



Familiarization, Handling and Training on Sophisticated Analytical and Energy Audit Instruments for Engineers

(A self-sponsored workshop)

August 18th- 22th 2025

Organized by

Department of Energy and Environment, National Institute of Technology, Tiruchirappalli

About NITT

The National Institute of Technology Tiruchirappalli (formerly known as Regional Engineering College, Trichy) is situated in the heart of Tamil Nadu on the banks of river Cauvery. Since its inception in 1964, it has established itself as a premier institute imparting quality technical education and engaged in research and development in different fields. The institute offers ten Undergraduate programmes and twenty-one Post Graduate programmes in Science, Engineering & Technology, besides M.S. (by Research) and Ph.D. in all the departments. NIT Trichy is located about 22 km from Tiruchirappalli Junction / Central Bus stand on the Trichy Thanjavur Highway. Department of Energy and Environment (DEE herein, formerly known as CEESAT) was established in 1995 under the UK India REC project. MTech. (Energy Engg.), an interdisciplinary full-time programme is offered since 1996. The research and development activities of DEE include CO₂ capture and sequestration, effluent treatment using solar energy / phytoremediation, energy modeling, Coal and biomass conversion, wind energy, Solar PV/ Thermal systems, energy-efficient building, and energy storage devices. The department is committed to convert its research into a real-time technology transfer to the society and industry where it meets out its ultimate objective.

About theCourse

The workshop is aimed to provide hands-on experience to the students primarily from universities, colleges, private academic institutions and newly established institutes in handling / troubleshooting of high-end scientific instruments and such skill development on themes required for research work. The program is meant to support motivated PG and Ph.D. level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits. Following are the objectives of this high end workshop:

1. Theoretical background and familiarize the sophisticated analytical and energy audit instruments.
2. Hands-on training on sample preparation for testing in the analytical instruments.
3. Exposure to handling, troubleshooting, and first step maintenance of the analytical and energy audit instruments.
4. Data analysis and interpretation of results obtained from the tests.



Who can attend: The workshop is open to research scholars/ postgraduate students from all Institutes, Colleges and Universities who want to develop hands-on expertise/skill to handle sophisticated analytical and energy audit instruments.

How to Apply? <https://forms.gle/jtpHeabSoevuF7TV6>

Skilled Experts from

- *PerkinElmer: DSC, FT-IR, NIR, TGA, TGIR, CHNO Analyzer*
- *Energy Audit: Electrical and Thermal Calibration Session: Temperature, Pressure and Electrical Parameters*
- *Tech Science & Global: ECM/Solar Simulator, Bomb Calorimeter, TOC*
- *Water Quality Testing: Acidity/Alkalinity, EC, Total Solids and Ions*

Important Dates

Registration opens

May 29th, 2025

Last date for application

August 10th, 2025

Fee Details

Student or Scholar	INR 2150
Faculty	INR 3000
Industry Person or Others	INR 5000

Event Organizer

Dr. V. M. Jaganathan
Asst. Professor, DEE

Dr. M. Premalatha,
Professor, DEE

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