



TAMILNADU COLLEGE OF ENGINEERING, COIMBATORE-641659
DEPARTMENT OF AUTOMOBILE ENGINEERING
ANNUAL DAY REPORT-2024

- The Department of Automobile Engineering has been started in the year 2006

PLACEMENT DETAILS:

- Department has maintained above 90 percentage placement in every year

2020-2021 = 95%

2021-2022 = 97%

2022-2023 = 100%

2023-2024 = 100%

MOU's:

- Our department has signed MOU with **MECHNIDO, Coimbatore.**
- Our department has signed MOU with **Maruti Suzuki Driving School, Thiruppur.**

RESEARCH ACTIVITIES:

- **Research Scholars** and Our students and other college students utilized our Research oriented Advanced IC Engines lab for testing the Alternate Fuels (Computerized Single cylinder VCR Engines).

FACULTY-FDP/WORKSHOP/ CONFERENCE ATTENDED:

- **Mr.D.Venkatesh** has completed 8 WEEK online NPTEL course on “**MANUFACTURING GUIDELINES FOR PRODUCT DESIGN**” organized by Indian Institute of Technology, Roorkee during Jan- Mar 2024.
- **Mr.G.Radhakrishnan** has attended a five day FDP on “ **EFFECTIVE RESEARCH PAPER WRITING STRATEGIES AND HIGH – IMPACT JOURNAL PUBLICATION TECHNIQUES** ” during 22nd-26th April 2024 organized by Department of Computer Applicatios, Kongu Engineering College,Perundurai.

- **Mr.G.Radhakrishnan** has attended two day workshop on **“SOLID WORKS”** conducted by **KPR Institute of Engineering and Technology,Coimbatore** from **14.03.2024 to 15.03.2024**.
- **Mr.P.Selvan** has attended a five day FDP on **“ EFFECTIVE RESEARCH PAPER WRITING STRATEGIES AND HIGH – IMPACT JOURNAL PUBLICATION TECHNIQUES ”** during 22nd–26th April 2024 organized by Department of Computer Applicatios, Kongu Engineering College,Perundurai.
- **Mr.P.Selvan** has attended Five Day Online FDP on **“Advances in Materials Technology for next Generation Manufacturing”** from 13.03.2023 to 17.03.2023 organized by the department of mechanical Engineering,Ballari Institute of Technology & Management, Ballari from 1st to 5th February 2024..

STUDENT PARTICIPATION:

- **Mr.S.Aadhi** has attended two day workshop on **“SOLID WORKS”** conducted by **KPR Institute of Engineering and Technology,Coimbatore** from **14.03.2024 to 15.03.2024**.
- **Mr.E.Logeshwaran** has completed skill training on **Manufacturing of Mechanical Components using CNC Turning / Milling** Organized by Tamilnadu Skill Development Corporation.
- **Mr.K.Karthickraja** has completed skill training on **Manufacturing of Mechanical Components using CNC Turning / Milling** Organized by Tamilnadu Skill Development Corporation.
- **Mr.S.Sabari** has completed skill training on **Manufacturing of Mechanical Components using CNC Turning / Milling** Organized by Tamilnadu Skill Development Corporation.
- **Mr.R.Arunpandi** has completed skill training on **Manufacturing of Mechanical Components using CNC Turning / Milling** Organized by Tamilnadu Skill Development Corporation.



TAMILNADU COLLEGE OF ENGINEERING, COIMBATORE-641659

DEPARTMENT OF INSTRUMENTATION AND CONTROL

ENGINEERING

ANNUAL DAY REPORT-2024

- The Department of Instrumentation and Control Engineering has been started in the year 1984

Internship Program

- Two of our ICE final year students, Aswath G. and Sanjeevi M., have completed the internship training program at Roots Industries India Pvt. Ltd. from 19/07/2023 to 19/08/2023.
- Four of our ICE final year students, M. Gugan Bharath, K. Sugasolaiarasi, K. Logeshwari, and A. S. Elango have completed the internship training program at Green Micro Electronics India Pvt. Ltd. from 20/07/2023 to 05/08/2023.

Industrial Visit

- Our second, third, and fourth-year ICE students went on a two-day industrial visit to the Sea Blue Shipyard Limited in Kochin, Kerala, and the Kerala Electrical and Allied Engineering Company Limited in Kochin.

Journal Publication

- **Dr. F. Vijay Amirtha Raj** has published a journal in the title of **Adaptive Probabilistic Neural Network Based on Hybrid PSO-ALO for Predicting Wind Speed in Different Regions**, Springer, Neural Computing and Applications, June 2023.
- **Dr. F. Vijay Amirtha Raj** has published a journal in the title of **Wind speed forecasting at wind farm locations with an unique hybrid PSO-ALO based Modified Spiking Neural Network**, Springer, Energy Systems, August 2023.

Patent

- **R. Gokila, G. Sathya, S. Kanagavalli** has filed a patent in the title of “**Automated inspection system for bearing caps**” on 01/03/2024.

- **Dr. F. Vijay Amirtha Raj and A. Manjula** has filled a patent in the title of **“Reduced Multilevel Inverterfor Improved Power Quality based on Solar Photovoltaic Systems”** on 15/09/2023.

