



ANNUAL REPORT FY(2024-2025)

FACULTY ADVISOR: Dr.Dipin Kumar R, Sreejith N K

SLNO:	DATE	NATURE OF PROGRAM	TARGET GROUP	NO.OF PARTICIPANTS
1	24/04/2024	Farewell And New Panel Introduction	Panel members	25
2	27/04/2024	RacerX,mbaja Team	Team Members	30
3	05/06/2024	Environment Day Celebrations	students	20
4	05/08/2024	GearUP,Automotive quiz	students	9
5	02/09/2024	CAD competition	students	15
6	02/09/2024	Welding competition	students	15
7	02/09/2024	Sheet metal Competition	students	9
8	11/09/2024	CAD Hackathon	students	6
9	12/09/2024	Student Induction program	students	100
10	03/10/2024	ADDC	participants	10
11	14/10/2024	Mobility Quiz Competition	students	3
12	14/10/2024	Business Plan Presentation Competition	students	7
13	26/10/2024	SAEINDIA Student Convention- (Presentation skills)	College level tier event winners	6
14	28/12/2024	Online Webinar	students	50
15	17/02/2025	Geometric Dimensioning and Tolerance competition	students	15
16	17/02/2025	Bio Mimicry Competition	students	12

17	17/02/2025	Bridge Building Competition	students	35
18	22/02/2025	SAEINDIA Student convention- (Design)	College level tier event winners	9
19	15/03/2025	BDC 2025	Team members	7
20	16/03/2025	SAE INDIA Aerothon 2025	Team members	10
21	04/04/2025	Baja Buggy Unveiling	college	70
22	07/04/2025	Baja and SAE panel Farewell	Panel members	30
23	24/04/2025	Annual General Body Meeting	SAE panel Members	22

Event: Farewell and New Panel Introduction

Date: 24/04/2024

Venue: E-one Hall

The event was organized to bid farewell to the outgoing panel and introduce the new panel. The outgoing members shared their experiences, reflecting on their time in the panel. Dr. P.R. Suresh, Principal, NSSCE, and Dr. Vinod V, Faculty Advisor, SAE NSSCE, addressed the students during the event. Certificates were also presented to the outgoing panel members in recognition of their contributions.

No of Students Participated: 25

Student Coordinators:

1. Abhirami P K
2. Adraja V
3. Abhinav



Event: RacerX, mBaja Team

Date: 27/04/2024 (Event Registration Completed)

RacerX is the enthusiastic and innovative mBaja team from NSSCE, consisting of 30 highly motivated mechanical engineering students dedicated to excelling in the challenging field of off-road vehicle design and racing.

No of Students: 30

Student Coordinators

1. Abhinav
2. Pravda Padmakumar
3. Abhilash C

MEET THE TEAM

DR. VINOD V
FACULTY ADVISOR

ABHINAV
CAPTAIN

VAIBHAV V RAHALINGAM
VICE CAPTAIN

PRAVDA PADMAKUMAR
TEAM MANAGER

ASHWAATH H
DRIVER

ANAND K S
CO-DRIVER

TEAM LEADS

S DEV BHASKAR
POWERTRAIN LEAD

GAYATHRIDAS P S
STEERING LEAD

PRANAV R
DRIVING LEAD

HARIKRISHNAN V
CHIEF LEAD

ABHIOOTH R
IPO LEAD

POWERTRAIN

ANUSKARA KANAKELLAM

ASWINDEV V H

ATHUL KRISHNA

AJMAL MUHAMMED A

ROLL CAGE

ABHILASH C

OORUL A S

K.R.VISHNU NARAYANAN

SUSPENSION

ASHWATH C

ABY THOMAS HATHEN

ADIEL R

ABHIRAM K

STEERING

ABHIRAM P K

ADINATH MENON

ABHIRAM P

ABHIOOTH D

HARGOVIND

BRAKING

ADARSH V

SATYAKRISHNAN NARAYANAN

JETIN ASIF

AJMAL MUHAMMED

FROM GHATS TO GLORY

RACER X

AIR 20

HIGHEST SCORING TEAM FROM KERALA

FIRST IN VIRTUAL PRESENTATION

DEPARTMENT OF MECHANICAL ENGINEERING
NSS COLLEGE OF ENGINEERING, PALAKKAD

Event: Environment Day Celebrations

Date: 05/06/2024

Venue: Rainwater Harvesting Pond

As part of the Environment Day celebrations, a tree-planting event was held. Sri. Joseph K D, Project Head, Jal Jeevan Mission, and Dr. Rajeev N, Principal, NSSCE, planted trees and addressed the students regarding the importance of the day. Dr. Vinod, Professor and Head of the Department of Mechanical Engineering, and Faculty Advisor, SAE NSSCE, also addressed the gathering.

