RajaRajeswari College of Engineering
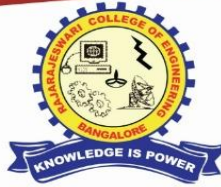
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[IoT, Cybersecurity including Blockchain Technology]

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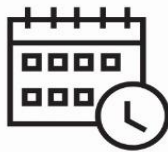**An Autonomous Institution**

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Department of Computer Science and Engineering (IC)

Organizing Webinar on

"Cybersecurity for NextGen Defenders"

09ᵗʰ Sep 2025
11.00 AM to 12.30 PM
Hybrid Mode

Speaker
Mr. Yoram Orzach
CTO, NDI Communications, Israel

Co-Ordinators:
All staff members - CSE (IC)

Dr. Shashidhar V	Dr. R. Balakrishna
HoD–CSE(IC)	Principal, RRCE

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📍 No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bangalore

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Department of Computer Science & Engineering
[IoT, Cybersecurity including Blockchain Technology]

Report on webinar on "Cyersecurity for NextGen Defenders"

Name of the Department: Dept. of CSE[IoT, Cybersecurity including Blockchain Technology]

1. **Type of Event:**   Webinar on "Cyersecurity for NextGen Defenders"

2. **Venue:**   Hybrid Mode

3. **Date & Time:**   09.09.2025, 11.00AM to 12.30PM

4. **Resource Person:**   Mr. Yoram Orzach, CTO, NDI Communications, Israel

5. **Staff Coordinators:**   All Staff Members

6. **Students attended:**   5th Semester (63 students)

7. **Outcome of the Progamme:**

1. Introduction

The webinar titled "Cybersecurity for NextGen Defender" focused on the evolving landscape of digital threats and the skills required to protect modern technological infrastructures. The session aimed to equip students, IT professionals, and aspiring cybersecurity specialists with essential knowledge about current cyberattack trends, defense mechanisms, and career pathways in cybersecurity.

2. Objectives of the Webinar

The main objectives included:

- Understanding modern cybersecurity threats and vulnerabilities
- Exploring cybersecurity tools, frameworks, and best practices
- Highlighting the role of AI and automation in cyber defense
- Guiding NextGen defenders on career development and certifications
- Discussing incident response, digital forensics, and ethical hacking practices

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3. Key Topics Covered

3.1 Cyber Threat Landscape

The speaker discussed the rise of sophisticated attacks such as ransomware, phishing-as-a-service, AI-driven malware, and supply chain attacks. Real-world case studies demonstrated how cybercriminals exploit vulnerabilities in cloud systems, IoT devices, and mobile platforms.

3.2 Defensive Security Strategies

Participants were introduced to core defensive approaches including:

- Zero Trust Architecture
- Multi-Factor Authentication (MFA)
- Network segmentation
- Patch management
- SIEM (Security Information and Event Management)
- Threat hunting methodologies

3.3 Role of AI and Machine Learning

The webinar highlighted how AI enhances cybersecurity through automated threat detection, anomaly detection, behavior analytics, and predictive modeling. At the same time, the risks of adversarial AI attacks were discussed.

3.4 Ethical Hacking and Penetration Testing

The presenter demonstrated basic penetration testing tools and methodologies, such as:

- Nmap
- Metasploit
- Burp Suite
- Wireshark

Emphasis was placed on responsible disclosure and legal considerations.

3.5 Career Pathways for NextGen Defenders

The session provided guidance on building cybersecurity careers, including recommended certifications:

- CompTIA Security+

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- CEH (Certified Ethical Hacker)
- CISSP
- OSCP
- Google Cybersecurity Certificate

Soft skills such as problem-solving, analytical thinking, teamwork, and documentation were also highlighted.

4. Interactive Session

During the Q&A, participants asked about:

- How to start a career with no prior experience
- Which programming languages (Python, Bash, JavaScript) are most useful
- How AI will impact future job roles
- Ways to secure personal devices and digital identities

The speaker provided practical, actionable advice and shared hands-on resources for self-learning.

