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

Interactive Lecture Program on
"Role of Artificial Intelligence (AI) & Internet of Things (IoT) in Industry 5.0".

***Objective*:** The objective of this CPD is the knowledge about adoption, expansion, and implementation of AI-enabled hardware, tools, and semiconductor technologies as the primary driver toward the transition to Industry 5.0. By exploring the overarching vision of the Fifth Industrial Revolution, the content aims to bridge academic advancements with practical industrial application, ultimately fostering a symbiotic relationship between humans and machines to increase efficiency, innovation, and adaptability. Additionally, the presentation identifies fundamental research areas and inherent challenges—such as digital sovereignty, sustainability, and human acceptance—while providing validation evidence through pivotal industrial use cases.

Learning Objectives of the Lecture Program
After successful completion of the session, participants will be able to:

- Distinguish between Industry 4.0 and Industry 5.0 paradigms by identifying how the fifth revolution moves beyond pure digitalization and automation toward a human-centered, sustainable, and resilient industrial model.
- Analyze the role of AI-enabled Electronic Components and Systems (ECSs) in fostering a symbiotic relationship between humans and machines, thereby improving manufacturing quality and reliability.
- Assess the importance of end-to-end AI utilization in industrial processes to accelerate time to market and facilitate the emergence of new cross-domain ecosystems.

CPD Category:	C
Date:	31-12-2025.
Course Timings:	14:00 Hours – 16:00 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]**
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