Electrical Engineering Department

1.	Name of the Program	DISTRIBUTED ENERGY SOURCES AND SMART GRID
2.	TAC No.	ICT-52, National Level
3.	Dates	04/08/2025 to 08/08/2025
4.	Venue	Online mode
5.	Target Group	Faculty Members of Polytechnic / Engineering Colleges
6.	Course Coordinators	Prof. Lini Mathew
7.	Objectives/ Learning Outcomes	The participants shall be apprised about the latest trends in Distributed Generation and Smart-Grid such as Challenges of Grid Connection of DER, Distributed Generation Integration and Pricing, Islanding Detection Techniques, Energy Storage and Battery Management and Hardware in Loop.
8.	Course Contents	 Types of Distributed Energy Resources Challenges of Grid Connection of DER Hybrid Renewable Energy Systems Integration and Pricing of Distributed Generation Smart Grid Operation with Integration of RES and EV Islanding Detection Techniques on Micro Grid Cyber Security in Smart Grid Advanced Metering Infrastructure Energy Storage Systems in Smart Grid Concept of Hardware in Loop and Modelling and Simulation of Micro-Grid
9.	Methodology	The teaching-learning process of training program will include online theory lectures, doubt clearing sessions and case studies.