

About TCE

Thiagarajar College of Engineering (TCE) is a Government-Aided Autonomous Institution, established in 1957 by the philanthropist Late Karumuttu Thiagarajan Chettiar. TCE is affiliated with Anna University, Chennai, and approved by the All India Council for Technical Education (AICTE). TCE offers a wide array of Undergraduate, Postgraduate and PhD Programs across various disciplines of Engineering, Architecture and Science.

The campus is set within a serene and eco-friendly environment surrounded by dense vegetation and the best infrastructure facilities. TCE has consistently embraced reforms and upgrades in its Teaching-Learning processes. Noteworthy initiatives include the implementation of a Competency-Based Curriculum and Outcome-Based Education. Since 2018, TCE has adopted the Conceive Design Implement Operate (CDIO) framework, shaping curriculum design, pedagogical methods, and assessment techniques with adequate hands-on training for students.

The institution's programs have been accredited by NBA since 1998, indicating compliance with quality standards in technical education. The programmes offered at the institution have garnered numerous accolades including accreditation by NAAC with a CGPA of 3.56 (out of 4.0) securing A++ Grade in Cycle 2. The institution launched Massive Open Online Courses (MOOCs) in 2021 and introduced the Thiagarajar Research Fellowship (TRF) scheme for PhD research scholars, furthering its commitment to academic excellence and research innovation. In 2024, the institute received a Platinum Certificate in 5S Audit for having a clean and sustainable campus.

About the course

The event focuses on the use of AR & VR to enhance cognitive development, spatial awareness, and interactive learning for young minds. Participants will explore the practical applications of these immersive technologies in fields such as STEM, design, and simulation-based education. The event highlights how AR & VR are transforming industries like medicine, engineering, and entertainment, showcasing their potential to shape the future for the next generation.

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. It offers 2 UG program BECE and BECE AI&ML and one PG program MECSE. The UG program is six years accredited by NBA. The Department has Laboratories supported by Microsoft, INTEL, TCS and UNITY. The faculty members of the department specialize in research groups of AI & Data Science, Systems Engineering & High Performance Computing, Software and Data Engineering and Network Security. The Department has completed many R&D projects from RCI, AICTE, UGC, DIT and DST. The Department was a consortium partner of CDBR Smart and Secure Environment project sponsored by NTRO, New Delhi. The department is responsible for design and development of College Management Information System which has received many National Level Recognitions. The Department has collaboration with Microsoft, EMC Data Storage Systems, VMware, Yahoo India, Adobe and CTS. The department has experienced faculty members with PhDs and Publication in National and International Journals.

About The Centre for Continuing Education (CCE)

CCE will facilitate various departments of our college to conduct a range of seminars, workshops and faculty development programmes to enhance practical skills and encourage interdisciplinary learning thereby leading to knowledge upgradation for students, research scholars and faculty members of our college and other institutions as well. The establishment of the CCE will also enable us to leverage our existing academic resources to provide high-quality, flexible education tailored to the needs of learners from different backgrounds.



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



CENTRE FOR CONTINUING EDUCATION (CCE)

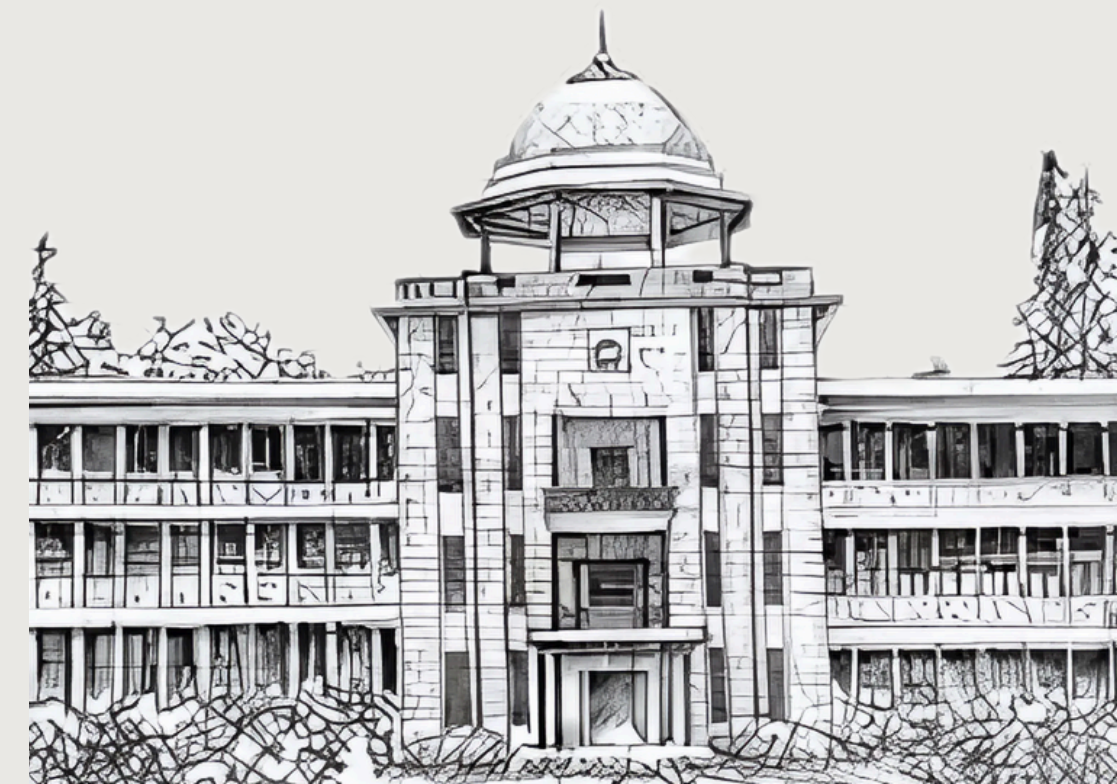
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A THREE DAYS SHORT-TERM CERTIFICATION COURSE FOR SCHOOL STUDENTS

