DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
DRIEMS UNIVERSITY, TANGI, CUTTACK.

SEMINAR and TECHNICAL WRITTING

Topic   :   **WIRELESS SECURITY**
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Abstract : Wireless security refers to the protection of wireless networks and devices from unauthorized access, data breaches, and other cyber threats. With the growing use of Wi-Fi, Bluetooth, and mobile networks, securing wireless communication has become more important than ever. Wireless networks are more vulnerable than wired ones because data travels through the air and can be intercepted by attackers. Common threats include eavesdropping, signal jamming, spoofing, and unauthorized access points. To prevent these attacks, wireless security uses various methods like encryption (e.g., WPA3), strong passwords, firewalls, and secure authentication methods. Regular updates and monitoring also play a key role in keeping networks safe. Organizations and individuals must be aware of these risks and follow best practices to protect their personal and professional data. Overall, wireless security ensures safe and reliable communication over the air, helping users maintain privacy, prevent data loss, and avoid system damage. As technology continues to evolve, improving wireless security will remain a crucial task.

Keywords : Encryption, Authentication, Eavesdropping ,WPA3, Wireless network

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