

VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI – 09.
(Autonomous)

Department of Mechanical Engineering

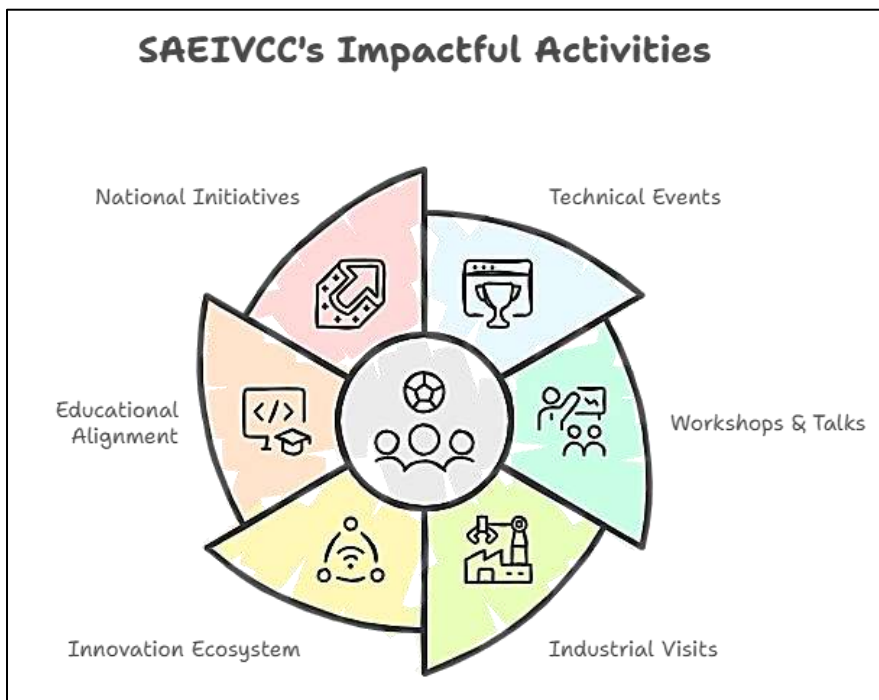


SAEINDIA Velammal Collegiate Club (SAEIVCC)

The **SAEINDIA Velammal Collegiate Club (SAEIVCC)** is a professional student chapter established under the **Society of Automotive Engineers India (SAEINDIA)**. It serves as a dynamic platform for students to explore advancements in mobility engineering, design, and manufacturing through active engagement in technical events, competitions, and collaborative learning. The club aims to bridge the gap between academia and industry by nurturing engineering excellence, innovation, and professional competency in automotive and allied domains.

Through participation in SAE events such as **BAJA, SUPRA, EffiCycle, Aero Design Challenge, Bicycle Design Challenge, and Tractor Design Challenge**, students gain practical exposure to real-world engineering problems, project management, teamwork, and product development. The club regularly conducts workshops, expert talks, design challenges, and industrial visits to enhance technical knowledge and leadership skills.

The activities of SAEIVCC play a significant role in strengthening the institution's innovation ecosystem by encouraging multidisciplinary collaboration, supporting the outcome-based education framework (OBE), and aligning with national initiatives like **“Make in India”** and **“Skill India.”**



Objectives of SAEIVCC

- To promote student interest in mobility, design, and manufacturing technologies.
- To bridge the gap between academic learning and industrial practices.
- To provide hands-on experience through participation in SAE events and design competitions.
- To foster innovation, teamwork, and leadership among students.
- To create industry-ready engineers capable of addressing real-world challenges.

Name of the In-Charge with Designation:

Faculty Advisor - **Dr. M. Vivek Prabhu**, Assistant Professor / Mechanical Engineering

Events organized under SAEIVCC during the academic year 2023-24

S. No.	Name of the Event	Resource Person/Chief Guest	No. of Participants	Date
1.	Guest Lecture	Mr. S.S. Nallaperumal (Deputy Manager, Electrified Powertrain Control Systems development, Stellantis Engineering India, Chennai)	45	19.08.2023
2.	Bi Cycle Design Challenge – 5th Edition BDC 24	Held at Knowledge Institute of Technology, Salem	12	25.02.2024



Mr.Nallaperumal SS. Delivered a guest lecture on Electric Vehicles Charging Technology.

