



**Thiagarajar** 65  
**College of Engineering** YEARS  
 1957-2022  
*where quality and ethics matter* Celebrating Academic Excellence

Madurai - 15

## One Week Faculty Development Program

on

## High Performance Computing

31.10.2022 to 05.11.2022

Online Mode



Organized by

Department of  
**Computer Science and Engineering**

Coordinators

**Dr. G. Madhupriya**  
**Dr. K. Narasima Mallikarjunan**  
**Ms. Raja Lavanya**

### About the College

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 were approved by AICTE and granted autonomy in 1987.
- TCE offers 9 UG programmes, 10 PG programmes, and 5 years integrated M.Sc Data Science.

### About the Department

The FIST Supported Computer Science and Engineering Department was established in the year 1984. The theme area of the department is Knowledge Engineering. The Vision of the department is "Excellence in Computer Science and Engineering education and research". The UG programme BE(CSE) is accredited for 6 years by NBA.

- The Department offers well-defined and unique curriculum broadly covering Theoretical Computer Science, Systems and Technology.
- It has laboratories supported by Microsoft, INTEL, TCS and HP.
- It is a recognized Research Center affiliated to Anna University and QIP Center offering Part-time and Full-time Ph.D Programme.
- Faculty members of the department specialize in the research groups such as AI & Data Science, Systems Engineering & High Performance Computing, Software & Data Engineering and Network & Security with quality publications in IEEE, Elsevier, Wiley, Taylor & Francis etc.
- It has the privilege of having completed many R&D

projects from RCI, AICTE, UGC, DIT, DST, Honeywell Technology Solutions and Linked-In.

- It was a consortium partner of CDBR Smart and Secure Environment project sponsored by NTRO, New Delhi.
- It has collaboration with EMC Data Storage Systems, VMware, Yahoo India, Unity Software and Red Hat.
- It is responsible for design and development of College Management Information System which has received many National Level Recognitions.

### About the FDP

Last six decades, the High Performance Computing (HPC) technology has been at the forefront of the Computer Science Research and complex Scientific and Industrial simulations. By overcoming barriers like memory bandwidth bottleneck and low performance/watt, HPC has now achieved the major milestone of ExaFlops performance. Further, HPC is now expanding its foray into the Artificial Intelligence (AI) and other Hi-Tec domains.

Nowadays, innovative technologies like the Internet of Things (IoT), Artificial Intelligence (AI), autonomous vehicles, Augmented Reality /Virtual Reality (AR/VR) and digital twins generate voluminous data and demand huge computing power to gain insights into the data. Streaming a live sporting event, tracking cyclones, genetic sequencing, drug discovery and predicting stock market are few real world use cases. Automotive, Aerospace, Pharmaceutical, and Entertainment industries and Leading Research Organizations have been heavily using HPC systems deployed on the Edge/Datacenter/Cloud.

The objective of this Faculty Development Program (FDP) is to introduce to the participants, the notable trends in HPC namely

Accelerated computing using GPUs, Energy-efficient computing, Cloud HPC and Automation. The FDP will also provide hands-on in Programming models.

### Topics Covered

1. Fundamentals of High Performance Computing
2. High Performance Computing Architecture
3. HPC Software Framework
4. Accelerated Computing
5. High Performance Computing Applications
6. High Performance Computing Technology Trends and Future

### Resource Persons

**Dr.P. Sambath Narayanan**

Director  
 Dataever Consulting

**Mr. Thambyraj**

Director General  
 Cloud Computing Innovation Council of India  
 CCICI

### Participants

The Faculty Development Program is open to Faculty of Engineering Colleges, Arts and Science, Research Scholars, PG Scholars and Industry people.

### Registration Fee

The registration fee includes presentation materials and an E-certificate of participation.

Faculty / Industry Member / Research Scholar / PG Scholar : Rs.885/- (Rs.750+18% GST)

### Mode of Payment

Participants can pay the registration fee by using the online link given below

### Important Dates

Last date for Registration: 26.10.2022

### Online Registration Procedure

- Step 1:** Make your Registration at <https://forms.gle/315ofDRBgCXCXUggX7>
- Step 2:** Complete your Payment
- 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, Mobilenumber, Name, Designation, College Name, Department, FDP Registration fee)
- Step 3:** Pay the fees with GST  
 Note down the eazypay Transaction ID and save copy of the receipt.
- Step 4:** Update Google Form with Transaction ID and Receipt copy
- Step 5:** Submit the Google Form

### Contact Details

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