

## ABOUT TCE

Thiagarajar College of Engineering (TCE), Madurai, an autonomous institution affiliated to Anna University, is one among the several educational and philanthropic institutions founded by the philanthropist and industrialist Late. Shri. Karumuttu Thiagarajan Chettiar.

- TCE was established in the year 1957
- TCE is funded by Central and State governments and the Management
- The Programmes in TCE are approved by AICTE
- TCE was granted autonomy in 1987
- TCE has been accredited by NAAC with A+ grade
- TCE has secured 71<sup>st</sup> rank in NIRF 2021
- TCE offers nine UG programmes, nine PG programmes, and 5 years integrated MSc Data Science programme

## Target Audience

Faculty members working in recognized Engineering Institutions, University Departments, R&D organizations, Professionals from Industry, Research Scholars and others.

## Patron

**Dr. M. Palaninatharaja**, Principal i/c

## Convenor:

**Dr. T. Vel Rajan**, Professor and Head

**Dr. S. Chandran**, Associate Professor & Dean III

## Programme Coordinators:

**Dr. V. Ravisankar**, Assistant Professor, Civil

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**Dr. R.K.C Jeykumar**, Assistant Professor, Civil

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**Mrs. K. Keerthy**, Assistant Professor

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Last Date of Receiving Applications : 21-Dec-2021

Selection Intimation to Participants : 21-Dec-2021

Mode of Conduct: Online via Google Meeting

E certificates and **Fluidyn Panache Software license** for 3 months will be provided



**64**  
YEARS  
1957-2021  
Celebrating  
Academic Excellence

# THIAGARAJAR COLLEGE OF ENGINEERING MADURAI - 625015

(A Govt. Aided Autonomous Institution affiliated to Anna University)

## Faculty Development Programme On

## Management of Air Quality Using Modelling and IoT for resilient Sustainable Smart Cities

23- 29, December, 2021

Organized by  
Department of Civil Engineering



[www.tce.edu](http://www.tce.edu)

## ABOUT THE PROGRAM

Air Pollution has serious effects on life, materials and environment. The release of Greenhouse Gases increases the earth's temperature causing Global Warming and Climate Change. Air Pollution is mostly caused by humans to derive energy from the burning of fuel and others.

The program provides an overall view of Air Pollution happening in cities along with its effect on all forms of life, materials, & environment. The program also covers risk assessment on health due to air pollutants. Also, it deals with applications of sensors for monitoring of air pollutants. Air Pollution Forensics for source identification are also covered.

This five-day faculty development program provides insight into various tools used for modelling, exclusive training on Fluidyn Panache 3D Dispersion modelling Software to assess the spread of pollutants and also application of this model with IoT for effective management strategies.

## ABOUT THE DEPARTMENT

Department of Civil Engineering was established since the inception of the college in 1957 and has grown into a full-fledged department with specializations in all the major areas of Civil Engineering. The department works on the theme area of Eco-friendly Structures. The Department has taken up various sponsored research programs and offers consultancy services with TNSCST, TNPCB, MHRD, PWD, SERC, UGC, DST, AICTE & DHAN foundation apart from regular teaching and research activities.

## REGISTRATION DETAILS

### PROGRAM FEE

Program Fee: Rs.590/- (Inclusive of 18% GST) for Faculty and Research scholars.  
Rs.1180/- (Inclusive of 18% GST) for persons from R&D organizations, Industry and others.

#### Step 1:

- (i) Click the link given (or) Search <https://eazypay.icicibank.com>.
- (ii) Type "T C E" with Space (as mentioned) in the "Enter Institute Name"  
Select the Last Option\* ("T C E SOUVENIOR") from the Drop down menu.
- (iii) Enter the Required Information ( Email id, Mobile number, Participant Name, Profession, College/Organisation Name, Designation, Department, FDP Registration fee)

**Step 2:** Pay the fees Note down the Eazypay Transaction ID/Ref No.

**Step 3:** Fill the Google Form for Registration through Link: <https://bit.ly/3ygvEz2>

## RESOURCE PERSONS



**Dr. K. Palanivelu,**  
Professor, CES, Former Director CCCDM, Anna University, Chennai.  
**Topic: Towards Carbon neutral to stop raising Global Temperature.**



**Dr. R. Sivacoumar,**  
Senior Principal Scientist, CSIR-NEERI, Chennai Zonal Centre, Chennai.  
**Topic: Air pollution Monitoring and Modelling.**



**Dr. George K Varghese**  
Professor, NIT Calicut, Kerala  
**Topic: Air Pollution Forensics**



**Dr. M.K. Ravi Varma**  
Professor, NIT Calicut, Kerala  
**Topic: Spectroscopic monitoring of Atmospheric Gas Pollutants and aerosol optical properties (for climate applications)**



**Dr. S.T. Ramesh**  
Professor, NIT Trichy, Tamilnadu.  
**Topic: Plant based remediation of Air Pollution**



**Dr. S. Karthikeyan**  
Associate Professor, CES, Anna University, Chennai.  
**Topic: Air Quality Modelling**



**Dr. Dheeraj Alshetty**  
CEO, Envitran Smart Systems, Chennai.  
**Topic: Modeling tools for Air Quality Management.**



**Abinaya Sekar,**  
NIT, Calicut, Kerala.  
**Topic: Air pollution and Human Health Risk Assessment.**



**FLUIDYN Consultancy P. Ltd.,**  
Bangalore, Karnataka.  
**Topics: Dispersion Modeling Case Study Demonstration, Introduction to Real-Time Platform (IoT) for Continuous Monitoring & Forecasting of Air Quality, Case Study presentation for Sensor Mapping for Air Quality Monitoring.**

**Dr. Balbir Singh**  
Former Head, MECON Limited (A Govt. of India Enterprise)  
**Topic: Appropriate instruments for air quality and emission monitoring.**