



PAK-CRYPT INTERNATIONAL SYMPOSIUM ON CYBERSECURITY

Program

24th to 27th November, 2025
Air University, Islamabad, Pakistan

Opening Ceremony - PakCrypt International Symposium on Cyber Security

Venue: AU Auditorium, Main Campus

Activity	Time
Guests to be Seated in AU Auditorium	0945 Hrs
Guest of Honor and Chief Guest Arrival	1000 Hrs
National Anthem and Recitation	1002 Hrs
Opening Remarks by Director NCCS	1005 Hrs
Brief on NCSA	1010 Hrs
Welcome Address by Vice Chancellor, Air University	1015 Hrs
Keynote Talk	1020 Hrs
Address by Guest of Honor	1035 Hrs
Souvenir Distribution	1040 Hrs
Address by Chief Guest	1045 Hrs
Group Photo	1055 Hrs
Visit to Competition Venue & Refreshment	1100 Hrs

Day 1 - 24 November 2025 (Main Campus)			
Time	CSS – Cyber Security Symposium (AU Auditorium)	CWS – Cryptography Winter School (Crypto Hall)	CTF Challenge (Library)
11:00–11:20	Morning Tea Break		CTF Final Rivalry
11:20–12:05	Talk: Towards a Maturing Cybersecurity Ecosystem: The Role of Economics and Regulations Prof Dr. Siraj Shaikh		
12:05–12:10	Short Break / Transition		
12:10–12:55	Talk: Security of AES Against Differential-Type Attacks Dr. Orhun Kara		
12:55–14:00	Lunch / Prayer Break		
14:00–14:45	Talk: Federated Learning and Intrusion Detection for Industrial IoTs Dr. Ali Kashif Bashir	Workshop: Methods and Techniques for Cryptanalysis Dr. Jiqiang Lu	
14:50–15:35	Talk: The Challenge of Assuring AI and Autonomous Systems: The case of Automotive Systems Prof Dr. Siraj Shaikh		
15:35–15:55	Afternoon Tea Break		
16:00–16:45	Talk: Data Security & AI Compliance: Eliminating Data Theft Through Data-Centric Security and Responsible AI Governance Mr. Kashif Hasan	Talk: The Algebra behind Cryptology Dr. Orhun Kara	

Day 2 - 25 November 2025 (Main Campus)			
Time	CSS – Cyber Security Symposium (AU Auditorium)	CWS – Cryptography Winter School (Crypto Hall)	Cybersecurity Ideas Cup
09:25–09:30	Brief announcements		Ideas Cup Final
09:30–10:15	Talk: White Box Cryptography Dr. Jiqiang Lu		
10:15–10:20	Short break / Transition		
10:20–11:05	Talk: Defensive Cyber Ops Dr. Muhammad Mudassar Yamin		
11:05–11:25	Morning Tea Break		
11:25–12:10	Talk: AI-Driven Security for IoT and Edge Networks Dr. Ali Kashif Bashir	Talk: Cryptanalysis of Symmetric Ciphers Dr. Changir Tezcan	
12:10-12:15	Short break / Transition		
12:15–13:00	Talk: Advancing AI Safety and Reliability in LLM Prof. Dr. Roberto Di Pietro	Student Talks: International Students Talks Int. Students of CWS	
13:00–14:00	Lunch / Prayer Break		
14:00–14:50	CTF/Showdown Event	Workshop: Wide Trail Strategy of SPN Ciphers and its consequences Dr. Orhun Kara	
14:00-15:35			
15:35–15:55	Afternoon Tea Break		
16:00–16:45	CTF/Showdown Event	CWS Panel Discussion – Cryptography (CWS speakers + Industry)	