ON

AR & VR ADVENTURES FOR YOUNG MINDS

MAY 5 -7, 2025



Learning Objectives

- Understand AR and VR basics including core concepts history and differences between AR VR and MR
- Explore real world applications and discover how AR and VR are used in education healthcare gaming and industry
- Gain practical skills in mobile AR 3D modeling motion tracking and immersive interactions
- Build AR and VR projects by creating games AR effects and virtual experiences using Unity and Meta Quest 2

Topics to be covered

- Introduction to AR & VR
- Applications of AR & VR- Education, healthcare, gaming, entertainment, and industry use cases
- Hands-on AR & VR Experiences
- Mobile AR Concepts & Technologies
- Basics of 3D modeling, motion tracking, and rendering
- Role of sensors, AI, and immersive interaction in mobile and headset-based AR/VR
- Career paths in AR/VR development and design
- Practical Training on:
 - Introduction to 360 degree immersive Videos
 - Navigation in Virtual world using Meta quest 2 HMD
 - Basic 2D game design in Unity using Visual Scripting in Unity
 - Training for creation of 3D Games using Unity
 - Creating simple AR effects using mobile apps
 - Learning resources, free tools, and platforms for beginners in Unity

Course Duration

3 days (6 hrs /day)

Time : (9.30 AM -12.30 PM and 1.30 PM -4.30 PM)

Organising Committee

Chief Patron

Mr. K. Hari Thiagarajan

Chairman and Correspondent

TCE, Madurai

Patron

Dr. L. Ashok Kumar

Principal

TCE, Madurai

Convenor

Dr. S. Mercy Shalinie

Professor, Head and Dean (MIS)

Department of CSE

TCE, Madurai

Coordinators

Dr. N. Shivakumar , Associate Professor.CSE.

Co-Coordiators

Dr.Raja Lavanya, Assistant Professor, CSE.

Dr.K.Indira, Assistant Professor, CSE.

Dr.C.Santhiya, Assistant Professor, CSE.

Ms.G.Bhavani, Assistant Professor, CSE.

Contact

Dr.K.Indira - 94880 75169.

Dr.C.Santhiya - 94422 73897.

Target Audience

School Students (6th-12th Std)

Registration Fee

Rs.500 (inclusive of 18% GST)

Mode

OFFLINE

Venue

CSE - Unity Multimedia lab

Registration Details

Step-1: Complete the payment via

<https://eazypay.icicibank.com>

Step-2: In Enter Institution name field, Type “ T C E SOUVENIOUR CCE “.

Step-3: Enter all the mandatory fields (In Designation field, enter “ Student ”, In College Name field, Enter School Name, In Department field, Enter your standard (Eg: VI, VII), Title of the Programme (Short-term certification course for school students :

Exploring the Future: AR & VR Adventures for Young Minds) and Coordinator Name : Dr. N. Shivakumar).

Step-4: Click show details and enter OTP sent to your Mobile number.

Step-5: Pay the fee and download the eazypay transaction receipt.

Step-6: Register via

<https://forms.gle/WksDrCk3Tsk4pMUU8>

or Scan QR Code.

