National Institute of Technology - Tiruchirappalli
Department of Energy and Environment (DEE)

HANDS-ON WORKSHOP ON ENERGY SYSTEMS MODELLING AND SIMULATION USING CYCLE-TEMPO SOFTWARE

(PARTIALLY SPONSORED BY ASIMPTOTE, THE NETHERLANDS)

18TH AND 19TH DECEMBER, 2018

About NIT Trichy

National Institute of Technology Trichy is one of the 31 National Institutes of Technology established by the Government of India. Today, NITT is an autonomous co-educational technological institute, with 10 undergraduate and 28 graduate programs. Undergraduate programs lead to the B.Tech degrees, while the graduate students and postgraduate students earn M.Tech, M.S. (by Research) and Ph. D degrees respectively. NITT also has a management and architecture school. NITT is located in Thuvakudi on the Trichy-Tanjore national highway, 17 km from Trichy Railway Junction.

About DEE

Centre for Energy and Environmental Science and Technology (CEESAT) was established in 1995 under UK - India REC project and transformed into DEE in 2014. M.Tech. (Energy Eng.), an interdisciplinary full time programme is offered since 1996 onwards. The research and development activities of DEE include CO_2 capture and sequestration, effluent treatment using solar energy / phyco-remediation, efficient utilization of solid fuels by combustion and gasification, energy modelling, wind energy, Solar PV/ Thermal systems, energy efficient buildings, energy storage devices and CFD. Apart from research, the department offers consultancy services on solid and liquid testing, calibration and energy auditing to other academic institutes and industries. The testing labs of the DEE are certified with ISO 9001: 2008. The department is committed to convert its research into a real time technology transfer to the society and industry were it meets out its ultimate objective.

About Cycle-Tempo Software

Cycle-Tempo is a flow-sheeting program for the thermodynamic analysis and optimization of energy conversion systems. It is one of the few software packages capable of doing exergy analysis. This decade-old software has a large user community, including energy companies, consultancy firms and R&D organizations. This software was originally developed by Delft University of Technology. It is further developed by

Asimptote BV (Advanced SIMulation for Power and TOTal Energy systems), Netherlands, in close co-operation with the original developers.

Workshop Objectives

- Build models of energy systems
- Construct flow sheet and Integrate systems
- Perform energy and exergy analysis of complete plant
- Optimization of system configuration and system parameters

Target Participants

This workshop is for personnel from industry, academia and research organization/institutes.

Sessions will be handled by experts from academia. Theoretical sessions will be followed by hands-on lab session. **Participants will get a free fully functional version of the software with license, valid for 30 days (provided, participants bring their own laptops).**

Category	INR
Faculty Members of Academic Institutes	2000*
Research scholars and PG/UG Students	1000*
Scientist / Industry	5000*

* Inclusive of 18% GST

How to register

Registration fee must be paid in the form of DD in favour of **"The Director, NIT Trichy"**, payable at SBI, NIT, Trichy. The DD copy must be submitted along with the application form to **ceesat.events@gmail.com** and by post to the following address on or before **14th December, 2018.**

> **Dr. N. Anantharaman,**
> **HoD-Dept. of Energy and Environment,**
> **National Institute of Technology - Tiruchirappalli (NITT),**
> **Tamilnadu-620015**

Application Form

Name: Ms./Mr./Dr.

Designation:

Date of birth & Age:

Email :

Mobile No.:

Accommodation required: Yes / No

Official Mailing Address :

DD No.:

Date   Signature

Limited Participants (40 Nos.)- Selection on first-come-first-serve basis. No TA/DA will be provided.

Accommodation (on payment basis) will be arranged inside the campus, based on availability.

Coordinators

Dr. M. Premalatha

Dr. Ruben Sudhakar D

Contact Details

Mr. Gopi (gopicryo@gmail.com, +91 8608475657)

Mr. Ezhilan V (ezhil1110@gmail.com, +91 9789285711)