

## ABOUT THE INSTITUTION

Sri Krishna College of Engineering and Technology, approved by AICTE and affiliated to Anna University, was established in the year 1998 for providing quality technical education to the young minds of the state. In all, the College offers 11 UG, 7 PG and 4 Doctoral programmes in Engineering. It has full-fledged infrastructure furnished in all aspects with a world-class central library as a highlight. The college has been granted Autonomous status and the National Institutional Ranking Framework (NIRF) has ranked our institution 77th among all engineering colleges in the country.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 1998. The Department offers 4 year B.E Degree course in the Mechanical Engineering and 2 year Master Degree programme in Engineering Design. Due to infrastructure Facilities and Faculty the department has secured Anna University Permanent Affiliation in the year 2005-2006. Dedicated and Experienced faculty with Ph.D degrees, drawn from industries and reputed academic institutions form the backbone of the department. The department has 19 laboratories created with futuristic vision. The state of the art R&D lab, SAE fabrication lab, CAD/CAM Lab, Fluid Mechanics Lab, Dynamics Lab, Thermal Lab are examples. The Department is also a recognized research centre for offering PhD programmes under Anna University. The department faculty members have received grants to a tune of Rs.4.5Cr from various funding agencies like DST and AICTE. The students of the mechanical engineering are well moulded for the industrial environment by making industrial visits mandatory and by encouraging them to undergo industrial training and do industry projects. The department of mechanical engineering has several professional clubs and association like SAE, IIF, IIC, ISTE, KPIT club and they actively function for the benefit of students in different fields.

## ABOUT THE SAE INDIA SKCET COLLEGIATE CLUB

SAEINDIA is India's leading resource for mobility technology. SAE INDIA Collegiate club was established in the year 2002. SKCET members have actively participated in all the SAE activities regularly and won laurels to our Institution. SAE INDIA SKCET Collegiate Club is the leading professional club in south India for organizing various events like, seminar, workshop, conference etc., and our students also regularly participate in SAE INDIA BAJA, SUPRA, SAEISS E-Bike, Electric car design challenge and Drone.

## CONFERENCE THEME

Eighth International Conference on “TRENDS IN AUTOMOTIVE PARTS, SYSTEMS AND APPLICATIONS” (TAPSA-2024), promoted by the Department of Mechanical Engineering of Sri Krishna College of Engineering and Technology, aims to provide a platform for research scholars, engineers, academicians and industrial professionals from various parts of the country to present their research, experimental results, case study of new methodologies and development activities in automotive field. The conference also provides a platform to discuss the latest developments and advances in the field of engineering and technology. This conference will provide all the participants an opportunity to discuss their innovative findings among the academicians, engineers and researchers.

# SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE



## Eighth International Conference on TRENDS IN AUTOMOTIVE PARTS SYSTEMS AND APPLICATIONS

TAPSA 2024

12<sup>th</sup>-13<sup>th</sup> December 2024

*Hybrid Mode (online / offline)*

Conference Participation  
and Publication

Publication Partner

**FREE** for SAE members



Scopus Indexed: SAE Technical Paper



*Organized by*

SAE INDIA SKCET Collegiate Club  
Department of Mechanical Engineering  
Sri Krishna College of Engineering and Technology  
(An Autonomous Institution)  
Kuniamuthur, Coimbatore- 641 008, Tamilnadu, India.  
www.skcet.ac.in

## CONFERENCE TOPICS

Conference papers are invited for the following streams of Engineering and Technology and related to the topics listed below.

### 1. MATERIALS AND MANUFACTURING

- Composite Materials
- Nano and Smart materials
- Casting and Metal Joining
- Powder Metallurgy
- Advanced Machining
- Surface Engineering and Coatings
- Green and Sustainable Manufacturing

### 2. INDUSTRIAL ENGINEERING

- Lean and Agile Manufacturing
- Optimization Techniques
- Supply Chain Management
- Concurrent / Reverse Engineering
- Industrial Safety

### 3. CAD / CAM / CAE

- 3D Printing Technology
- Modeling , Analysis and Simulation
- Design of Mechanical Systems
- Application of AI/ML Technique

**And all other related topics in the automotive application domain are also accepted**

### EMINENT ADVISORY COMMITTEE

- V. Rajkumar, Scientist 'F', Defence Research and Development Laboratory, Hyderabad.
- Dr.T.Ram Prabhu, CEMILAC, Defence R&D Organization, Bengaluru.
- Mr.Mothilal Sivasubramaniam, Director Operations Spero Electric.

