

# Conference Program

## PRE-CONFERENCE ACTIVITY – OCTOBER 18, 2025

### Pre-Qualifying Round - Women Cyber Warrior Challenge

## DAY 1 – OCTOBER 24, 2025

### INAUGURAL SESSION OF THE CONFERENCE

| Timings               | Activities                                                                                                                                                                                                                            |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Venue                 | Auditorium                                                                                                                                                                                                                            |
| 10:00 am              | Tilawat-e-Quran<br>National Anthem of Pakistan                                                                                                                                                                                        |
| 10:10 am              | Welcome Address                                                                                                                                                                                                                       |
| 10:10 am – 10:30 am   | “Intelligent Defenses: Leveraging AI to Protect Autonomous Vehicles from Cyber Threats”<br><br>Invited Talk by: <b>Dr. M. Omar Al-Kadri</b><br>Associate Professor, University of Doha for Science and Technology (UDST), Doha, Qatar |
| 10:30 am – 10:50 am   | Invited Talk by: <b>Dr. Mohammed Abdur Rahman</b><br>Head of the Department of Cyber Security and Forensic Computing, College of Computer and Cyber Science, University of Prince Muqrin, Madinah, KSA                                |
| 10:50 am – 11:10 noon | “Importance of Security Awareness”<br>Invited Talk by: <b>Mr. Syed Jan Muhammad Zaidi</b><br>Founder & CEO Darkanon, Australia                                                                                                        |
| 11:10 am – 11:30 pm   | Invited Talk by: <b>Dr. Ashar Javed</b><br>Hyundai AutoEver Europe GmbH                                                                                                                                                               |
| 11:30 am – 12:00 noon | Keynote Lecture<br><b>Prof. Dr. Narmeen Zakaria Bawany</b>                                                                                                                                                                            |
| 12:00 noon            | Award Distribution                                                                                                                                                                                                                    |

### TECHNICAL SESSIONS

| Audio/Visual Room (A-6) | Technical Session 1                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 am – 10:10 am     | Assessing Dark Web Awareness and Promoting Cyber Hygiene Among Pakistani Youth<br>Hafiza Faiza Hina, Shameen Fatima, Tuba Kanwal                     |
| 10:10 am – 10:20 am     | The Deepfakes Paradox: Artificial Intelligence as Both Threat and Defense<br>Syeda Masooma Raza, Marium Salman, Marwah Tariq, Nimish Khan            |
| 10:20 am – 10:30 am     | AI-Powered Threat Modeling for Cloud Native Applications<br>Alishba Iftikhar, Azka Noor, Myera Syed                                                  |
| 10:30 am – 10:40 am     | Hybrid IDS Framework for Zero-Day Attack Detection<br>Aiman Irfan, Mehwish Afsar                                                                     |
| 10:40 am – 10:50 am     | Agentic AI Security Attack Surface<br>Fakhra Tariq, Hafiza Urooj Fatima, Sundus Nadeem                                                               |
| 10:50 am – 11:00 am     | Post-Quantum Cryptography: Challenges, Limitations, and Migration Strategies<br>Ayesha Masood, Kainat Khan, Sakeena Aslam, Sohaiba Nadeem            |
| 11:00 am – 11:10 am     | DeepFake Technology: Security Challenges, Ethical Concerns, and Mitigation Strategies<br>Wania Alam , Hina Fatima, Syeda Tayyaba Asif, Maleha Younus |

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|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:10 am – 11:20 am                                       | <b>Facial Data in AI Platforms: Cybersecurity and Privacy Risks of ChatGPT and Gemini</b><br>Khadija Zulfiqar, Khansa Yahya, Kashaf Imtiaz                        |
| 11:20 am – 11:30 am                                       | <b>An Adaptive AI-Based Framework for Real-Time Detection and Mitigation of Prompt Injection Attacks</b><br>Zarmeen Binte Nasir, Seher Salahuddin, Sumayya Shahid |
| 11:30 am – 11:40 am                                       | <b>Self-Healing Blockchain</b><br>Mahnoor Mashkoor, Sana Saleem, Urooba Ubaid                                                                                     |
| <b>New Council Room</b>                                   | <b>Technical Session 2</b>                                                                                                                                        |
| 10:00 am – 10:10 am                                       | <b>The Role of AI and Machine Learning in Cybersecurity</b><br>Malaika Jawed, Mehak Merchant                                                                      |
| 10:10 am – 10:20 am                                       | <b>Quantum Radar for Mobile Perimeter &amp; Rogue Device Detection</b><br>Javeria Jalal Shahid, Jalal Shahid, Aiman Fatima Asjad Iqbal                            |
| 10:20 am – 10:30 am                                       | <b>Deepfake Technology and Cybersecurity</b><br>Alishba Javed, Hoorain binte Abdul Aziz                                                                           |
| 10:30 am – 10:40 am                                       | <b>Autonomous Detection of Video and Audio Deepfakes: A Review (2018–2024)</b><br>Hifza Hashim                                                                    |
| 10:40 am – 10:50 am                                       | <b>Big Tech Under Siege: Patterns in Recent Breaches and Pathways to Digital Fortification</b><br>Iqra Junejo, Ifrah Khan, Wania Khan, Wasifa Afroz               |
| 10:50 am – 11:00 am                                       | <b>Brain Computer Interfaces</b><br>Maya Khurshid Anwar, Muskan Kamran                                                                                            |
| 11:00 am – 11:10 am                                       | <b>AI-Driven Misuse of Threat Intelligence: Vibe Coding</b><br>Neha Tanveer, Malaika Khan, Abiha Afsar                                                            |
| 11:10 am – 11:20 am                                       | <b>The Role of Artificial Intelligence and Machine Learning in Cyber Defense</b><br>Sawera Ghulam Nabi, Sobia Kamali, Sania Wali Muhammad                         |
| 11:20 am – 11:30 am                                       | <b>AI-To Enable CyberSecurity Defense for Enterprise Environment</b><br>Rooman Noori, Neha Maqbool, Humna Amjad                                                   |
| 11:30 am – 11:40 am                                       | <b>The Impact of Quantum Computing on Cybersecurity: Threats and Mitigation Strategies</b><br>Tahira Waseem, Tayyaba Sajid, Mehwish Bibi                          |
| <b>9:00 am – 1:00 pm<br/>Programming Lab<br/>IV (C63)</b> | Training Workshop in Collaboration with Ignite<br><b>“Learn to Navigate the Digital Battlefield”</b>                                                              |

