GUJARAT TECHNOLOGY UNIVERSITY

NATIONAL SERVICE SCHEME

A Seminar on *Emerging Trends in Cyber Security* held by

Vidyabharti Trust College of Master in Computer Application (MCA, MBA & IMSc.IT), Umrakh

Approved by AICTE, New Delhi and Affiliated to GTU, Ahmedabad.

NSS Unit Name/College Name: VBTMCA, Umrakh

Event Name: Seminar on Emerging Trends in Cyber Security

Faculty Name: Dr. Ankit Patel

Event Date, Time and Location: 12th February 2025 , M2 Classroom

On 12th February 2025, Vidyabharti Trust College of MCA, Umrakh, Bardoli, organized a seminar on "Emerging Trends in Cyber Security" for IMSc.IT students of Semester 2 and Semester 4. The seminar aimed to provide insights into the latest advancements and challenges in the field of cybersecurity, equipping students with knowledge about contemporary threats and protective measures.





E-Mail: admin@vbtmca.ac.in | Web : www.vbtmca.ac.in | Ph. : 02622-224581 | Fax : 02622-227481,225458
Vidyabharti Campus, At & Po. Baben, Taluka : Bardoli, District : Surat, Pin code : 394601, Gujarat, India

The session was conducted by Dr. Ankit Patel, Associate Professor at Vidyabharti Trust College of MCA, Umrakh, Bardoli. He commenced the seminar by emphasizing the growing importance of cybersecurity in today's digital world. He highlighted the increasing number of cyber threats, including phishing, ransomware, and data breaches, which pose significant risks to individuals and organizations alike.

Dr. Patel elaborated on various emerging trends in cybersecurity, such as artificial intelligence (AI) in threat detection, zero-trust architecture, blockchain security applications, and quantum cryptography. He discussed how AI is revolutionizing cybersecurity by enabling proactive threat identification and automated incident response. Additionally, he explained the significance of adopting a zero-trust approach to enhance network security by verifying every user and device before granting access.

The seminar also covered the role of blockchain technology in securing digital transactions and preventing fraud. Dr. Patel provided real-world examples to illustrate how blockchain enhances transparency and integrity in financial and data-sharing systems. He further introduced the concept of quantum cryptography, which is set to redefine encryption standards and make cyber defenses more robust against future threats.





Students actively participated in the discussion, raising queries about the practical implementation of these technologies and career opportunities in cybersecurity. Dr. Patel

addressed their concerns and encouraged them to develop skills in ethical hacking, penetration testing, and risk assessment to build a strong foundation in the field.

The session concluded with a vote of thanks, acknowledging Dr. Ankit Patel's valuable insights and the college administration for organizing the seminar. The event proved to be an enlightening experience for students, enhancing their awareness of cybersecurity trends and inspiring them to explore this dynamic and ever-evolving domain.