



**SINDHI COLLEGE**

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**#33/2B, Kempapura, Hebbal, Bengaluru - 560024**  
**Permanently Affiliated to Bengaluru City University**  
**Approved by AICTE, NAAC Re-accredited**

**Ph.no: 080-23637544 E-mail: mail@sindhicollege.com**

## **17.Cyber Security Measures**

**To create awareness regarding cyber security, institution has organized following activities**

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## **Anti- Drug and Cyber Crime Awareness Programme**

Date & Time of the Programme	17 <sup>th</sup> March 2025
Type of the Programme co-curricular /extra-curricular/ cultural/sports/NSS/NCC/Industry-Institut e Interactive/ Extension Activities/ Outreach/Capacity building/ others)	Capacity building activity
Name of the activity	Anti- Drug Awareness Campaign
Class and semester	II and IV semester B.Com, BBA, BCA, BSc and BA students
Total No. of students	250 students
Programme In charge	Prof. Raju H. S.
Collaboration :	Bangalore City Police and Arohan Foundation
Objective :	<ul style="list-style-type: none"><li>● To create awareness among students about the ill-effects of drugs</li><li>● To become more responsible spread the message against the use of drugs</li><li>● Awareness Campaign against Digital threats and cyber crime</li></ul>
Issues / Key factors addressed :	<ul style="list-style-type: none"><li>● Organizing and reaching out to the students on the subject was challenging</li><li>● Creating the appropriate ambience</li></ul>
Impact/ Outcome :	<ul style="list-style-type: none"><li>● The entire session was meaningful and students could relate very well</li><li>● Q &amp; A session was thought provoking</li></ul>

## Photographs



## **Anti-Drug and Cyber-Crime Awareness Campaign Sparks Unity Against Crime**

The Bangalore City Police, in collaboration with the Aarohan Foundation, organized an impactful Anti-Drug and Cyber-Crime Awareness Campaign at Sindhi College, Bangalore, on 17th March 2025. The initiative aimed to educate students and the public on the growing threats of substance abuse and cybercrime while encouraging collective efforts to create a safer society.

With the theme "All for Nation," the event stressed youth participation in safeguarding national safety. It featured interactive sessions with expert insights on digital security, drug de-addiction strategies, and real-life case studies of cyber fraud. These discussions equipped students with vital knowledge to stay vigilant and avoid falling victim to such challenges.

Mr. Vinay kicked off the session by engaging the audience with thought-provoking questions on revenue-generating industries, sparking curiosity and setting the stage for a dynamic dialogue on the societal and economic factors fueling cybercrime and substance abuse.

The event showcased real-world cases of cyber fraud and the consequences of drug abuse, emphasizing the importance of vigilance and responsible behavior. A Q&A session allowed students to raise concerns and receive expert guidance on tackling cyber threats and substance abuse effectively.

Organizers expressed optimism that such initiatives would foster a sense of responsibility among the youth, encouraging proactive steps towards a crime-free future. The gathering concluded on a patriotic note, with attendees uniting to sing the National Anthem, reinforcing the spirit of unity and responsibility in protecting the nation.

Efforts like these remain crucial in empowering the next generation to combat crime and build a more informed and resilient society.

## **DEPARTMENT OF COMPUTER SCIENCE & ELECTRONICS**

### **Industrial Visit 2024-25**

**[Department Of Computer Science & Electronics]**

**[Industrial Visit to Data Mites]**

Date & Time of the Programme	19-03-25
Type of the Programme (co-curricular /extra-curricular/ cultural/sports/NSS/NCC/Industry-Instit ute Interactive/ Extension Activities/ Outreach/Capacity building/ others)	<b>Industry-Institute Interactive</b> -Industrial Visit
Class	II Year BCA A, C Sections & II Year BSc
Total No. of Students	120 students
Programme In charge	Prof.Hemalatha, Prof.Akilandeswari, Prof.Poornima & Prof.Shashi Kumar
Collaboration :	Data Mites, Electronic City
Objective :	To know AI& ML and Cyber Security and the career opportunities associated with it.
Issues / Key factors addressed :	<ul style="list-style-type: none"><li>• Data Security</li><li>• Ethical Concerns</li><li>• Challenges of AI &amp; ML</li><li>• Challenges of Cyber security</li><li>• Cyber security tools</li><li>• Cyber attacks</li></ul>
Impact/ Outcome :	<ul style="list-style-type: none"><li>• Improved Decision making</li><li>• Increased Efficiency</li><li>• The development of new technologies and applications across various</li></ul>

industries, from health care to manufacturing.