Events organized under SAEIVCC during the academic year 2024-25

S. No.	Name of the Event	Resource Person/Chief Guest	No. of Participants	Date
1.	Guest Lecture	Mr. M. Eswaran Assistant General Manager Fenner, Madurai	55	21.09.2024
2.	Student Convention – National Level	Loyola ICAM College of Engineering and Technology, Chennai	12	21.09.024
3.	Student Convention – National Level	Kongu Engineering College - Perundurai	14	25.10.2024
4.	Guest Lecture	Mr. Meenakshi Sundar Kannan , CFD analyst of Lennox India Technology Center	55	18.10.2024
5.	Bi Cycle Design Challenge – 6th Edition BDC 24	Held at Knowledge Institute of Technology, Salem	8	26.10.2024



Student Convention – National Level on 21.09.2023

Events organized under SAEIVCC during the academic year 2025-26

S. No.	Name of the Event	Resource Person/Chief Guest	No. of Participants	Date
1.	Technical Talk	Mr. E. Kavieyarasu Assistant Manager, TAFE, Madurai	75	28.07.2025
2.	Guest Lecture	Mr. Ganesh Balanchandran Senior Powertrain Development Engineer, BRP Inc., Linz, Austria.	53	01.08.2025
3.	Technical Talk	Mr. G. D. Balakumar Chasis Engineer, Stellantis, Chennai.	55	01.08.2025
3.	SAE India Southern Section – Tier 1 Competition	-	80	20.09.2025 & 27.09.2025
4.	Leadership Training Programme – Colt 2025-26	Mr. S. Shanmugam, Chair Member, SAEINDIA	55	31.10.2025 & 01.11.2025

TECHNICAL TALK ON

STRATEGIC SOURCING

by Mr. Kavieyarasu, Assistant Manager at TAFE, on 28th July 2025.

On 28th July 2025, the **SAEIndia Velammal Collegiate Club** organized an insightful Technical Talk on “**Strategic Sourcing**”. The session was delivered by **Mr. Kavieyarasu**, Assistant Manager at TAFE, who shared his expertise and professional experience with the students.

The talk focused on the importance of strategic sourcing in modern industries, highlighting how systematic supplier selection, cost optimization, and long-term vendor relationships play a crucial role in improving efficiency and competitiveness. Mr. Kavieyarasu also explained how sourcing decisions directly influence production quality, supply chain resilience, and overall business performance.

The session provided students with a clear understanding of procurement strategies, industry best practices, and the role of mechanical engineers in ensuring sustainable sourcing. Interactive discussions made the talk engaging, allowing students to clarify their doubts and relate theoretical knowledge with real-world industrial applications.

This technical talk not only enhanced students' awareness of supply chain management but also emphasized the need for engineers to develop managerial and decision-making skills in addition to technical expertise. It was an enriching experience that broadened the horizons of the participants, preparing them to face future industrial challenges with a holistic approach.

A promotional poster for the technical talk. It features the Velammal College of Engineering and Technology logo, the Department of Mechanical Engineering, and a portrait of the speaker, Mr. Kavieyarasu E, Assistant Manager at TAFE. The date 28.07.2025 is prominently displayed. The venue is S03, Smart Classroom, Mechanical Department, VCET. The time is 11am to 12.30pm. Logos for SAE India and the organizing club are also present.

Velammal
College of Engineering and Technology
Department of
Mechanical Engineering
Technical
Talk on
**STRATEGIC
SOURCING**

SPEAKER
Mr. Kavieyarasu E
Assistant Manager, TAFE

28.07.2025

Venue: S03, Smart Classroom,
Mechanical Department,
VCET

Time: 11am to 12.30pm

Organized by SAEIndia Velammal Collegiate Club



*Technical Talk by Mr. E. Kavieyarasu, Assistant Manager, TAFE, Madurai on
28.07.2025*

The Department of Mechanical Engineering, Velammal College of Engineering and Technology (Autonomous), organized an enlightening seminar on "Automotive / Powertrain Development: Needs of Today and Tomorrow" on 1st August 2025 at Prof. C. K. Prahalad Hall, Dr. Sivaji Ganesan Block. The session was graced by Mr. Ganesh Balachandran, a distinguished alumnus of the 2008-2012 batch, who currently serves as Head - Model Based Engineering and Senior Powertrain Development Engineer at BRP Inc., Linz, Austria.

