

The Art and Science of Penetration Testing

The **CySec Club**, Department of Computer Science and Engineering (Cyber Security), School of Engineering, **Dayananda Sagar University**, organized an **Expert Talk Webinar** on *“Cyber Security, Artificial Intelligence, and Emerging Research Trends”* on **September 2025** via Google Meet. The session aimed to bridge the gap between academic learning and real-world applications by offering participants practical insights into ethical hacking, AI, and robotics. The event witnessed active participation from faculty members, students, and dignitaries from the department.

The session was graced by **Dr. Sibi Chakkaravathy S**, Founder of Digital Fortress Pvt. Ltd. and Indominus Labs Pvt. Ltd., and Professor at VIT-AP University. He delivered a highly engaging session featuring **live demonstrations**, real-world case studies, and discussions on cybersecurity practices such as **penetration testing, vulnerability assessment, and network security**. He also showcased his innovative projects including the humanoid robots *VISU* and *VISU NG*, software-defined radio applications, and automobile security testing, offering a comprehensive view of emerging technologies.


The event began with a welcome address and an introduction to the **CySec Club**, followed by remarks from the convenors, **Dr. Udaya Kumar Reddy K. R.** (Dean, SOE) and **Dr. Dilip Kumar Saini** (Chairperson, CSE-CY). Their continued support and encouragement have been instrumental in nurturing technical excellence and industry interaction among students. The expert talk concluded with an interactive **Q&A session**, where participants engaged in discussions about career paths, skill-building, and certifications in cybersecurity.

The event concluded with a **Vote of Thanks**, appreciating the speaker, faculty, and student organizers for their efforts. Special recognition was given to the organizing team, including **Dr. Devi Priya V. S.** and **Ms. Ranjima P.**, for coordinating the session successfully. The webinar provided a valuable learning experience, motivating students to explore advanced domains in **Cyber Security, Artificial Intelligence, and Robotics**, and to pursue research and innovation with a security-first mindset.

Sibi Chakkaravarthy S (Presenting)

9:39 AM | nwd-tfig-fmb

VIT Super Intelligent Utility



Pranav Kompally, S. Sibi Chakkaravarthy, Srikar Reddy, Charan Koduri, Yaswanth Naidu, M Raghavaiah, Sashidhar Reddy, Namburi Nikhil, **VISU: A 3D Printed Functional Robot for Human Pose Replication**, *Journal of Scientific and Industrial Research*, SCIE, IJR- 0.7

S. Sibi Chakkaravarthy, Pranav Kompally and Srikar Reddy, **VISU: A 3D Printed Functional Robot for Crowd Surveillance**, *IEEE Consumer Electronics Mag.*, IEEE, Vol.10, Issue 1, pp 17 - 23, 2021, SCIE, IJR- 4.07

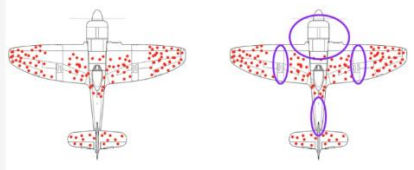
53 others

TEJAS ANAND

Sibi Chakkaravarthy S (Presenting)

9:46 AM | nwd-tfig-fmb

Finding the missing bullet holes




55 others

TEJAS ANAND

Sibi Chakkaravarthy S (Presenting)

9:50 AM | nwd-tfig-fmb

Pentesting



64 others

TEJAS ANAND

Sibi Chakkaravarthy S (Presenting)

The presentation shows the NTP Pool Project website with the URL `sg.pool.ntp.org`. A terminal window displays the following output:

```

Microsoft Windows [Version 10.0.26120.6690]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sibi Chakkaravarthy>ping dsu.edu.in

Pinging dsu.edu.in [159.89.175.241] with 32 bytes of data:
Reply from 159.89.175.241: bytes=32 time=355ms TTL=54

Ping statistics for 159.89.175.241:
    Packets: Sent = 1, Received = 1, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 355ms, Maximum = 355ms, Average = 355ms
Control-C
C:\Users\Sibi Chakkaravarthy>

```

10:06 AM | nwd-tfig-fmb

VIT AP ANABARATHI

Sibi Chakkaravarthy S

SAURAV PANDEY

AKSHAY R HEGDE

64 others

TEJAS ANAND

Sibi Chakkaravarthy S (Presenting)

The presentation shows a Kali Linux desktop environment. A terminal window displays the following output:

```

root@kali:~# netmap -u https://www.dsu.edu.in

The Web Application Firewall Fingerprinting Toolkit

[+] Checking https://www.dsu.edu.in
[+] General detection results:
[+] No IP detected on the generic detection
[+] Number of requests: 7
[+] Hosts: https://www.dsu.edu.in

root@kali:~# netmap -u https://www.dsu.edu.in

The Web Application Firewall Fingerprinting Toolkit

[+] Checking https://www.dsu.edu.in
[+] General detection results:

```

10:14 AM | nwd-tfig-fmb

VIT AP ANABARATHI

Sibi Chakkaravarthy S

SAURAV PANDEY

AKSHAY R HEGDE

64 others

TEJAS ANAND

SaiAbhiram Kolluru (Presenting)

The presentation shows a Kali Linux desktop environment. A terminal window displays the following output:

```

root@kali:~# netmap -u https://www.dsu.edu.in

The Web Application Firewall Fingerprinting Toolkit

[+] Checking https://www.dsu.edu.in
[+] General detection results:

```

10:33 AM | nwd-tfig-fmb

VIT AP ANABARATHI

SaiAbhiram Kolluru

Sibi Chakkaravart...

Dr. Devi Priya V S

AKSHAY R HEGDE

DEEVENA CHALLA...

MALDIREDDYGARI...

48 others

SAURAV PANDEY

TEJAS ANAND