## Photographs





## [Department Of Computer Science & Electronics]

### [Industrial Visit to Data Mites]

Date & Time of the Programme	20-03-25
Type of the Programme (co-curricular /extra-curricular/ cultural/sports/NSS/NCC/Industry-Instit ute Interactive/ Extension Activities/ Outreach/Capacity building/ others)	<b>Industry-Institute Interactive</b> -Industrial Visit
Class	II Year BCA B Sections
Total No. of Students	60 students
Programme In charge	Prof.Priya Hari & Prof.Pallavi GN
Collaboration :	Data Mites, Electronic City
Objective :	To know AI& ML and Cyber Security and the career opportunities associated with it.
Issues / Key factors addressed :	<ul style="list-style-type: none"> <li>● Data Security</li> <li>● Ethical Concerns</li> <li>● Challenges of AI &amp; ML</li> <li>● Challenges of Cyber security</li> <li>● Cyber security tools</li> <li>● Cyber attacks</li> </ul>

Impact/ Outcome :	<ul style="list-style-type: none"> <li>• Improved Decision making</li> <li>• Increased Efficiency</li> <li>• The development of new technologies and applications across various industries, from health care to manufacturing.</li> </ul>
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Photographs	
 <p>20 Mar 2025 at 1:00:38 PM Bengaluru 560068 Karnataka India Garvebhavi Palya</p>	 <p>20 Mar 2025 12:54:14 pm Muneshwara Nagar Bengaluru Bangalore Division Karnataka</p>
 <p>Applied AI &amp; Machine Learning Bootcamp</p> <p>20 Mar 2025 11:21:35 am 25 Bengaluru - Chennai Highway Garvebhavi Palya Bengaluru Bangalore Division Karnataka</p>	 <p>End-to-end Cycle of a Project</p> <p>20 Mar 2025 11:41:30 am 25 Bengaluru - Chennai Highway Garvebhavi Palya Bengaluru Bangalore Division Karnataka</p>

## **Department of Computer Science & Electronics**

### **Industrial Visit Report**

Sindhi College , Kempapura organized a two days Industrial Visit to Data mites, Electronic City Bangalore. The visit was scheduled for two days, where the II Year BCA & B. Sc students were selected to visit the company.

The first day ie, on 19<sup>th</sup> March 2025 II Year BCA A ,C Section along with II Year B.Sc students have visited the company. They reached the company by 11.45 AM and the visit started at 12.00 PM. They were accompanied by 4 faculties, Prof.Hemalatha R, Prof.Akilandeswari R,Prof.Poornima G and Prof.Shashi Kumara. A total of 120 students attended the visit on the first day.

The second day ie, on 20<sup>th</sup> March 2025 II Year BCA B section along with the faculties Prof.Priya Hari & Prof. Pallavi G N had visited the company around 11 AM. Second day 60 students have visited the company.

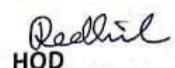
The visit was mainly focused on the features of Artificial Intelligence & Machine Learning. *The key factors addressed was*

- Data Security
- Cyber security application
- Ethical Concerns
- Challenges of AI & ML
- Career opportunities with Cyber Security

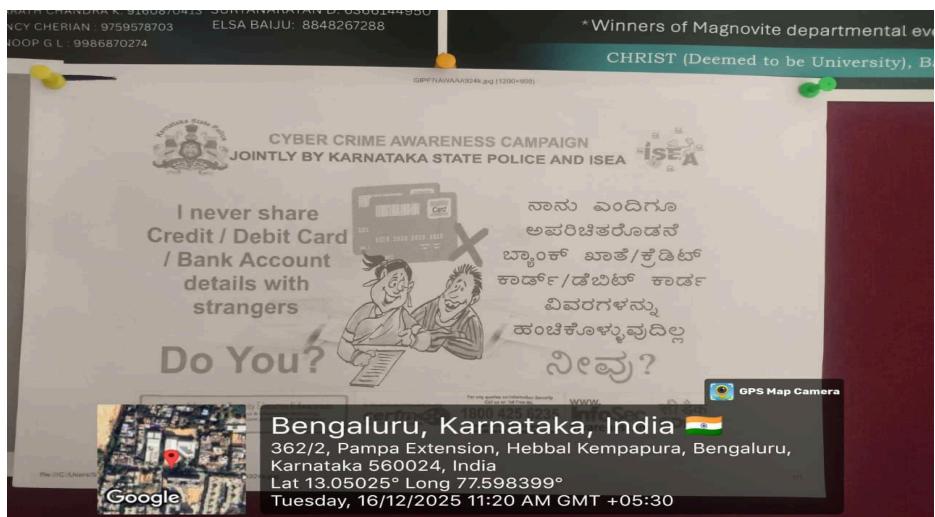
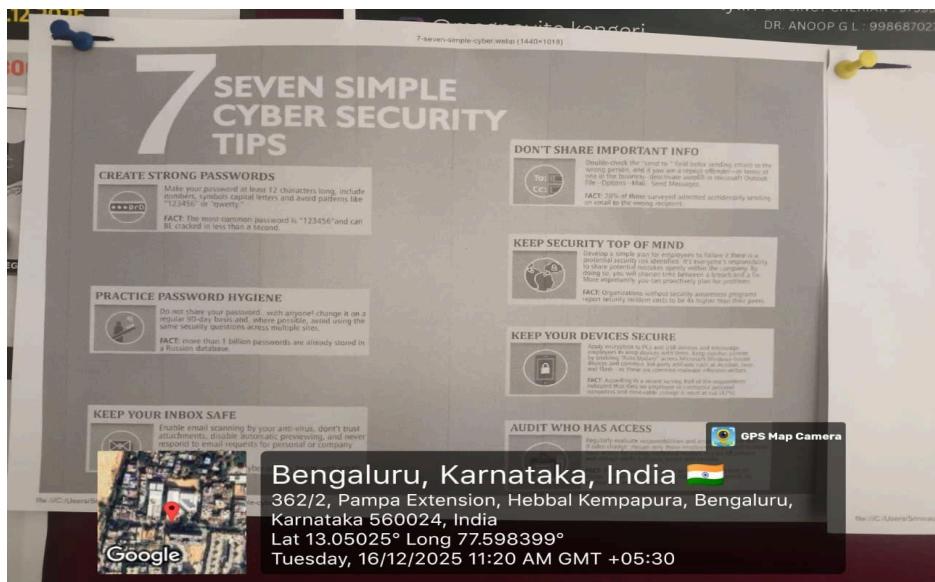
The outcome of the Visit:Students gained Knowledge in