Day 3 - 26 November 2025 (Main Campus)			
Time	CSS – Cyber Security Symposium (Auditorium)	CWS – Cryptography Winter School (Crypto Hall)	PakCrypt Challenge (Library)
09:30–10:15	Online Talk: Emerging Threats in AI/LLM Security Prof. Berk Sunar		PakCrypt Final Competition
10:15–10:20	Short break		
10:20–11:05	Talk: Cybersecurity dimensions of AI, Blockchain and Post Quantum Cryptography Dr. Cihangir Tezcan		
11:05–11:25	Morning Tea / Coffee Break		
11:25–12:10	Talk: The Internet’s Weakest Link: A Modern Defense Against BGP-Scale PKI Attacks Dr. Muhammad Umar Janjua	Workshop: Boolean Functions and Their Applications in Symmetric Cryptography Dr. Gregor Leander	
12:15–13:00	Talk: Quantum Cryptanalysis of Symmetric Ciphers: Capabilities, Constraints, and the Future Dr. Madeeha Khalid		
13:00–14:00	Lunch Break		
14:00–14:50	Workshop: Pen-Testing and White-Hat Hacking for Critical Infrastructure Dr. Mudassar Yamin	Workshop: Optimization of Symmetric Ciphers on GPUs Dr. Cihangir Tezcan	
14:00–15:35			
15:35–15:55	Afternoon Tea Break		
16:00–16:45	Talk: Security vs Compliance: The Battle between being safe and looking safe Syed Talal Hassan Bukhari	Student Talks: International students Talks of CWS Int. Students of CWS	

Day 4 - 27 November 2025 (H-11 Campus)			
Time	CSS – Cyber Security Symposium (Cyber Hall)	CWS – Cryptography Winter School (Auditorium-Crypto Hall)	Industry Exhibit
09:15–10:00	Low Latency Designs Dr. Gregor Leander		Cybersecurity Industry Expo
10:00–10:05	Short break		
10:05–10:50	Talk: Vector Space Manipulation in LLMs for Cyber Offence/Defence Dr Mudassar Yamin	Talk: Time-Memory Trade-Off Attack on GSM A5/1 Dr. Jiqiang Lu	
10:50–11:10	Morning Tea / Coffee Break		
11:25–12:10	Talk: Early Detection of Cyber Threats Hafiz Farooq	Talk: Boolean Functions and Their Applications in Symmetric Cryptography Dr. Gregor Leander	
12:15-13:15	Talk: Bacteria-Free Generative AI: A Secure AI Pipeline Perspective and GenAI Threat Protection Using AI Gateway (LLMInspect) Hafiz Farooq	Panel Discussion: Future of Crypto and SIGINT CWS Speakers + Industry	
13:15–14:15	Lunch Break		
14:15–15:00	Break / Seating for Closing Cermony		

Closing Ceremony – PakCrypt International Symposium on Cyber Security

Venue: H-11 Campus, Islamabad

Activity	Time
Guests to be Seated	1515 Hrs
Guest of Honor Arrival	1525 Hrs
Chief Guest Arrival	1530 Hrs
National Anthem and Recitation	1532 Hrs
Brief by Director NCCS	1535 Hrs
Role of NCSA	1540 Hrs
Remarks by NESCOM Representative	1545 Hrs
Remarks by Guest of Honor	1550 Hrs
Vote of Thanks by Vice Chancellor, Air University	1555 Hrs
Distribution of Awards and Certificates	1600 Hrs
Address by Chief Guest	1620 Hrs
Visit to Expo and Group Photo	1625 Hrs
Refreshment	1645 Hrs

ACADEMIC PARTNERS R&D LABS



National Cybercrime
Forensics Lab
Air University, Islamabad



Cyber Reconnaissance &
Combat Lab
Bahria University, Islamabad



Internet Security &
Privacy Lab
LUMS University, Lahore



National Security Auditing &
Evaluation Lab
MCS NUST, Rawalpindi



Internet Security & Quantum
Technology Lab
NED University, Karachi



Deep Packet Inspection (DPI) Lab
University of Engineering &
Technology, Taxila



Critical Infrastructure Protection
& Malware Analysis Lab
PEAS, Islamabad



IoT Security Lab
University of Engineering
& Technology, Lahore



Blockchain Security Lab
Information Technology
University, Lahore



Innovative & Secured
Systems Lab
UET Peshawar



Innovative & Secured
Systems Sub Lab
University of Peshawar, Peshawar



Devices & Network
Security Lab
Air University, Islamabad