The seminar commenced with a warm welcome to the guest speaker, honoring his achievements and his continued connection with his alma mater. Mr. Ganesh delivered an engaging talk that captured the attention of both students and faculty as he explored the current trends, challenges, and future opportunities in the field of automotive and powertrain development. He emphasized how the global automotive industry is undergoing a major transformation, driven by advancements in technology, sustainability goals, and changing consumer demands.



**VELAMMAL COLLEGE OF ENGINEERING
AND TECHNOLOGY
(AUTONOMOUS)**

DEPARTMENT OF MECHANICAL ENGINEERING

Seminar on

**AUTOMOTIVE/POWERTRAIN DEVELOPMENT:
NEEDS OF TODAY AND TOMORROW**



Guest speaker:
Mr. Ganesh Balachandran
Our Proud Alumnus (Class of 2008-2012)
Head - Model Based Engineering,
Senior Powertrain Development Engineer
BRP Inc., Linz, Austria.



Date:
August 01,
2025 Friday

Time:
11 am to 12:30 pm

Venue:
PROF. C. K. PRAHALAD HALL,
Dr. Sivaji Ganesan Block.

Mr. Ganesh's thoughtful responses and real-world perspectives provided clarity and motivation, leaving a lasting impact on the audience. The Department of Mechanical Engineering extended its heartfelt appreciation to Mr. Ganesh Balachandran for his time, effort, and inspiring address. The event not only enriched the technical understanding of students but also strengthened the bond between the department and its alumni network. This seminar served as a valuable reminder that engineering excellence stems from curiosity, innovation, and the determination to adapt to an ever-evolving technological world.



Automotive/Powertrain Development: Needs of Today and Tomorrow

by **Mr. Ganesh Balachandran**,
Senior Powertrain Development Engineer
at BRP Inc., Linz, Austria,
on 01st August 2025.



Guest Lecture by Mr. Ganesh Balachandran, Senior Powertrain Development Engineer, BRP Inc., Linz, Austria on 01.08.2025

Understanding Tire Mechanics and Vehicle Dynamics

Guest Lecture by
Mr. Balakumar G. D.
Product Development
– Chassis Engineering
at Stellantis, Chennai.



“Mastering Vehicle Balance”

The Department of Mechanical Engineering organized a Guest Lecture on **“Understanding Tire Mechanics and Vehicle Dynamics”** on 28th August 2025 at the II Floor Smart Classroom, Dr. Sivaji Ganesan Block. The session was delivered by **Mr. Balakumar G. D.**, a proud **alumnus** of the 2008–2012 batch, currently serving in Product Development – **Chassis Engineering at Stellantis, Chennai.**

Mr. Balakumar shared valuable insights into the intricate relationship between tire mechanics and vehicle performance. He explained how factors such as tire design, material composition, and pressure influence vehicle stability, control, and overall dynamics. The lecture also shed light on the role of chassis engineering in enhancing ride comfort, traction, and safety in modern vehicles.

Students actively participated in the interactive session, gaining a deeper understanding of how theoretical concepts are applied in real-world automotive development. The session proved to be both educational and inspiring, bridging the gap between classroom learning and industrial practice.

*Technical Talk by Mr. G. D. Balakumar, Chasis Engineer, Stellantis, Chennai on
28.08.2025*



VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING
SAEINDIA VELAMMAL COLLEGIATE CLUB

PROUDLY PRESENTS

SAEINDIA STUDENT CONVENTION-TIER I

ON 20TH & 27TH SEPTEMBER 2025
FROM 9:30 AM TO 3:00 PM

SAEINDIA SOUTHERN SECTION

LIST OF EVENTS

DAY 1 - 20.09.2025	DAY 2 - 27.09.2025
1. Computer Aided Manufacturing	8. Python Programming
2. Welding	9. Mobile Robotics
3. Sheet Metal	10. Internet Of Things
4. Auto Quiz	11. Geometric Dimensioning & Tolerancing
5. Paper Presentation	12. Mobile App Development
6. Business Plan Presentation	13. Bio Mimicry
7. Bridge Building	

