

Electrical Engineering Department

1.	Name of the Program	POWER QUALITY AND FACTS
2.	TAC No.	ICT-79, National Level
3.	Dates	17/11/2025 to 21/11/2025
4.	Venue	Online mode
5.	Target Group	Faculty Members of Polytechnic / Engineering Colleges
6.	Course Coordinator	Prof. Lini Mathew
7.	Objectives/ Learning Outcomes	The participants shall be apprised about the causes and impact of various power quality issues and latest methods and trends of mitigating them. Also various FACTS devices, their optimal allocation, and integration of FACTS into micro-grids will be dealt with.
8.	Course Contents	<ul style="list-style-type: none"> ➤ Power Quality Issues - Causes and Impact ➤ Power Quality Monitoring and Measurement ➤ Mitigation of Power Quality Issues – Various Devices ➤ Classification and Need of FACTS Devices ➤ Optimal Allocation of FACTS Devices ➤ Distributed FACTS Devices ➤ Integration of FACTS into Micro-Grid ➤ Real Time Simulation of FACTS Devices and Micro-Grid
9.	Methodology	The teaching-learning process of training program will include online theory lectures, doubt clearing sessions and case studies.