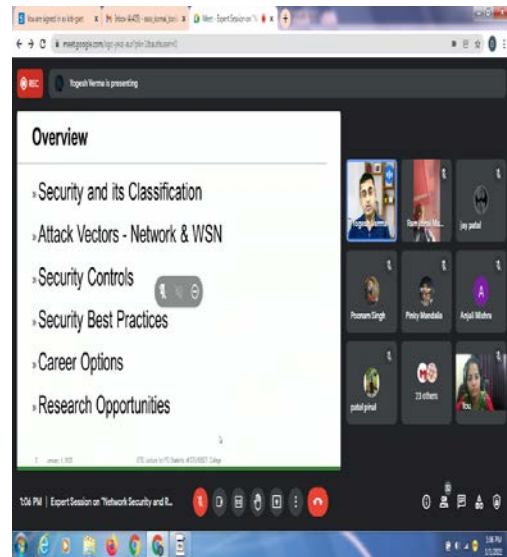
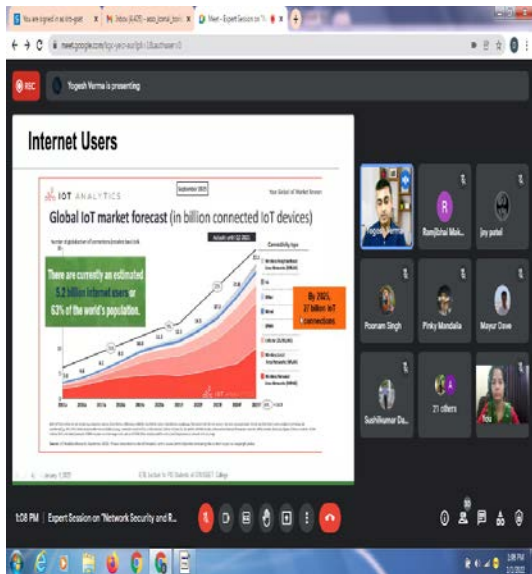
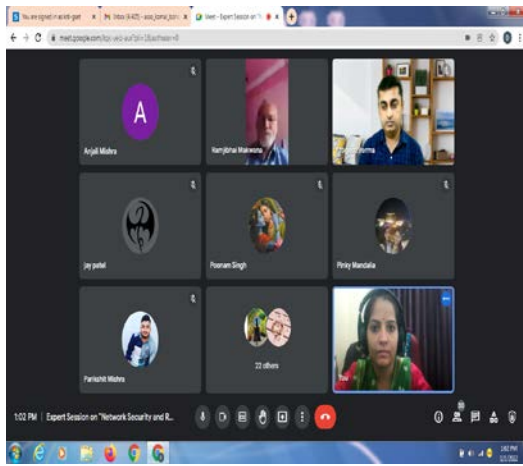


Gujarat Technological University Graduate School of Engineering and Technology

GTU GSET has organized one expert session on 1.1.2022 on “Network Security and Research Opportunities” in association with IETE Ahmadabad. Dr Yogesh Verma (Senior Scientist, SCI/ENG-SF, PPG-ITND, SAC ISRO, Ahmadabad) was the expert who had conducted the session. During session various types of networks, security issues, different types of attack, wireless sensor networks and its securities, IoT networks, data sanitization along with possible research opportunities have been discussed in detail. Along with research carrier opportunities also were discussed. More than 50 participants have joined the session from GTU-GSET as well from the various colleges and industries.



meet.google.com/kgc-yeiz-aur?pli=1&authuser=0

REC | Yogesh Verma is presenting

Wireless Sensor Networks

- » **WSN Limitations:**
 - » Processing power, Resources, Bandwidth
 - » Delay in transmission
 - » Remote sites and unattended setups
- » **WSN Applications:**
 - » Industry (Biometric, Environmental Sector)
 - » Society (Smart Cities, Parking)
 - » Wildlife and Environment Protection, etc

Source: www2.ecs.siuho-state.edu; ndpi.com

REC | 1:56 PM | Expert Session on "Network Security and R..."

1:56 PM 1/1/2022

meet.google.com/kgc-yeiz-aur?pli=1&authuser=0

REC | Yogesh Verma is presenting

WSN Security Requirements

Levels of Security- Data, Node, NW and OS Levels.

Freshness- Time specific counter should be added to ensure the freshness of data.

Traditional Cryptography, AES, RSA will not work easily, as it is self-organizing.

Secure Localizations- Geo-tagged nodes and otherwise replay attack is possible.

Denial-of-Sleep attacks- Consume energy on unwanted or bad packets.

Source: NPTEL, IJCS_44_2_02

REC | 1:57 PM | Expert Session on "Network Security and R..."

1:57 PM 1/1/2022

meet.google.com/kgc-yeiz-aur?pli=1&authuser=0

REC Yogesh Verma is presenting

WSN Attacks

1:58 PM | Expert Session on "Network Security and R..."

meet.google.com/kgc-yeiz-aur?pli=1&authuser=0

REC Yogesh Verma is presenting

CAREER OPTIONS

- » Security Architect
- » Network Security Engineer
- » Ethical Hackers
- » NW or System or Data Centre Administrator
- » Software Developer
- » Security Tester
- » Security Auditor (OWASP, ISO/IEC 27001/2)
- » Forensic Analyst
- » OT/ICS/SCADA Security Specialists
- » Researcher or an Educator

» Kiritkumar Mehta has raised a hand [Open queue](#)

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends.

Kiritkumar Mehta 2:08 PM
Good afternoon all members. Wishing you ou all a happy new year 2022. K K Mehta, Retd Sci Engr SF, SAC ISRO Ahmedabad and Ex Hon Treasurer, IETE , Ahmedabad (Years 2016-2020)

You 2:15 PM
yes sir
please put queries in chat box
so we can discuss

Send a message to everyone

2:17 PM | Expert Session on "Network Security and R..."