

## ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering was started in the year 2006 under Bharathidasan Institute of Technology (BIT) with an annual intake of 60 students. Government of Tamil nadu took over the BIT and converted into Anna University Tiruchirappalli in the year 2007. In the same year, the student intake has been increased to 120. The Department has provided the excellent infrastructure to do research and regular academic practical in the following laboratories, Electrical Machines Laboratory, Electric Circuits Laboratory, Linear Integrated Circuits Laboratory, Power Electronics Laboratory, Measurement and Instrumentation Laboratory, Control Systems Laboratory and power system Simulation Laboratory. The Department has a substantial research portfolio in the research areas of Power Systems, Power Electronics and Embedded Systems. Our staff members have produced many publications in the National and International level. The department strives to instill in students the attitudes, values, vision and training that will prepare them for lifetimes of continued learning and leadership, to develop the ability and passion to work wisely, creatively, and effectively for the benefit of society; to generate new knowledge for the betterment of humankind and disseminate it universally; and to generate realistic and innovative solutions for the current and future technological needs. The department is focused its research towards to bring the solution for alternative energy resource required by the nation to satisfy its energy need.

## OBJECTIVE OF THE WORKSHOP

The objective of the workshop is to equip the participants with a technical know-how on efficient approaches for the integration of renewable energy systems and energy storage devices. The reduction of greenhouse gas emissions and strengthening the security of electric energy have gained enormous momentum recently. Integrating intermittent renewable energy sources (RESs) such as PV and Wind into the existing grid has increased significantly in the last decade. However, this integration hampers the reliable and stable operation of the grid by posing many operational and control challenges. Generation uncertainty, power quality issues, and fault ride-through capability are some of the various challenges. Energy storage systems (ESSs) play a vital role in mitigating the fluctuation by storing the excess generated power and then making it accessible on demand.

## ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) [IEI] is the largest multi-disciplinary professional body of engineers, established in 1920 with its Headquarters located in Kolkata and incorporated under Royal Charter on 9th September, 1935 by the then His Majesty of King George V. The Royal Charter endowed the Institution with the responsibility to promote the general advancement of engineering amongst its members and persons attached to the Institution. After Independence, the Institution is a "Body Corporate" protected under Article 372 of the Constitution of India. The Institution of Engineers (India) is administered by a National Council with the President as its Head.

The Institution has been serving the engineering fraternity for over a Century with its national and international presence through 125 Centres spread all over India, 6 Overseas Chapters, 6 Fora and an Organ namely Engineering Staff College of India (ESCI), Hyderabad. The Institution encompasses 15 (fifteen) engineering disciplines with a Corporate membership of over 2 lakhs. IEI provides grant-in-aid to its members to conduct research and development on engineering subjects.

For details, please see: [www.ieindia.org](http://www.ieindia.org)

## ABOUT TIRUCHIRAPPALLI LOCAL CENTRE

Tiruchirappalli Sub-Centre of IE (I) was formed in 1973 and was elevated as Local Centre in 1987 after the membership crossed the 500th mark. Presently, the membership is more than 2500. Our Local Center is functioning in its own premises located in BHEL campus on the land leased by BHEL, Tiruchirappalli. The building was declared open by Shri P.S Gupta, CMD, and BHEL in August 1990. The institution houses a library having more than 5000 books from various divisions for the benefit of students and members. Our Centre celebrated its Silver Jubilee during the year 1998 to mark the completion of 25 years of its formation and its meritorious service to the Engineering community. The Local Centre has a very close liaison with leading engineering organizations, professional Institutions and sister professional bodies in the conduct of Technical activities. Tiruchirappalli Local Centre stands Second in our country, among all Local Centers based on the level of activities. We have been regularly receiving additional incentives and appreciation letters of the President and other top people of our institution, for the same. For details, please see: <http://ieitiruchi.org/>

## ANNA UNIVERSITY, TIRUCHIRAPPALLI

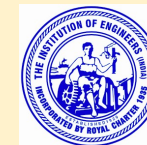
Anna University, BIT Campus, Tiruchirappalli, has been established by the Government of Tamil Nadu as a 'Technical Institution' at Tiruchirappalli. The Institution is established with a view to impart quality student centered technical education so as to produce proven technocrats and to strive hard for continuous development and improvement in learning, research and developmental activities. Teaching, Research and Extension services are carried through the departments and centers of the Institution. The Institution also works towards fostering partnerships with Academic and Industrial experts to provide quality education and opportunities for entrepreneurial development by providing hands-on training.

