

## About TCE

Thiagarajar College of Engineering (TCE), Madurai, an autonomous institution affiliated to Anna University, is one of the highly recognized Engineering Institutions in India by MHRD. TCE is a self-sustained educational institute with nearly 219 faculty members, 4300 students and 200 administrative and supporting staff. More than 60% of the faculty members hold doctoral degrees from reputed national and international Institutions. The institution has fifteen academic departments (offering eight UG programmes and seven PG programmes), Incubation center and more than fifty laboratories aiding hands-on learning of products and system building.

## About Department

Department of Mechanical Engineering in TCE is as old as the college itself, established in 1957 and granted autonomy in 1987. It offers Bachelor of Engineering (B.E) degree programme in Mechanical Engineering since inception. The Department has been recognized as Research Centre of Anna University, Chennai and Quality Improvement Programme (QIP) Center of AICTE. The department has undertaken research projects funded by DRDO, DST - SERB, DST - FIST, UGC, AICTE - RPS, AICTE - MODROBS, ISHRAE and TEDA. The department is backed with highly qualified and professionally experienced faculty members and supporting staff. It has 18 academic laboratories and 8 research facilities with sophisticated equipment to carry out research in the emerging area.

The department has established in collaboration with TVS Motors Ltd, an Industry Sponsored Research Centre (TCE-TSS - Centre for Automotive Research) equipped with modern machines and instruments/test rigs in 2019. Department has implemented a unique Visionary Learning Community of India (VLCI) approach in collaboration with M/s. TAFE Pvt. Ltd., Madurai.

## Important Dates

Last Date of Receiving Application: 14.04.2024

Selection Intimation to Participants: 15.04.2024

Mode of Conduct: Offline



## THIAGARAJAR COLLEGE OF ENGINEERING

Madurai - 625015

A Govt. Aided Autonomous Institution affiliated to Anna University

### Three Day Workshop

on

### Advancements in Ceramic Matrix Composites and Metal Matrix Composites (ACMCMC)

16<sup>th</sup>April 2024 - 18<sup>th</sup>April 2024



**Organized by**

**Department of Mechanical Engineering**

**Thiagarajar College of Engineering**

**Madurai - 625 015**

**Coordinators**

**Dr. P.Maran**

**Dr. V. Balasubramani**

**Dr. S Arunkumar**

## About the Program

Technological progress results in the continuous exploration of new materials with an improved mechanical property. Generally, new materials emerge because of a natural desire to improve the performance and efficiency of mechanical systems. Strength of the materials have been improved by adding different types of reinforcements at different sizes to form a composite material called Ceramic Matrix Composites (CMC) and Metal Matrix Composites (MMC). They are metals reinforced with other metal, ceramic or metallic compounds. This workshop provides the detailed information about Metal Matrix Composites and Ceramic Matrix Composites, Applications, Manufacturing processes, Mechanical and metallurgical characterization.

## Eligibility

Under Graduate students, Post Graduate Students, Research scholars, Faculty members of Mechanical Engineering, Production Engineering, Automobile Engineering, Mechatronics and Professionals from Industries.

**Seat Limit:** 80 (*First come First serve*).

## Program Topics

- Recent Advancements in Ceramic Matrix Composites
- Ceramic 3D printing
- Advancement in processing Techniques for Metal Matrix Composites
- Mechanical and Metallurgical Characterization of Hybrid Metal Matrix Composites
- Characterization of Metal Matrix composites
- Case Studies on the Suitability of Magnesium Metal Matrix Composites.

## Coordinators:

Dr. P. Maran, Professor, 98421 20830, [pmmech@tce.edu](mailto:pmmech@tce.edu)

Dr. V. Balasubramani, Asso.Professor, 9843147747, [ybmech@tce.edu](mailto:ybmech@tce.edu)

Dr. S. Arunkumar, Asst. Professor, 94407 53026, [sakmech@tce.edu](mailto:sakmech@tce.edu)

## Resource Persons:

### Dr. K. Kalaichelvan

*Professor, Anna University, Chennai.*

### Dr. K. Lingadurai

*Professor and Dean, Anna University Regional Campus, Madurai.*

### Dr. B. Stalin

*Assistant Professor, Anna University Regional Campus, Madurai.*

### Dr. P. Maran

*Professor, Thiagarajar College of Engineering, Madurai.*

### Dr. V. Balasubramani

*Associate Professor, Thiagarajar College of Engineering, Madurai.*

### Dr. S. Arunkumar

*Assistant Professor, Thiagarajar College of Engineering, Madurai.*

## Registration Details

Program Fee: Rs.600/- (plus 18% GST) – Rs. 708/- (Rupees Seven hundred and Eight only)

## Steps to be followed:

- Click the link given (or) Search <https://eazypay.icicibank.com/>
- Type “T C E” with Space (as mentioned) in the “Enter Institute Name” and Choose the Last Option\* (“T C E SOUVENIOR”) from the Drop-down menu.
- Enter the Required Information (Email id, Mobile number, Name, Designation, College Name, Department, Registration fee)
- Pay the fees of Rs. 708/- and note down the eazypay transactionID and save copy of the receipt.
- Make your Registration <https://forms.gle/t3mERqZqUFqPCGMH7>
- Submit Google Form