5. Key Takeaways

- Cyber threats are evolving rapidly; continuous learning is essential.
- AI is transforming both cyber defense and cybercrime.
- A strong foundation in networking, operating systems, and security frameworks is crucial.
- Ethical hacking and incident response skills are highly valuable in the current job market.
- NextGen defenders should combine technical and soft skills to stay agile and effective.

6. Conclusion

The webinar was highly informative and provided a clear overview of the cybersecurity domain from both technical and career perspectives. It successfully empowered
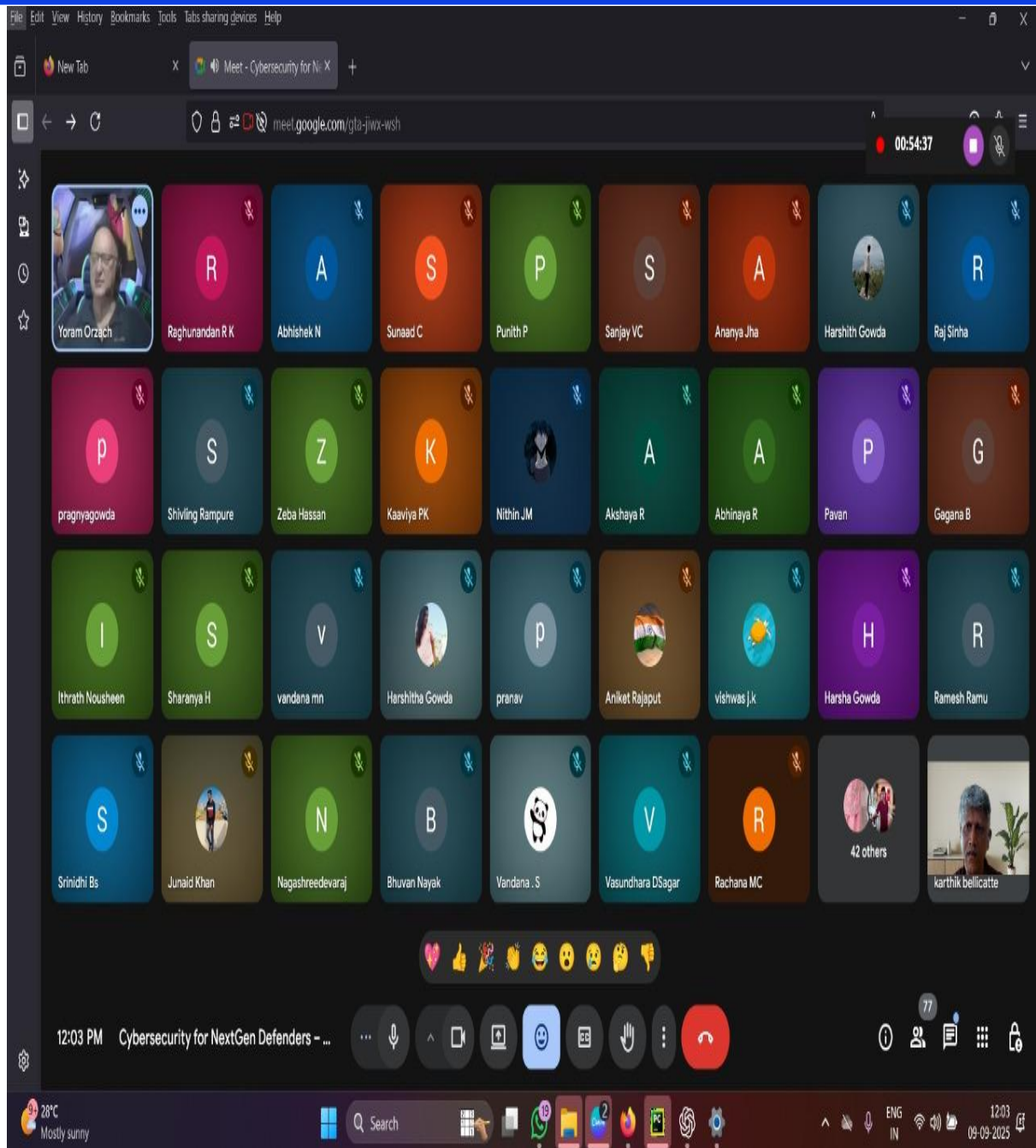
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participants with knowledge, resources, and motivation to pursue