

**Coimbatore Institute of Technology, Coimbatore-14**  
**One day workshop On Cyber Security Tools**  
**23rd September 2023**

**Organized by**  
**CGC - Continuous Learning and Career Assessment Progression (CLAP) Cell**  
**Jointly with**  
**Department of Information Technology**

Dr. N. K. Karthikeyan, HoD, Department of Information Technology and Dr. Valliappan Raman , HOD , Department of Artificial Intelligence and Data Science, CGC Clap Coordinator welcomed the participants for the workshop with their felicitation address. They addressed the gathering on various opportunities in the area of cybersecurity.

Following topics were handled as part of the workshop:

- Introduction to Cybersecurity
- Hands on session for Password Cracking
- Hands on session for Network Traffic Analysis
- Hands on session for Penetration testing

Dr. M. Sangeetha, Associate Professor, Department of Information Technology, conducted an introduction session on cybersecurity. The session covered insights into cyber threats, vulnerabilities, and attacks, illustrated with real-world examples.

Dr. N. Geetha, Assistant Professor, Department of Information Technology, conducted a session on diverse techniques employed in Password Cracking. She led a hands-on demonstration on cracking passwords from their hashed values using the tool "John the Ripper". All attendees engaged in hands-on exercises with the "John the Ripper" tool.

Dr. S. Rajasree, Assistant Professor, Department of Information Technology conducted a session on "Web Application Penetration Testing" utilizing the Burpsuite tool. Practical sessions were conducted to execute SQL Injection attacks on websites, demonstrating how to utilize Burpsuite for penetration testing to assess vulnerabilities such as SQL Injection, Cross-Site Scripting, and more. Participants actively engaged in attempting SQL Injection attacks on a simulated website known as "DVWA".

Dr. M. Sangeetha conducted an additional session focusing on "Network Packet Analysis," demonstrating how to extract passwords from network packets using the Wireshark tool. Participants were acquainted with diverse forms of network analysis and guided in dissecting packets from different protocols. Through practical exercises, attendees analyzed passwords from network packets originating from both vulnerable and non-vulnerable websites.

The workshop wrapped up with a feedback session from the participants, who showed great enthusiasm for enriching their knowledge and actively participating in the hands-on sessions.

## Session Photos



