

About the College

Thiagarajar College of Engineering (TCE), established in 1957 by the philanthropist Karumuttu Thiagarajan Chettiar, is a Government Aided Autonomous Institution affiliated with Anna University, Chennai, and approved by AICTE. TCE offers 11 Undergraduate, 7 Postgraduate, and Ph.D. programs in Engineering, Architecture, and Science. Nestled in a serene, eco-friendly campus, TCE is renowned for its top-tier infrastructure and commitment to academic excellence.

TCE has embraced reforms in its teaching-learning process, including a Competency-Based Curriculum, Outcome-Based Education, and the CDIO framework since 2018, emphasizing hands-on training. The launch of MOOCs in 2021 and the Thiagarajar Research Fellowship (TRF) for Ph.D. scholars underscore TCE's focus on research innovation. Industry collaborations with global leaders, such as TVS Motors, have enhanced curriculum design and established cutting-edge labs like the T S Srinivasan Centre for Automotive Research.

TCE's participation in the Technical Education Quality Improvement Programme (TEQIP) under MHRD has driven faculty development, industry-supported research, and governance improvements, solidifying its reputation as a leader in technical education.

About the Department

The Department of Applied Mathematics and Computational Science of our college offers 5 Year Integrated M.Sc., (Data Science) Degree Programme from the academic year 2019-2020. This is an inter-disciplinary programme covering Applied Mathematics, Statistics and Computer Science. The curriculum of this programme comprises - Theory, Theory cum Practical and Practical Courses. The programme has foundation courses, professional core courses, professional elective courses and employability enhancement courses. The courses are designed by qualified faculty members of our college with the support of professors from Indian Institute of Technology (IIT) Madras, Institute of Mathematical Science (IMS), Chennai and experts from leading software industries.

This programme will enable the students of Data Science to apply suitable techniques and tools to real-time applications drawing on appropriate and relevant concepts and models from the computational sciences. These students will be positioned to pioneer new developments in this field, and to be leaders in Informatio

Who can attend?

- Industry Professionals
- Faculty members
- UG,PG students & Research Scholars

Depts. of ECE / CSE / IT / MCA / M.Sc. from Engineering Colleges / Arts & Science Colleges / Universities.



Thiagarajar 68
College of Engineering YEARS
1957-2025
Celebrating Academic Excellence
where quality and ethics matter



CENTRE FOR CONTINUING EDUCATION

**IBM SPONSORED TWO-DAY FDP ON
“LEVERAGING ARTIFICIAL INTELLIGENCE
AND GENERATIVE AI ”**

September 12-13, 2025



ORGANIZED BY

**Dept. of Applied Mathematics and
Computational Science**

**Thiagarajar College of Engineering
Madurai- 625 015
Tamil Nadu**

About the Programme

The IBM Sponsored Two-Day Faculty Development Programme (FDP) on "Leveraging Artificial Intelligence and Generative AI" is designed to provide participants with a comprehensive understanding of modern AI technologies and the rapidly evolving field of generative AI. It aims to bridge the gap between theoretical knowledge and practical implementation by covering core AI concepts such as machine learning, natural language processing, computer vision, and deep learning, alongside emerging tools like ChatGPT, DALL-E, and other foundation models. The programme empowers learners to explore how generative AI can be utilized to automate tasks, generate content, personalize user experiences, and drive innovation across industries including education, healthcare, agriculture, manufacturing, and creative sectors.

The sessions are delivered by expert speakers and include hands-on demonstrations, real-world case studies, and interactive discussions to ensure holistic learning. Participants will gain insights into ethical AI use, model interpretability, and strategies for responsibly integrating AI into business and academic workflows. Whether you're a student, educator, developer, or business professional, this programme serves as a launchpad to adopt and innovate with AI and generative technologies in your respective domain.

The programme encourages innovation by showcasing successful AI-driven projects and prototypes. Collaborative group activities and mini-projects will foster practical skills and team-based learning. Special focus will be given to how generative AI can enhance productivity in content creation, coding assistance, and data analysis. By the end of the programme, attendees will be equipped to conceptualize and develop AI-based solutions in their respective fields.

Topics Covered

- Introduction to Artificial Intelligence and Generative AI
- Deep Dive into Generative AI
- Hands-On: Generative AI using TensorFlow/PyTorch
- AI Ethics and Responsible AI
- Agentic AI and Advanced Topics
- Hands-On: Building an Agentic AI System
- Tools and Frameworks for AI Development
- Explainable AI (XAI), Federated Learning

IMPORTANT DATES

Last date of receiving applications:

September 10, 2025

MODE OF CONDUCT: Physical (Offline)

Registration Fee Details

Program Fee:

Rs. 590/- (Rupees Five Hundred & Ninety only)

Inclusive of 18% GST

<https://forms.gle/p52V9N4XJpJWu3Ze7>

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Organizing Committee

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Principal

CONVENOR

Dr.S.Parthasarathy

HOD-Applied Mathematics and
Computational Science (Data Science)

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