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

Interactive Lecture Program on

Python Programming for Industry and Research

***Objective*:** This session aims to provide participants with a practical introduction to Python programming and its applications in engineering, industry, and research. The session will cover the fundamentals of Python, introduce commonly used development environments, demonstrate basic programming concepts through hands-on examples, and highlight Python's role in areas such as data analysis, artificial intelligence and industrial automation. Participants will gain an understanding of how Python can be used to solve real-world engineering problems and serve as a foundation for advanced technologies.

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

- Introduction to Python programming and its significance in engineering, industry, and research.
- Setting up the Python development environment using VS Code, Jupyter Notebook, and Google Colab.
- Understanding Python fundamentals, including variables, data types, operators, input/output, and control structures.
- Writing simple Python programs through live demonstrations and hands-on exercises.
- Introduction to Python libraries for scientific computing and data analysis (NumPy, Pandas, and Matplotlib).
- Overview of Python applications in Artificial Intelligence, Machine Learning, Industrial Automation, IoT, and Signal Processing.

CPD Category:	C
Date :	28-07-2026.
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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