careers as NextGen cyber defenders. The practical examples, real-world case studies, and interactive approach made the session engaging and impactful.
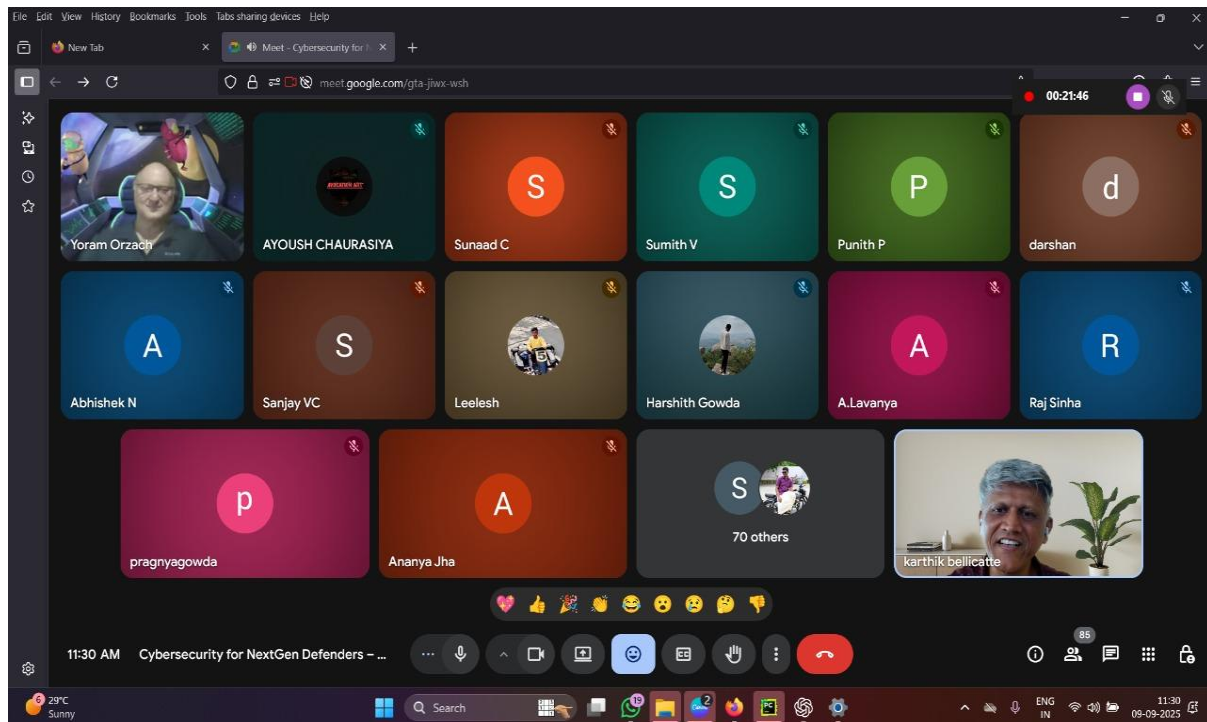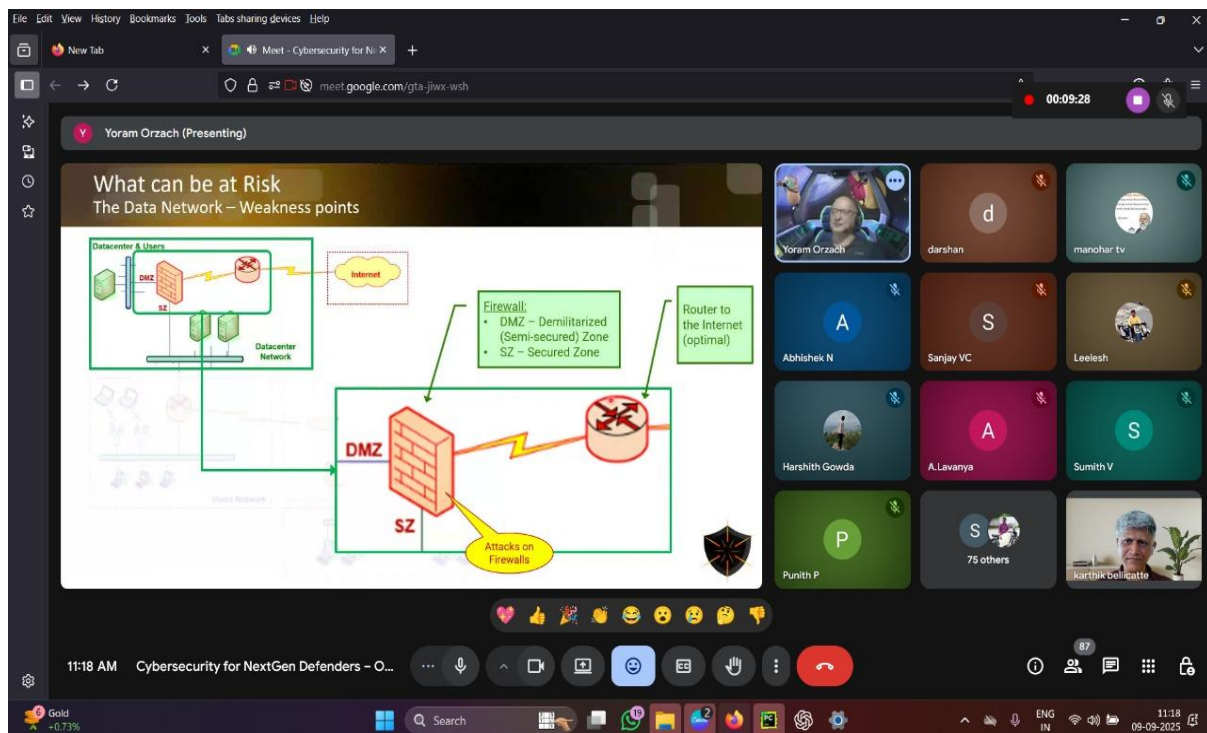
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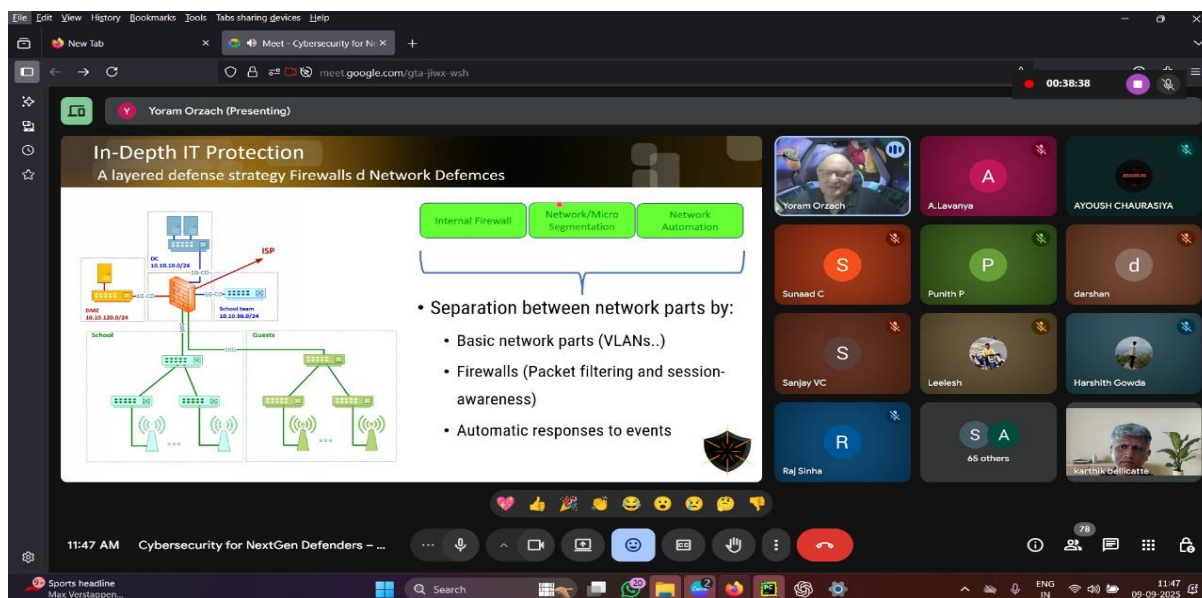### [IoT, Cybersecurity including Blockchain Technology]

