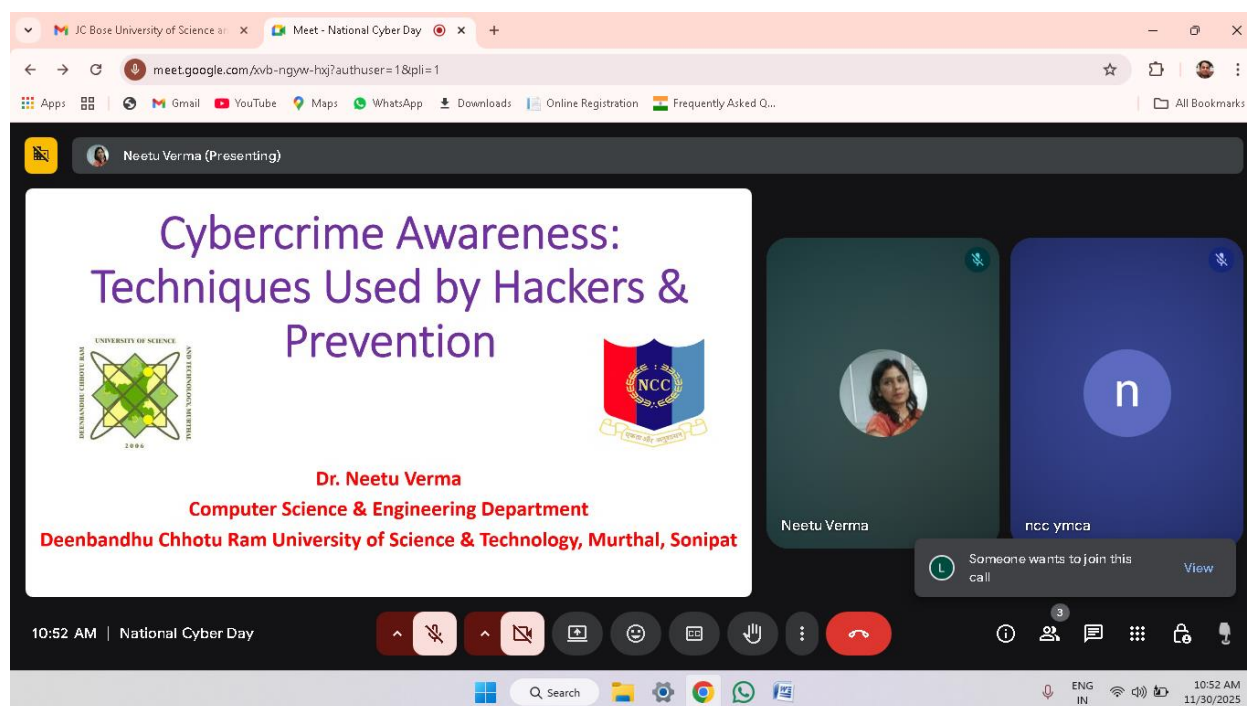# National Cyber Day

1. Institute: J. C. Bose University of Science & Technology, YMCA, Faridabad

2. Activity: Expert Lecture

3. Date of Activity: 30 November 2025

4. Report: An expert lecture was organized in online mode, observing "National Cyber Day" on 30.11.2025 for NCC cadets. Dr. Neetu Verma of Computer Engineering Department from Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat was resource person of the lecture. She explained the technical issues related to cybercrimes and its preventive measures. Cadets actively attended the session and raise their queries with the issues like Cyber security, Digital arrest etc. which were answered by the speaker very well in detail.

S.N	Name of Activity	Date of Activity	Location	Strength			Remarks
				Cdt	ANO	PI Staff	
1.	Expert Lecture on Cybercrime Awareness: Techniques Used by Hackers	30.11.2025	J. C. Bose University YMCA Faridabad	35	01	--	

5. Photographs:

Neetu Verma (Presenting)

Cybercrime Awareness: Techniques Used by Hackers & Prevention

Dr. Neetu Verma
Computer Science & Engineering Department
Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonipat

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Vishal Rawat

Neetu Verma

Laxmi bhardwaj

K

Kritika

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Neetu Verma (Presenting)

Types of Cyber Security

1. Network Security

It focuses on securing computer networks from unauthorized access, data breaches, and other network-based threats. This involves implementing technologies such as **Firewalls**, **Intrusion detection systems (IDS)**, **Virtual Private Networks** (VPNs), and **Network Segmentation** as well as deploying antivirus software.

•Using public Wi-Fi in locations like cafes and malls poses significant security risks. Malicious actors on the same network can potentially intercept your online activity, including sensitive information. If you use payment gateways on these unsecured networks, your financial data could be compromised because these open networks don't have proper **security layers**, which means anyone—even hackers—can watch what you're doing online.

•So, use a **secure private network** or VPN to protect your **internal network** from outside threats

Key features of network security:
•Network monitoring and management tools
•Access control and authentication systems
•Data encryption and decryption methods
•Firewall technology
•Regular security audits

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Neetu Verma

Laxmi bhardwaj

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krishan kumar {Presenting}

Worms: Self-replicating malware that can spread across networks without user involvement. A computer worm is a **standalone, self-replicating type of malware** that spreads across networks without needing a host program or user intervention. Unlike viruses, worms operate independently and can infect many systems rapidly by exploiting security vulnerabilities

It can propagate on its own, using email attachments, instant messaging, file-sharing networks, and network exploits as methods of transmission. Worms can cause harm by consuming network bandwidth, stealing data, deleting files, and disrupting systems.

Impact of worms
•**System disruption:** They can consume large amounts of bandwidth, overload systems, and lead to slow performance or crashes.
•**Data theft:** They can steal sensitive information like login details and financial data.
•**Backdoor creation:** They may install backdoors to give attackers unauthorized access to infected systems.

How Worm Attacks Work

LINPROFS

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Nitish kumar

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krishan kumar {Presenting}

Digital arrest is a type of cybersecurity scam where fraudsters impersonate law enforcement or government officials to extort money from victims by creating a false sense of urgency and fear. Scammers use fake caller IDs, elaborate video calls that mimic official settings, and false accusations of serious crimes like money laundering to pressure victims into making a financial payment to avoid a fake arrest warrant. Victims are subjected to 'digital arrest,' where they are forced to stay on video calls often over Skype and WhatsApp with the scammers until their demands are met. These scammers create a fake setup of police station to make the victim believe that they are actual law enforcement officers.

Digital arrest: Some victims are subjected to 'digital arrest,' where they are forced to stay on video calls often over Skype and WhatsApp with the scammers until their demands are met. These scammers create a fake setup of police station to make the victim believe that they are actual law enforcement officers.

"DIGITAL ARREST" MENACE

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