SCAN TO REGISTER

CONTACT
Mr. ANNAMALAI G 9842125475
Mr. JEYASURYA S 7639223860

FACULTY ADVISORS
Dr. M. VIVEK PRABHU
Dr. G. MANIKANDAN
Dr. P. ALLI
Dr. N. RAJKUMAR

SAEIVCC

"Driven by unity and powered by passion: Our young engineers continue to move innovation forward"

The Department of Mechanical Engineering, in association with the SAEINDIA Velammal Collegiate Club, proudly organized the SAEINDIA Student Convention - Tier I on the 20th and 27th of September 2025 at VCEI. Aligned with the SAEINDIA Southern Section, the convention reflected the department's mission of nurturing technically competent and industry-ready engineers. With energetic participation from students across all years, the event became a grand celebration of engineering innovation, teamwork, and collaboration.

The Day 1 events began with enthusiasm and healthy competition as students took part in technical events such as Computer-Aided Manufacturing, Welding, Sheet Metal, and Auto Quiz. These competitions tested not only their technical knowledge but also their precision and practical skills. The Paper Presentation and Business Plan events encouraged innovative thinking and entrepreneurial insight, while Bridge Building brought out the creativity and structural understanding of participants. The day was filled with energy and inspiration, setting a dynamic tone for the entire convention.

Day 2 carried forward the same spirit of innovation with events like Python Programming, Mobile Robotics, Internet of Things (IoT), Geometric Dimensioning and Tolerancing, Mobile App Development, and Bio Mimicry. These sessions bridged the gap between core mechanical principles and emerging digital technologies, highlighting the importance of interdisciplinary learning. Students showcased outstanding problem-solving skills, quick thinking, and teamwork throughout the competitions, reflecting the evolving mindset of modern engineers.

Unity in Action: The Strength Behind the Success

The coordination between faculty advisors, event heads, volunteers, and student organizers reflected an extraordinary level of teamwork and commitment. Each member played their part with dedication — whether it was managing logistics, guiding participants, handling registrations, or ensuring seamless technical arrangements. This shared sense of purpose and mutual support showcased the spirit of the Mechanical Engineering Department — where collaboration fuels achievement.

The student executives of SAEIVCC displayed exemplary leadership and organization, motivating their peers and ensuring that every event upheld the standards of SAEINDIA. Their passion and discipline transformed the convention into not just a technical gathering but a demonstration of unity, teamwork, and professional excellence.

SAE India Southern Section – Tier 1 Competition held on 20th and 27th September 2025



**SAEISS COLLEGIATE CLUB OFFICERS
LEADERSHIP TRAINING PROGRAMME**

SAEISS COLT 2025-26

Organized by
SAEISS MADURAI DIVISION

PANEL SPEAKERS

Mr. S. SHANMUGAM
Chair - Member Care and Membership Board, SAEINDIA, and Director - Design Desk India Pvt. Ltd.

Dr. E. RAJASEKAR
Former Secretary, SAEINDIA Southern Section, and Former Professor, MIT Engineering College.

Hosted by
SAEIVCC
SAEISS Vellammal Collegiate Club

ABOUT THE PROGRAMME
A leadership development initiative by SAEINDIA Southern Section to recognise and train outstanding SAE student leaders for future roles in SAE and their professional careers.

PURPOSE
To develop leadership, teamwork, and management skills among SAE collegiate members who have shown strong involvement in SAE activities.

ELIGIBILITY & SELECTION

- Each college can nominate four active SAE student leaders (preferably 2nd or 3rd year).
- Nominees must hold a club office bearer post and have proven leadership in SAE activities.
- Selected students receive an expense grant opportunity to attend the Leadership Training Seminar.

DATE
31st OCTOBER 2025 &
01st NOVEMBER 2025

VENUE
VELAMMAL COLLEGE OF
ENGINEERING AND TECHNOLOGY
(AUTONOMOUS), MADURAI

TIME
9:00 am to
4:00 pm



Club Officers Leadership Training (COLT) Programme held on 31.10.2025 & 01.11.2025