About the College

Thiagarajar College of Engineering (TCE), established in 1957 by philanthropist Sri. 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. The launch of MOOCs in 2021 underscore TCE's excellence in academic innovation.

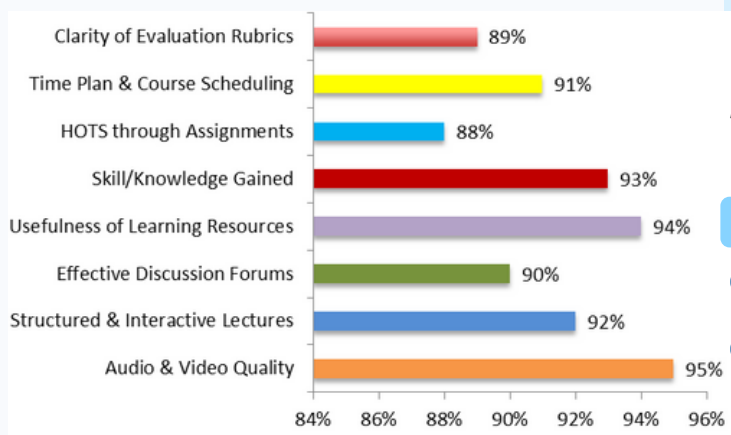## About TCE Online Certification Courses

TCE has prior experience in successfully offering its own online courses that combine the best of both worlds— theoretical knowledge and practical application.

Previous offerings

TCE extended its reach by offering 20 expertly designed online certificate courses to external participants, attracting demonstrating strong engagement and sustained commitment. Participants came from 25 reputed institutions and industries across India, including NIT Calicut, VIT, SRM, Accenture, and Bangalore International Airport Ltd., reaffirming the positive impact and credibility of TCE's online education initiatives.

- **138 registrations**
- **88 completions (64% completion)**

Feedback from the participants

Category	%
Clarity of Evaluation Rubrics	89%
Time Plan & Course Scheduling	91%
HOTS through Assignments	88%
Skill/Knowledge Gained	93%
Usefulness of Learning Resources	94%
Effective Discussion Forums	90%
Structured & Interactive Lectures	92%
Audio & Video Quality	95%

Who can register?

- UG / PG Students
- Faculty of Education Institutions
- Industry/ Professionals

Maximum courses to be registered: 2

Registration Fee

300 INR / course

TCE Alumni : **270 INR / course**

Registration Procedure

Step1: Payment

Through ICICI Eazypay

- Visit https://eazypay.icicibank.com/
- Enter Institution name as 'T C E' with space and select the last option "T C E SOUVENIOR CCE"
- Enter the required details and title of the program as TCEMOOC
- Pay the registration fees and download the transaction receipt

Step2: Registration

Fill the registration form with transaction details: https://tinyurl.com/tce-mooc

On registration, login details will be communicated to the learners through their registered e-mail

Important Dates

- Course Registration on or before: **August 4, 2025**
- Course Commencement : **August 11, 2025**

Following a great success with the highlighting positive feedback, the courses are now available for a second offering, welcoming new participants from both academia and industry.

To know more on TCE Online Courses

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www.tce.edu/tce-mooc

Thiagarajar
College of Engineering
where quality and ethics matter

68 YEARS
1957-2025
Celebrating Academic Excellence

TCE ONLINE CERTIFICATION COURSES AUGUST 2025

Organized by

Office of the Academics & Accreditation under Centre for Continuing Education

Core Courses

- **Industrial Automation**
  - Theoretical and practical aspect of industrial automation through Fluid power and PLC
- **FPGA based digital system design**
  - Technological background of FPGA, SPLD, CPLD, Verilog coding, Xilinx with solutions
- **Discrete Time Signal Processing**
  - Review of signals and systems , DFT&FFT algorithms, Filters and quantization
- **Smart Grid Implementation and Feasibilities**
  - Smart grid technologies, monitoring, smart metering and renewable energy
- **Theory of Computation: TOC made Easy**
  - Automata, Regular expression, CFG, Mathematical modeling
- **Visual Arts - a tool for creativity**
  - Integrate Visual Arts as a Fundamental Element in Engineering Education

Placement and Higher studies (Quick courses)

- **Programming in C - A Primer for Placement**
  - Structural and procedural programming concepts to build algorithmic logics into programs/applications
- **Data Structures - Placement Bootcamp**
  - Forum to understand and solve complex problems with data structures from the placement point of view
- **Database Management System: Road Map to Placement and Gate Preparation**
  - Core concepts and techniques of a DBMS, systematically designed for GATE Exams aspirant students
- **Programming in Java - A Practical Approach**
  - Object-oriented programming (OOP) concepts using Java from the placement perspective.

Courses in Frontier technologies

- **Predictive Analytics with Regression: Simplified**
  - Well demonstrated regression methods with metrics and improvement measures for engineering applications
- **Applied Data Science with Python Specialization**
  - Data science algorithms and hands-on activities using python including supervised and unsupervised
- **Data Visualization**
  - Data visualization techniques illustrated with python libraries for data plots
- **Applied Statistics with Python**
  - Collection of data, analyzing, interpreting and drawing conclusions from data demonstrated with python
- **Mobile Application Development using Android**
  - Platform to create innovative and robust mobile applications for the society
- **Blockchain**
  - Blockchain technology to innovate and improve business processes with practical implementation
- **Cloud Computing for Beginners**
  - Cloud Computing concepts and services, facilitating Cloud based services and development tools
- **Modern Software Testing Tools and Practices**
  - Agile approach, Test design & automation, Selenium, Jira & Cucumber
- **Big Data Tools and Techniques**
  - Analytics platforms (Hadoop Spark) , Scripting (PIG, Hive), NoSQL, Python for applications
- **Statistical Modeling and Analysis**
  - T-tools and permutation-based alternatives, Descriptive statistics and modeling

Duration of all courses	: 4 weeks
Programming in Java - A Practical Approach	: 8 weeks

Certification Policy

Assessment:

- Total scores awarded towards completion of course: 100
- Quiz for every week in stipulated time
  - Unlimited attempts are allowed
  - Last submission scores are considered
- Assignments (if applicable)
  - Evaluation by course coordinators
- Final Quiz covering all modules

Eligibility Criteria to receive certificates:

- Minimum 50% of consolidated scores in assessment
- Completion of course evaluation survey

Platform
- Courses will be conducted through online mode in CANVAS LMS

Chief Patron	**Mr. K. Hari Thiagarajan** Chairman and Correspondent
Patron	**Dr. L. Ashok Kumar** Principal
Convenor	**Dr.S.Baskar** Dean (Academics & Accreditation)
Coordinators	**Dr. C. Jeyamala** Associate Professor, IT **Dr. D. Anitha** Associate Professor, AMCS **Dr. R. Leena Sri** Associate Professor, CSE