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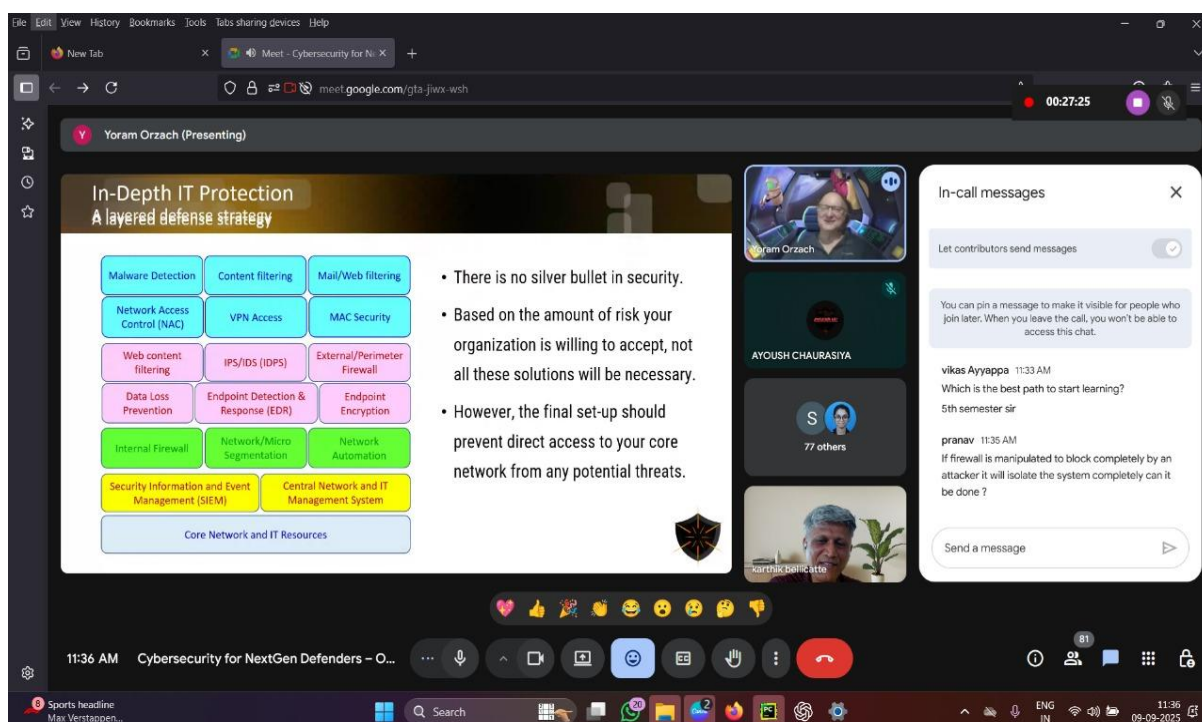(C)

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(D)

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The Figures (A), (B), (C), (D), (E) are samples of photos for **Webinar on "Cyersecurity for NextGen Defender** with Students, Faculty Coordinator, HoD and Resource person.