- Improved Decision making skills using AIML
- Increased Efficiency
- Vulnerability management
- Network analysis and web security
- The development of new technologies and applications in cyber security.
- Better Security Practices
- Increased Threat Awareness

Overall the visit was successful.

  
HOD

## Cybersecurity Safety Measures – Awareness Display



To enhance awareness regarding prevalent digital dangers, a series of educational posters were strategically placed on company noticeboards. These displays provided critical, easily digestible information on various cyber threats.

## BCU CYBER SECURITY SYLLABUS [II Year BCA]

Theory		24BCA34: Cyber Security	
Teaching Hours : 02 Hours/Week		Credits : 02	
Duration of Exam : 1.5 Hours		Maximum Marks : 50 (Exam 40 + IA 10)	

### Course Outcomes

COs	Description
CO1	Understand the fundamentals of cyber security, types of cyber threats and adopt safe internet practices and responsible digital behavior.
CO2	Understand the basic concepts of cryptography, encryption techniques, password security and secure communication protocols used for data protection.
CO3	Apply system and personal security measures to protect devices and data from threats, vulnerabilities and online attacks.

### **Unit I – Fundamentals of Cyber Security & Secure Communication                    14 Hours**

**Introduction to Cyber Security:** Importance of cyber safety in the digital world, Common types of cyber threats: viruses, worms, trojans, phishing, ransomware, fake websites, social engineering, Real-life examples of cyber attacks. **Goals of Cyber Security:** Confidentiality, Integrity, Availability (CIA Triad), Difference between threats, vulnerabilities, and risks. **Security Concepts and Terminology:** Firewall, antivirus, malware, hacking. **Safe Internet Practices:** Responsible digital behaviour, Secure browsing and identifying fake/unsafe websites, Email safety: detecting phishing and spam, Use of public Wi-Fi and avoiding data leaks. **Introduction to Cryptography and Secure Communication:** Purpose of encryption and decryption, Difference between symmetric and asymmetric encryption, Role of HTTPS and SSL, Two-Factor Authentication (2FA), OTP-based logins, Importance of secure messaging and email

### **Unit II – System, Personal, and Device Security Practices                    14 Hours**

**System and Device Security Basics:** Operating System security basics, User authentication and access control, Password policies and best practices, Antivirus and anti-malware software. **Web and App Security:** Common web security issues: SQL injection, XSS, CSRF (overview only), Mobile app security – permissions and safe usage, Safe use of mobile devices, laptops, and social media, Software updates and patch management. **Network and Online Protection:** Introduction to firewalls and VPNs, Risks of pop-ups, cookies, and online tracking, Safe and responsible data sharing online

#### **TEXT BOOK:**

1. Chirag Shah (2018). A Hands-On Introduction to Cybersecurity. Wiley.

#### **REFERENCE BOOKS:**

1. Nina Godbole & Sunit Belapure (2011). Cyber Security: Understanding Cyber Crimes, Computer Forensics and Legal Perspectives. Wiley India.
2. Rao, U. & Nayak, P. (2014). Cyber Security. Cengage Learning.
- Moeti J. (2021). Cybersecurity for Beginners. Amazon Digital Services (for simple reading-level coverage).

# FIREWALL



The primary purpose of implementing a firewall in the college network is to establish a secure barrier between the internal, trusted network (LAN) and external, untrusted networks (the Internet). This measure is essential to protect the college's sensitive data, IT infrastructure, and users from a wide range of external and internal cyber threats, including unauthorized access, malware infections, and denial-of-service (DoS) attacks.