## The Institution of Engineers (India)

"A Century of Service to the Nation"

### All India Workshop on "Renewable Energy Integration with Energy Storage Systems"

Organized by



The Institution of Engineers (India)

Tiruchirappalli Local Centre

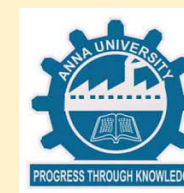
Under the Aegis of

Electrical Engineering Division Board, IEI

in association with

UCE, BIT Campus,

Anna University, Tiruchirappalli



8-9 February 2023

Venue

Department of Electrical and Electronics and Engineering,  
UCE, BIT campus, Anna University, Tiruchirappalli,  
Tamil Nadu – 620 024

**Topics proposed to be covered in this workshop:**

- i) Growth of renewable energy sector in India,
- ii) Overview of power generation from renewables,
- iii) Challenges of integrating variable renewable energy sources with the power grid,
- iv) Grid stability,
- v) Various Energy storage Technologies and
- vi) Case studies from other countries etc.,

**Resource persons** from academic institutions, and industries will be invited.

**Registration Fees (Inclusive of GST as applicable):**

All delegates attending the workshop must register by filling the registration form and by paying registration fees as follows:

Category	IEI members – in Rs.	Non IEI members – in Rs.
Industries & Govt. organizations	1500	2000
Academic Institutes – faculties	1200	1400
Students and Research Scholars	600	700

- Registration fee includes workshop kit, Tea & working lunch during sessions. Presentation material will be shared through G drive for limited period for downloading by participants.
- The Registration form in the prescribed format to reach us on or before 20.12.2022.
- The number of participants will be limited to 100. Hence participants are advised to register early.
- The registration form along with documents of payment should be submitted to the Hon. Secretary personally or by post / courier on the following address:  
The Hon. Secretary,  
The Institution of Engineers (India)  
Tiruchirappalli Local Centre,  
BHEL Main Office Road, BHEL,  
Tiruchirappalli – 620014

**Payment:**

The payments can be made by

- A crossed Demand Draft / MICR Cheque, drawn in favour of "The Institution of Engineers (India), Tiruchirappalli Local Centre", payable at Tiruchirappalli.
- Depositing the amount in our SB A/c No.10891417887 of The Institution of Engineers (India), Tiruchirappalli. The deposit slip will form the document for payment and will be exchanged with the receipt at the registration counter.

**Our Bankers:** State Bank of India, Heavy Electricals, Kailasapuram, Tiruchirappalli – 620014, IFS Code: SBIN001363, Branch code: Last six characters of IFS code represent branch code, MICR code: 620002004

**Travel & Accommodation:**

- The delegates will have to make their own arrangements for travel, boarding & lodging.

**NATIONAL ADVISORY COMMITTEE**

**Chairman's** Dr.R.VELRAJ, Vice-Chancellor, Anna University, Chennai.  
Dr. HEMANT O THAKARE, FIE, President, IEI

**Co-Chairman's** Dr.G.Ravikumar, Registrar, Anna University, Chennai.  
Dr.P.Hariharan, Director, CCC, Anna University, Chennai.  
Dr. T. Senthil Kumar FIE, Prof. & Dean, UCE, Anna University, BIT Campus Tiruchirappalli  
Prof. (Dr). Sudhir Kumar Calla FIE, Chairman, ELDB, IEI

