

COORDINATOR

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**For any clarification,
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Workshop on Energy Storage Technologies for Micro-grid Energy Management

20th – 21st December 2024

Organized by



**Department of
Electrical and Electronics Engineering
National Institute of Technology Tiruchirappalli
Tamil Nadu - 620 015.**

Sponsored by



**SERB – DST
Under the SSR activity of the CRG project**

Scope of the course

Our country has an ever-increasing demand for electrical energy due to the growth in industrialization and urbanization. In this context, creating an eco-friendly environment is a prime concern, as eliminating air pollution emphasizes the need for power from renewable energy sources. Owing to technological improvements and significant cost reductions, wind and solar energy power generation is nearly competitive with conventional sources. Recently, the development of microgrids using renewable energy sources has become popular to cater to the needs of a group of consumers, effectively utilize available renewable energy, and reduce grid dependency. Micro-grid shall operate in either grid-connected mode or islanded mode.

By attending this workshop, participants will gain in-depth knowledge of the fundamentals of micro-grid configurations and their operation. Further, participants will be able to understand the need for energy storage in micro-grids, different energy storage technologies, operational aspects and energy management.

The following topics will be covered in different sessions:

- ✓ Overview of Micro-grid
- ✓ Battery Energy Storage System for Micro-grid
- ✓ Micro-grid Energy Management
- ✓ Compressed Air Energy Storage System for Microgrid
- ✓ Flywheel Energy Storage System for Microgrid
- ✓ Laboratory session

Registration

Fill in the details mentioned in the registration link, on or before
10th December 2024.

<https://forms.gle/AaebNc2AYp5ecgCJ9>

To give individual attention to the participants and make the workshop more effective, we restricted the number of participants to 25. The registration fee includes a kit, lunch and refreshments for two days.

Registration Fee Payment

Registration Fee: Rs. 250/- (including GST)

After the coordinator confirms via email, you must make the registration fee payment (Rs. 250/-) through SBI Collect on or before the date mentioned in the confirmation mail

The candidature will automatically get cancelled if the registration fee is not received in time after the confirmation mail.

Accommodation

Accommodation for the limited number of participants shall be arranged in the institute guest house on a payment basis (*Rs. 1250/- per person/day*). Usually, it will be a shared twin accommodation.