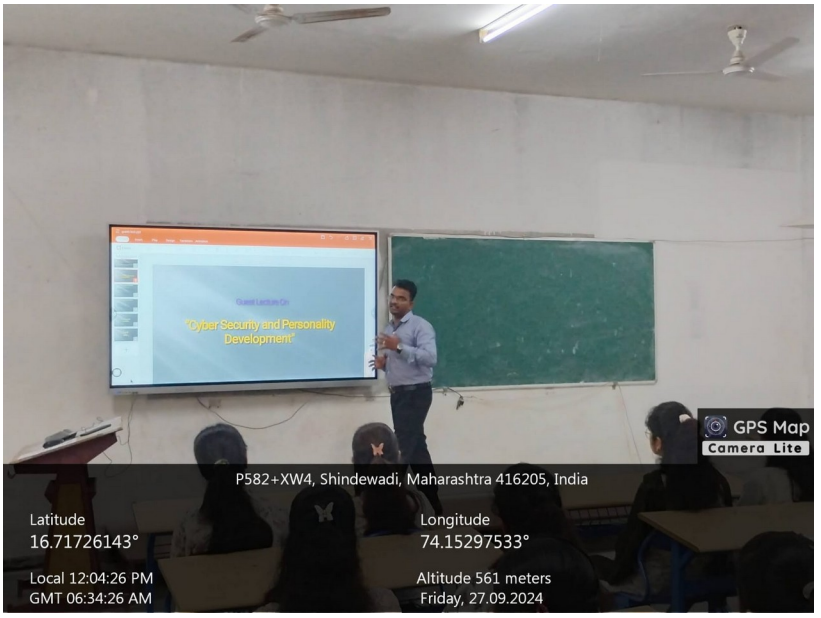
- **Capstone Project Presentation:**
  - Gap: Projects often lack a cybersecurity component.
  - Integration: Encourage students to incorporate security considerations into their projects.

Recommendations:

- Integrate cybersecurity modules into existing subjects.
- Introduce a dedicated cybersecurity elective.
- Provide hands-on training on cybersecurity tools and techniques.
- Encourage collaboration with cybersecurity experts.

Photos:

Mr. Bhore Expaining What is Cyber Security



Mr. Bhore Explaining Types of Cyber Security Attacks and Prevention

Question Answer Session related to Cybersecurity

Guest Lecture Co-Ordinator **HOD**