#### a Con **Advisory Committee**

Dr. Alokesh Pramanik, Curtin University, Perth, Australia.

Dr. Aramudhan M, PKIET, Karaikal.

Dr. Harigovindan V P, National Institute of Technology, Karaikal.

Dr. Jayanthi D, Gokaraju Rangaraju Institute of Engg & Tech., Hy

Dr. Karthikeyan J, National Institute of Technology, Trichy.

Dr. Karuppanan P, Motilal Nehru National Institute of Technolog

Dr. Krishna Kumar S, Defence Research & Development Organis

Dr. Latha Mercy E, Government College of Technology, Coimbat

Dr. Parthasarathi N.L., IGCAR, KalpakkamDr. Raja P, National Insti

Dr. SayedBateni, University of Hawaii at Manoa, United States.

Dr. Senthilkumar M, NITTTR, Chennai.

Dr. SenthilVadivel T, Adamas University, Kolkata.

Dr. Shishay Amare Gebremeskel, Ethiopian Institute of Tech., -Mekelle, Ethiopia.

Dr. Suganthi S, CHRIST University, Bangalore.

Dr. Sundaravadivazhagan B, Al Musanna College of Technology, Sultanate of Oman.

Dr. Vasu V, NIT, Warangal, Telangana.

Dr. Venkatakirthiga M, National Institute of Technology, Trichy.

Dr. YadetaChimdesa, Adama Science and Technology University, Ethiopia.

#### **Technical Committee**

Dr. Anandakrishnan V, National Institute of Technology, Trichy.

Dr. Anbazhagan N, Alagappa University, Karaikudi.

Dr. Arockiarajan A, Indian Institute of Technology, Chennai.

Dr. Arunachalam S, University of Technology and Applied Sciences, Oman.

Dr. Jayasankar T, Anna University, BIT Campus, Tiruchirappalli.

Dr. Kumaravelan G, Pondicherry University, Puducherry.

Dr. Malathy M, VeltechHightech Engineering College, Chennai

Dr. Manjula R, National Institute of Technology, Trichy.

Dr. Mathiyarasu J, CSIR-CERI, Karaikudi.

Dr. Mohan Reddy M, Curtin University, Malaysia.

Dr. Prabu K, National Institute of Technology Karnataka.

Dr. Rajkumar K, Saranathan College of Engineering, Tiruchirappalli.

Dr. Sakthivel V, National Institute of Technology Calicut.

Dr. Senthilkumar S, National Institute of Technology, Trichy.

Dr. Shankar K, Adama Science & Technology University, Adama, Ethiopia.

Dr. Sivaraja M, Nehru Institute of Technology, Coimbatore.

Dr. Subramanian B, CSIR-CERI, Karaikudi.

Dr. Theivarasu C, PSG College of Technology, Coimbatore.

Dr. Thiagarajan Y, Christ College of Engineering & Technology, Puducherry.



Address for Communication Dr. PP. Shantharaman, Professor / Mechanical, ICSTES-2025 Kings College of Engineering, Punalkulam, Near Thanjavur Pudukkottai Dt. - 613 303, India iconkce2023@gmail.com www.kingsengg.edu.in +91 99448 76644



Approved by AICTE, New Delhi Affiliated to Anna University, Chennai DLLEGE OF ENGINEERING Recognized under 2(f) & 12B, UGC

# International Conference on

"Sustainable Technologies in Engineering and Sciences"

[HYBRID MODE]



# Organized by

Centre for Promotion of Research (CPR) Kings College of Engineering (Autonomous) Punalkulam, Near Thanjavur, Pudukkottai District - 613 303 Tamil Nadu, India

# About the Institution

Kings College of Engineering (Autonomous) is an institution which was formed with the single aim of providing quality education to the poor and underprivileged students. KCE is a NAAC accredited institution approved by All India Council of Technical Education, New Delhi (AICTE) and is affiliated to Anna University, Chennai. The institution was established in the year 2001 on a sprawling campus of around 48 acres on the Thanjavur-Pudukkottai Highway and run by Raj Educational Trust (RET), Chennai. The institution offers seven U.G and four P.G programmes. The state of the art teaching methodologies are used to impart high quality education to the students. It also offers Ph.D. Programmes in ECE and Mechanical Engineering disciplines.

# About the Conference

The International Conference on Sustainable Technologies in Engineering and Science (ICSTES-2025) aims to bring together academic communities, researchers and scientists to exchange information, experiences and research results on all aspects of specialized and interdisciplinary areas. The conference provides an opportunity for everyone to network, exchange ideas and present their research to the international community.

# **Conference Topics**

Artificial Intelligence and Machine Learning

**Cyber Security** 

**Data Science & Cloud Computing** 

**Developments in Civil Engineering** 

Education, Online education - eLearning

Electronics & IoT

**Energy Sources** 

**Environmental Sustainability** 

Information & Communication Technologies

Materials & Manufacturing Processes

**Power Systems & Power Electronics** 

**Robotics & Mechatronics** 

Science & Mathematics

Sustainable Development in Construction

# Organizing Committee

#### **Patron**

Dr. R. Rajendran,

Secretary.

#### **Conference Chair**

Dr.J. Arputha Vijaya Selvi,

Principal.

## **Publication Chair**

Dr. S. Sivakumar,

Vice Principal.

Convener

Dr. P.P. Shantharaman,

Head /CPR

# Steering Committee

Dr.R.Saravanan,

Head, Dept. of Civil.

Dr. S.M. Uma,

Head, Dept. of CSE

Mrs. N. Mangaiyarkarasi,

Head, Dept. of ECE

Mr. R. Sundaramoorthi,

Head, Dept. of EEE

Dr. T. Pushparaj,

Head, Dept. of Mech.

Dr. V. Suresh Kumar,

Head, Dept. of S&H

### Coordinators

Mr. D. Nandhakumar,

Dept. of Civil

Ms. S. Abikayil Aarthi,

Dept. of CSE

Dr. A. Herald,

Dept. of ECE

Dr. G. Suganya,

Dept. of EEE

Dr. S. Sabanayagam,

Dept. of Mech.

Dr. S. Udhayakumar,

Dept. of S &H

# **Publication**

All accepted papers registered for presentation will be published in the conference proceedings with ISBN. Selected papers will be recommended for publications in Scopus/ WoS/UGC journals.

# **Important dates:**

Registration Opens on :12.02.2025 Last Date for Submission :15.04.2025 Last Date for Registration :30.04.2025

# **Registration fees:**

UG/PG Students :Rs.750/-Research Scholar & Faculty / :Rs. 1000/-

Industrialist



Technical Partners