**Members:** Mr Dharm Chandra, FIE, Member, ELDB, IEI  
Mr Pankaj Dadwal, FIE, Member, ELDB, IEI  
Dr. S. Dharmalingam, FIE, Member, ELDB, IEI  
Mr M.R.Kothari, FIE, Member, ELDB, IEI  
Mr K K Gopalakrishnan Nair, FIE, Member, ELDB, IEI  
Mr. Milind Anant Pathak, FIE, Member, ELDB, IEI  
Mr B S Prabhakara, FIE, Member, ELDB, IEI  
Mr Ram Niwas Rajpoot, FIE, Member, ELDB, IEI  
Dr. Khiroda Kumar Rout, FIE, Member, ELDB, IEI  
Mr A Sekar, FIE, Member, ELDB, IEI  
Mr Ashwani Kumar Sharma, FIE, Member, ELDB, IEI  
Mr Donray Awungshi Shishak, FIE, Member, ELDB, IEI  
Mr Bhupendra Nath Singh, FIE, Member, ELDB, IEI  
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Mr RR Tanwar, FIE, Member, ELDB, IEI  
Dr. B. Venkataramana, FIE, Member, ELDB, IEI  
Dr.G.Ravikumar, Registrar, Anna University, Chennai.  
Dr.P.Hariharan, Director, CCC, Anna University, Chennai.  
Dr. T. Senthil Kumar FIE, Prof. & Dean, UCE, Anna University, BIT Campus, Tiruchirappalli  
Dr. Kevin Ark Kumar, MIE, Hon. Secretary, Tiruchirappalli Local Centre, IEI

**ORGANISING COMMITTEE**

**Chairman** Er.B. Balasubramanian, FIE, Chairman, Tiruchirappalli Local Centre, IEI

**Organizing Secretary's** Dr. N. Kumaresan FIE, Dean (SW) & Professor Dept. of EEE, NIT, Tiruchirappalli.

Dr.P. Anbalagan, Head of the Department / EEE, UCE, Anna University, BIT campus. Tiruchirappalli.

**Event Coordinators** Dr. S.Titus, MIE, Professor, Department of EEE KRCE, Tiruchirappalli  
Dr. P. R. Venkateswaran, Manager, BHEL, Tiruchirappalli

Dr.M.Balasingh Moses, Asst. Prof. EEE, UCE, Anna University, BIT Campus

Dr. P. Vijayarajan, Asst. Prof. EEE, UCE, Anna University, BIT Campus

Dr. H. Habeebullah Sait, Asst. Prof. EEE, UCE, Anna University, BIT Campus

**CONTACTS :**

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<b>Address</b>	Hon. Secretary, Tiruchirappalli Local Centre- IEI, BHEL Main Office Road, BHEL, Tiruchirappalli 620 014	HOD/EEE, UCE, BIT Campus, Anna University, Tiruchirappalli – 620 024

**All India Workshop**

on

**“Renewable Energy Integration with Energy Storage Systems”**

**8-9 February 2023, Tiruchirappalli**

**REGISTRATION FORM**

1. Name (In block letters):

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2. Designation:.....

3. Organization:.....

4. Address for Communication:

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5. Mobile:.....

Land Line:.....

6. E-mail id:.....

Registration category (Tick the boxes as per your category). Delegate from

- IEI members - Grade & Member No. ....
- Non IEI members
- Industries & Govt. organizations
- Academic Institutes – faculties
- Students/ Research Scholars

**Payment Details:**

DD/Cheque No .....

Dt.....for Rs.....

Deposit slip for online payment Dt.....

for Rs.....

Beneficiary name: The Institution of Engineers (I), Tiruchirappalli Local Centre. Bank Account no.: 10891417887, IFSC NO: SBIN 0001363, State Bank of India, Heavy Electricals, Kailasapuram, Tiruchirappalli 620014.

Signature of the Applicant

**Note:** Please send this form along with DD/Cheque to “The Honorary Secretary, The Institution of Engineers (India), Tiruchirappalli Local Centre, BHEL Main Office Road, Tiruchirappalli – 620014” by post. In case of online payment, please send the scanned copy of this form along with deposit slip for online payment by email to [ieitlc1973@gmail.com](mailto:ieitlc1973@gmail.com) with a copy to [anbu@aubit.edu.in](mailto:anbu@aubit.edu.in)