### ACADEMIC REVIEW COMMITTEE

- Dr.Gabriella Marginean, Westphalian University of Applied Sciences, Germany.
- Xiao-Zhi Gao, University of Eastern Finland.
- Dr.S.Sivasankaran, Qassim University, Kingdom of Saudi Arabia.
- Dr.G.Kannan, University of Southern Denmark.
- Dr.N.Jeyaprakash, China University of Mining and Technology, China.

### 4. THERMAL ENGINEERING

- Computational Fluid Dynamics
- Refrigeration and Air Conditioning
- Energy Management
- Renewable Energy

### 5. ROBOTICS & MECHATRONICS

- Industrial Automation
- Vehicle Interface and Tracking
- Electrical and Electronics System
- Mechatronics System

### 6.AUTOMOTIVE

- Active and Passive Safety
- Advanced Automotive Technology
- Vehicle Dynamics
- Alternate Fuels
- Emission Control Technology
- Vehicle Electrification
- Smart Vehicle Technology
- Charging Infrastructure for EV's
- High-speed mobility / transportation



- Dr.C.Vivekanandhan, Botswana International University of Science and Technology.
- Dr.L.A.Kumara Swamidhas, IIT, Dhanbad.
- Dr.K.Senthilkumaran, IIITDM Kancheepuram.
- Dr.P.Sathiya, NIT Trichy.
- Dr.T.J.Sarvoththama Jothi, NIT, Calicut.
- Dr.Ajith Ramesh, Amritha University.
- Dr.S.Denis Ashok, VIT, Vellore.
- Dr.M.Kamaraj, SRM University.
- Dr.R.Kannan, PSNA Institution, Dindigul.

## ORGANIZING COMMITTEE

### Chief Patrons

Smt.S.Malarvizhi, Chairperson & Managing Trustee, Sri Krishna Institutions,  
Sri.K.Adithya, Trustee, Sri Krishna Institutions,  
Dr.K.Sundaraman, Chief Executive Officer, Sri Krishna Institutions.

### Patrons

Dr.S.Sophia, Principal,  
Dr.J.P.Ananth, Dean Academics & COE,  
Dr.V.Ragavi, Dean Student Affairs.

### Co-Patrons

Dr. P. Ashoka Varthanan, Professor and Head/Mechanical Engineering.

### Convenors and Guest Editors

Dr.R.Soundararajan, Dr.A.Sathishkumar, Mr.N.Babu, Dr.K.Balasubramanian and Dr.N.Balaji.

### Coordinators

Dr.R.Ramamoorthi, Dr.R.Jeyakumar, Dr.S Karthik, Dr.V.P.Srinivasan and Dr. S. Balamurugan.

### Program committee

Dr.C.Rajendran, Dr.C.Samson Jerold Samuel, Dr.S.Raja, Dr.M.Vigneshkumar,  
Dr.R.Arun Bharathi, Dr.A.Rajesh, Dr.Ben Ruben, and Dr.K.P.Yuvaraj

### PAPER SUBMISSION

UG and PG students, research scholars, faculty members, and industrial professionals are warmly invited to submit their manuscripts in the suggested areas, following the SAE format.

**Manuscript format link:** <https://tinyurl.com/43k9b6mn>

**Manuscript submission link:** <https://tinyurl.com/5n8ae4zu>

**How to submit your manuscript:** <https://tinyurl.com/ykhdmbyn>

**Procure SAEINDIA membership:** <https://saeindia.org/eligibility-fees-2/>

For further queries please contact us through [tapsa2023@gmail.com](mailto:tapsa2023@gmail.com)

### CONFERENCE REGISTRATION FEE

**Registration is free for SAE members; all authors must be SAE members**

**Registration fees of ₹1500/- (\$18 USD) apply to non-SAE members**

The registration fees should be paid by Demand Draft in favour of, The Principal, Sri Krishna College of Engineering and Technology, payable at Coimbatore.

The registration fee covers certificate, conference proceedings, course kit, refreshment, and lunch on the days of the conference. One of the author have to register for presenting the accepted paper.

### IMPORTANT DATES

Submission of full paper : **30 July 2024** Notification of acceptance : 30 September 2024

Last date for registration : 30 October 2024 Paper Publication (scopus) : 12 December 2024

Selected papers will be published (without processing fees) in the special issue of reputed **Scopus** indexed online publication - **SAE Technical Paper** which has an **Impact Factor: 0.64 (ISSN: 2688-3627, 0148-7191)**. The organizing team will also facilitate SCI / Web of science journal publication and charges have to be borne by the authors directly.

**Online Published Papers for TAPSA 2023 (Scopus Indexed) :** <https://tinyurl.com/SAE-MOBILUS>

### ADDRESS FOR CORRESPONDENCE

The Convenor TAPSA – 2024

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