## DAY 2 – OCTOBER 25, 2025

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|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:00 am – 1:30 pm<br>Programming Lab IV (C63) | Women Cyber Warrior Challenge – Capture the Flag Hackathon                                                                                                                         |
| Timings                                        | Activities                                                                                                                                                                         |
| Venue                                          | Muhammad Uzair Auditorium                                                                                                                                                          |
| 10:00 am – 10:15 am                            | Welcome Address                                                                                                                                                                    |
| TECHNICAL SESSIONS                             |                                                                                                                                                                                    |
| 10:15 am – 10:30 am                            | <b>Self-Optimizing &amp; Self-Healing SIEM</b><br>Rana Ahmed<br>National University of Computer and Emerging Sciences (NUCES)                                                      |
| 10:30 am – 10:45 am                            | <b>The Role of Quantum Computing in Addressing Security Issues and Challenges in IoT</b><br>Khurram Iqbal<br>Hamdard University                                                    |
| 10:45 am – 11:00 am                            | <b>A Novel Few Shot Learning Enabled Zero Day Attacks Detection for Electric Vehicle Application</b><br>Abdullah Lakhani<br>Dawood University of Engineering and Technology        |
| 11:00 am – 11:15 am                            | <b>Blockchain-Enabled Secure Hybrid E-Learning System</b><br>Mansoor Ali<br>Dawood University of Engineering and Technology                                                        |
| 11:15 am – 11:30 am                            | <b>A Novel Hybrid Deepfake Audio Detection System and Its Applications in Cyber Security</b><br>Muhammad Faisal<br>Dawood University of Engineering and Technology                 |
| 11:30 am – 11:45 am                            | <b>Cybersecurity in 5G Networks: Issues, Trends, and Challenges</b><br>Mahoor Iftikhar<br>Sir Syed University of Engineering and Technology                                        |
| 11:45 am – 12:00 noon                          | <b>Deepfake Technology: Rising Cybersecurity Threats and the Need for Stronger Defenses</b><br>Zainab Arif<br>Sir Syed University of Engineering and Technology                    |
| 12:00 noon – 12:15 pm                          | <b>Power Analysis Attacks and Countermeasures in Post Quantum Cryptographic Algorithms</b><br>Akhtar Ali<br>Dawood University of Engineering and Technology                        |
| 12:15 pm – 12:30 pm                            | <b>Tamperproof Customsguard: A Blockchain-Based Framework for Transparent and Secure Tax Fraud Auditing</b><br>Muhammad Ali<br>National University of Computer & Emerging Sciences |

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| 12:30 pm – 12:45 pm | <b>The Threat of Deepfakes in Cyberattacks</b><br>Asma Irfan<br>Cardiff University, Cardiff, Wales, UK                  |
| 12:45 pm – 1:10 pm  | <b>Invited Talk by: Dr. Shahzeb Malik</b><br>Member of Ministry of Information Technology and Telecommunication (MoITT) |
| 1:15 pm – 1:30 pm   | <b>“TBD”</b><br><b>Invited Talk by: Mr. Hussein Hassanali</b><br>StrataG Consulting PK                                  |
| 1:30 pm – 1:45 pm   | <b>Address by Chief Guest</b><br><b>Mr. Saleem Ghouri</b><br>CEO - NETSOL Technologies                                  |
| 1:45 pm – 2:00 pm   | <b>Vote of Thanks</b>                                                                                                   |
| 2:00 pm             | <b>Award Distribution</b>                                                                                               |