Day 1:

22 January 2026
Venue: Computer Lab - 05

Foundations of Ethical Hacking & Network Analysis

Morning Session

▶▶ **Introduction to Ethical Hacking**
↳ Roles an Ethical Hacker
↳ Legal vs Illegal hacking practices
↳ Real-world applications in security operations

▶▶ **Setting up the Environment**
↳ Installing and configuring VirtualBox
↳ Kali Linux essentials

▶▶ **Networking Basics for Ethical Hacking**
↳ TCP/IP, ports, protocols
↳ Client-Server communication flow

▶▶ **Introduction to SolarWinds Topology Mapper**
↳ Network monitoring & traffic visibility

Afternoon Session

▶▶ **Wireshark for Network Analysis**
↳ Capturing and analyzing packets
↳ Identifying anomalies in traffic

▶▶ **Steganography Techniques**
↳ Hiding and extracting data from images/files

▶▶ **Practical Challenges**
↳ Wireshark hands-on exercises
↳ Steganography mini challenge

Web Application Security & Vulnerability Exploitation

Morning Session

▷▷ **Introduction to Burp Suite**
↳ Intercepting and analyzing HTTP traffic
↳ Practical Labs:
  ● Parameter Tampering
  ● Shopping Cart Tampering
  ● No Rate Limiting exploitation
  ● Broken Link Hijacking

Afternoon Session

▷▷ **Advanced Burp Suite Exploits**
↳ OTP Bypass
↳ Access Control Vulnerabilities

▷▷ **Assessment Exam**
↳ Short quiz & practical test on Day 1-2 content

▷▷ **Hackathon Preparation**
↳ Team formation
↳ Rules, scope, and tools briefing

Day 3:

24 January 2026
Venue: Computer Lab - 05

Hackathon

▷▷ **Full-day Hackathon**
↳ Teams compete to solve real-world ethical hacking challenges
↳ Areas covered: network analysis, steganography, web vulnerabilities
↳ Scoring based on accuracy, creativity, and time-to-solve

▷▷ **Closing & Awards**
↳ Hackathon winners announcement
↳ Certificates distribution
↳ Feedback & closing remarks