

3rd Cyber Awareness Day_Webinar_Report

1 message

Mr.Mohd Haleem <haleem@iul.ac.in>

To: Head Computer Application <headca@iul.ac.in>

Cc: Ahmad Neyaz Khan <ankhan@iul.ac.in>

Fri, Mar 4, 2022 at 12:04 PM



A Brief Report On
THIRD
CYBER AWARENESS DAY
ORGANIZED
BY
DEPARTMENT OF COMPUTER APPLICATION
INTEGRAL UNIVERSITY, LUCKNOW
UNDER THE AGIES OF
HIGHER EDUCATION DEPARTMENT, UTTAR PRADESH

As per the directives of the **UP Higher Education department**, the first Wednesday of every month has to be observed as "**Cyber Awareness Day**". Thus, the Department of Computer Application, Integral University, Lucknow, in continuation of the initiative of the Uttar Pradesh Higher Education department, has observed **March 2, 2022 (Wednesday) as the third "Cyber Awareness Day"**.

The department of computer application has organized a webinar on "*Concept and Use of Cyber Hygiene in Daily Life*" at the university level on **March 2nd, 2022, from 11:00 AM to 12:00 PM** in virtual mode under the flagship of the Cyber Awareness Day Programme.

The competition was organized to enhance awareness about the "*Concept and Use of Cyber Hygiene in Daily Life*" which included the important themes:

- How to provide security for information about individuals and their personal lives stored on online networks and secure servers?
- Different types of cyber attacks and ways to deal with them.
- Various ways to ensure the security of companies and organizations, particularly those dealing with information connected to national security, health, or financial records, must make efforts to protect their sensitive business and personal information.

The webinar was conducted in online mode using the Google Meet Platform, in which students, research scholars, faculty members, and supporting staff members participated.

The programme was hosted by **Dr. Ahmad Neyaz Khan**, who gave a brief introduction of the guest speaker, **Dr. Rifaqat Ali, Assistant Professor, NIT, Hamirpur**. The session began with a discussion about the "Role of Cryptographic Techniques to Defend Modern Security Threats" to the digital world.

The webinar concluded with a question and answer session. Dr. Rifaqat Ali satisfactorily answered all questions related to cyber security.

The webinar had a huge response, with 259 participants from students, faculty, and other staff from different colleges and universities attended the program.

Mr. Mohd. Haleem and Dr. Ahmad Neyaz Khan coordinated the event successfully.

Cryptography:

- The field of study related to encoded information (Greek word "secret writing")
- Cryptology** = **cryptography** + **cryptanalysis**
- Cryptography = the science (art) of encryption
- Cryptanalysis = the science (art) of breaking encryption
- Plaintext:** readable format
- Ciphertext:** un-readable format
- Encryption:** The process of converting from plaintext into ciphertext.
- Decryption:** The process of converting from ciphertext into plaintext.
- Cipher:** An algorithm used to encrypt and decrypt text.
- Key:** It is a group of bits which is used for encryption and decryption process.

Cryptanalysis:

- Brute force:** try every key
- Ciphertext-only attack:**
 - Attacker knows ciphertext of several messages encrypted with same key (but doesn't know plaintext).
 - Possible to recover plaintext (also possible to deduce key) by looking at frequency of ciphertext letters.
- Known-plaintext attack:**
 - Attacker observes pairs of plaintext/ciphertext encrypted with same key.
 - Possible to deduce key and/or devise algorithm to decrypt ciphertext.
- Chosen-plaintext attack:**
 - Attacker can choose the plaintext and look at the paired ciphertext.
 - Attacker has more control than known-plaintext attack and may be able to gain more info about key.
- Adaptive Chosen-Plaintext attack:**
 - Attacker chooses a series of plaintexts, basing the next plaintext on the result of previous encryption.

--
 Thanks & Regards
 Mr. Mohd Haleem
 Assistant Professor
 Department of Computer Application

7/5/22, 1:16 PM

IU Mail - 3rd Cyber Awareness Day_Webinar_Report

Integral University
Kursi Road, Lucknow 226026
Email: haleem@iul.ac.in
Mobile No. 9452700202