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

Interactive Lecture Program on

Essential Software Engineering: Principles and Systems using UML diagram

***Objective*:** This session aims to provide with an understanding of the fundamental principles of software engineering, steps of the Software Development Life Cycle (SDLC), software modeling using UML diagrams, team structures, project management basics, risk analysis, testing strategies. Participants will gain insight into modern software development practices and learn how to effectively model and manage software projects.

The Lecture Program would highlight the following **learning objectives**:

- Steps in the **Software Development Life Cycle (SDLC).**
- **Recent advancements** in software development approaches (Agile, DevOps).
- **Modeling software systems** using UML diagrams (Use case, Class, Sequence).
- **Team structure** and fundamentals of **project management.**
- Basics of **Risk Analysis** in software projects.
- Overview of **Testing strategies**.

CPD Category:	C
Date :	31-07-2025.
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]**
Resource Person:	**Engr. Dr. Muhammad Sameer Ahmed**
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