Government of Pakistan
(Ministry of Science & Technology)
Institute of Industrial Electronics Engineering
Pakistan Council of Scientific & Industrial Research (PCSIR)

Interactive Lecture Program on

Introduction to Cyber Security and Ethical Hacking

***Objective*:** The primary objective of this CPD activity focuses on the foundational principles of Cyber Security and Ethical Hacking to protect modern digital assets and infrastructure. This enhances the capabilities of professionals and faculty members through an understanding of the current threat landscape and modern technological defense tools.
In particular, the session emphasizes core information security concepts, enabling the adoption of secure practices, proactive defense, and vulnerability assessments in the academic and professional domains, particularly to:

- Reinforce fundamental cyber security principles (Confidentiality, Integrity, and Availability)
- Introduce ethical hacking concepts and penetration testing methodologies
- Demonstrate practical vulnerability identification and risk mitigation

Learning Objectives of the Lecture Program:
Participants will be able to identify common security threats, understand ethical hacking frameworks, and apply basic defensive measures to secure networks and systems. The lecture program is designed to achieve the following learning objectives:

- Fundamentals of Cyber Security.
- Introduction to Ethical Hacking & Penetration Testing.
- Understanding Common Cyber Threats and Attack Vectors.
- Network Security and Cryptography Basics.
- Hands-on Lab Session

CPD Category:	C
Date:	15-06-2026.
Course Timings:	14:00 Hours – 15:30 Hours.
CPD PEC Credit Points:	0.5
Course Fee:	1000/= (Rupees One Thousand only). 500/= (Rupees Five Hundred Only). [For Students]
Pay order should be in favor of	"**IIEE (PCSIR) Student Fund Account".** Only Pay orders are accepted. [IIEE students are exempted]
Resource Person:	**Engr. Bilal Ahmed** (Computer System Specialist, IIEE-PCSIR)
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