FACULTY- CONFERENCE ATTENDED:

- R. Gokila has presented a paper in the title, **“Robotic Bomb”** at the International Conference on Emerging Trends in Future Engineering (ICETFE-24) organized by the, Dhanalakshmi Srinivasan College of Engineering, Coimbatore, on 25th April 2024.

**TAMILNADU COLLEGE OF ENGINEERING
COIMBATORE 641 659
DEPARTMENT OF SCIENCE AND HUMANITIES**

ANNUAL DAY REPORT

DEPARTMENT ACHIEVEMENTS

CHRISTMAS DAY CELEBRATION

We have organized **The Christmas Day** celebration in a grand manner on 26.12.2023 in MBA Seminar Hall. **THE MATHEMATICS DAY CELEBRATION**

We have organized **The Mathematics Day** celebration in a grand manner on 22.12.2023 in TCE Techno Park Seminar Hall I.

YOUTH DAY CELEBRATION

We have organized **The Youth Day** celebration in a grand manner on 12-01-2024 in TCE Techno Park Seminar Hall I.

WOMAN'S DAY CELEBRATION

We have organized **Woman's Day** celebration in a grand manner on 08-01-2024 in TCE Techno Park Seminar Hall I. the day is celebrated as Woman Talentina.

SCIENCE DAY CELEBRATION

We have organized **SCIENCE EXPO 2K24** for our First year students on **29.04.2024**.

FACULTY ACHIEVEMENTS

Dr.N.Sivamani research paper published in the INTERNATIONAL CONFERENCE ICRTAM – 2023 entitled “Q power quasi n-Binomial Operator “ page no 174.

Dr.N.Sivamani research paper published the article entitled IMPORTANCE OF MATHEMATICS ON OUR DAILY LIFE.

Dr.N.Sivamani research paper published in the Journal of Nonlinear Analysis and Optimization entitled in Q-POWER QUASI n – BINORMAL OPERATORS IN HILBERT SPACE .(UGC CARE approval)

Dr.N.Sivamani completed NPTEL course in the title “GRAPH THEORY” from the period Jan 2024 to March 2024.

Dr.C.Ruby Sharmila written and published an Engineering mathematics book Titled “ Transforms and partial Differential Equations”.

Dr.C. Ruby Sharmila published three papers in scopus indexed journals.

Dr.C. Ruby Sharmila presented two papers in International Conference and workshops.

Dr. G.Kalpana published Systematic investigation on the potential ray attenuation properties of Mg doped SnO₂-epoxy nanocomposite- based aprons as an alternate for lead commercial aprons *Journal of Materials Research (Journal of Materials Research (January 2024): 1-13.*(Manuscript accepted and paper on printing).

Dr. G.Kalpana published A systematic evaluation of the catalytic behavior of transition metal (Fe and Mn)-doped ceria-zirconia-alumina oxides on automobile exhaust. *Ionics*, 1-15. JANUARY 2024.

Dr. G.Kalpana published Lead-Free X-Ray Shielding aprons using Zn-Doped SnO₂ Epoxy Nanocomposite: A Promising Alternative to Traditional Heavy and Lead-Based Materials

Dr. G.Kalpana published Investigation on Physico Chemical and X-ray Shielding Performance of Zinc Doped Nano-WO₃ Epoxy Composite for Light Weight Lead Free Aprons. *Materials*, 16(10), 3866.

Dr. G.Kalpana published Lead-free X-Ray shielding aprons using MoO₃ nanoparticles and epoxy polymer composite: A promising alternative to lead based Aprons. ISBN-978-93-91347-54-3 International conference on applied physics and electronics for future technology ICAFT 2023 **11 TH MARCH 2023.**

GUEST LECTURE DELIVERED:

S. No.	Name of the Faculty	Name of the Programme	Title of the Programme	Name of the Institutions	Date of Programme
1.	Dr.N.SIVAMANI	First year Induction Program	Guest Lecture delivered “Application of Discrete Mathematics”	Info Institute of Engineering and Technology	20.10.2023

Tamilnadu College of Engineering, Coimbatore

Department of Management Studies

Activities for the Academic Year 2022-23

1 Fresher's Day

- Fresher's day was organized by the Department on 26.10.2022 and a two day induction program was also conducted in the department to the fresher's.

2 Association Inauguration and Alumni meet.

- 09.11.2022, Department Association (Royal Managers Association) was inaugurated, and an alumni interaction session also organized on the same day.

3 Out side campus participations of our students

- 5 students from MBA have participated ASTHRA-2K23 Intercollegiate meet on 31.03.2023 at G.R.Damodaran Academy of Management, Coimbatore.
- 7 Students from our department have participated in the intercollegiate management meet z-Finity organized by Department of Management studies, KGISL institute of Technology on 06.04.2023.

4. New Appointments

This year three new faculty members Mr, R. Balaganapathy, Mr. S.Vijayakumar, Mrs.S.Bhuvaneshwari appointed in our department as Assistant Professor.

5. Placement awareness programme

- A placement awareness programme was organized by the department to the students on 09.01.2023, Mr.Nandhakumar, Assistant Manager, City Union Bank, Chennai, a renowned alumni of MBA department has participated and interacted with our students.