About the College

Thiagarajar College of Engineering (TCE), established in 1957 by 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.

Eligibility

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

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

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 of 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 Information Technology industry, the public sector, and academia.

Details of the Workshop are available in the website:
www.tce.edu

Program Fee:

Rs. 590/- (Rupees Five Hundred & Ninety only) Inclusive of 18% GST

Kindly Scan the QR Code or Click the link for registration

https://shorturl.at/YFZ6m

All Payments Should be made through NEFT

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DRDO Sponsored Two Day Workshop on

EXPLAINABLE AI (XAI) FOR CYBER SECURITY AND RESILIENCE

16–17, December 2024

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

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ACCREDITED WITH GRADE A++ NAAC

ORGANIZED BY

Dept. of Applied Mathematics and Computational Science

Thiagarajar College of Engineering
Madurai- 625 015
Tamil Nadu

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About the Programme

The Purpose of this workshop is to helps cybersecurity professionals, Researchers, Academicians understand why an AI system made a particular decision or flagged certain activities as suspicious. This transparency is crucial for auditing, compliance, and improving the system's performance. XAI builds trust among users and stakeholders. XAI can help analysts identify new and emerging threats by explaining patterns and anomalies detected by AI algorithms. XAI workshop facilitates human-machine collaboration by enabling cybersecurity analysts to interact with AI systems more effectively. The participants can authenticate, interpret, and refine the outputs of AI systems based on the explanations provided and they can learn many AI algorithms used in cybersecurity, such as deep learning models, can be complex and opaque, making it challenging to generate meaningful explanations without sacrificing accuracy.

Topics Coverage

- **Interpretability in Intrusion Detection Systems (IDS)**
- **Explainability for Malware Detection and Classification**
- **Cyber Security tools and techniques**
- **Transparency in User Behavior Analytics (UBA)**
- **XAI for Data Privacy in Cybersecurity**
- **Adversarial Attacks and Explainability**

Organizing Committee

CHIEF PATRON

Mr.K.Hari Thiagarajan
Chairman and Correspondent

PATRON

Dr.L.Ashok Kumar
Principal

CONVENOR

Dr.S.Parthasarathy
HOD-Applied Mathematics and Computational Science (Data Science)

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TRAVEL & ACCOMODATION

Participants are requested to make their own arrangement for travel and accommodation

Resource Persons

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