No of Students Participated: 20

Student Coordinators:

1. Abhijith R
2. Pravda Padmakumar



Event: GearUp, Automotive Quiz

Date: 05/08/2025

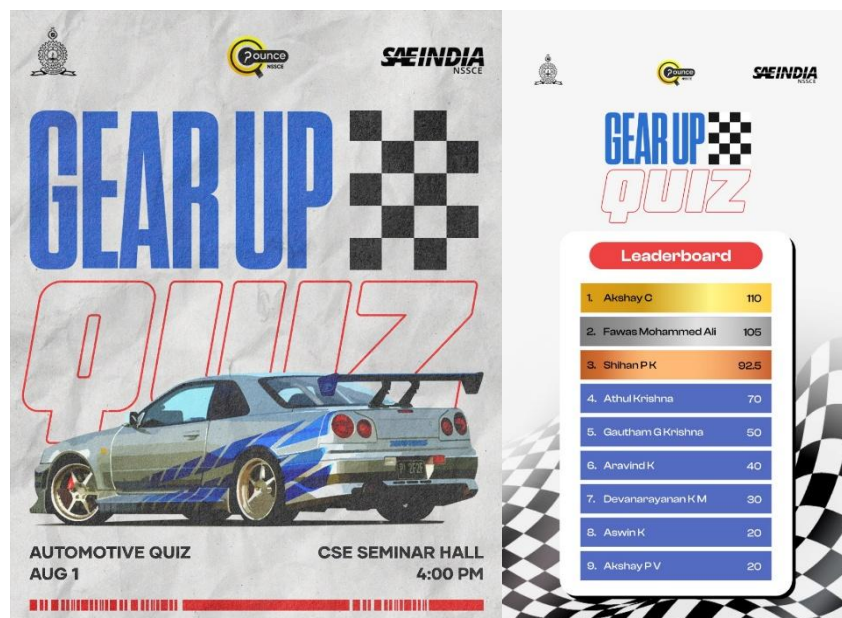
Venue: Digital Lecture Hall

SAE NSSCE, in collaboration with Qpounce NSSCE, organized an automotive quiz featuring questions from various automotive fields. Students participated enthusiastically, showcasing their knowledge and interest in the subject.

No of Students: 9

Student Coordinators:

1. Pravda Padmakumar
2. Abhijith R
3. Adraja V



Event: Computer Aided Manufacturing Competition

Date: 02/09/2024

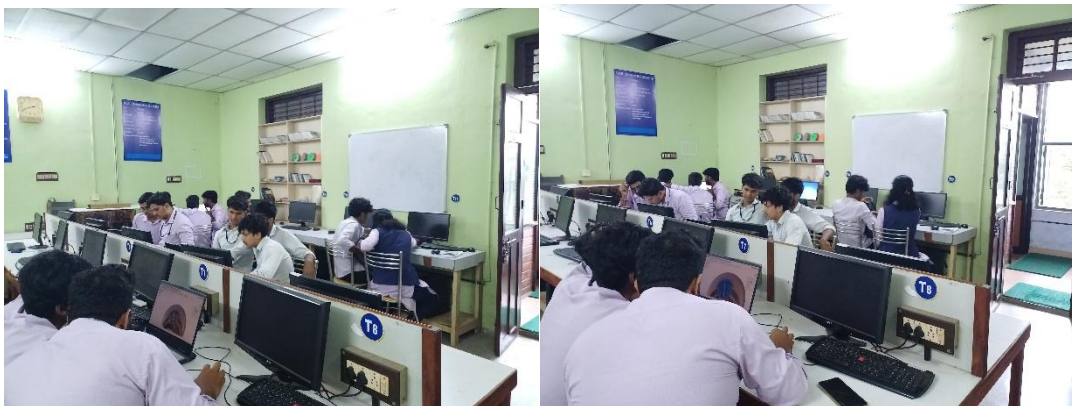
Venue: Mechanical Engineering CAD Lab

As part of the SAEISS Student Convention 2024 Tier 1, a Computer-Aided Manufacturing (CAM) competition was conducted. Teams were tasked with creating a drawing of an automotive part using suitable CAD software. All teams successfully completed the assigned task.

No of Students: 15 (5 teams)

Student Coordinators

1. Pravda Padmakumar
2. Anupam Nair
3. Niranjana M



SAEINDIA
INDIA SOCIETY OF AUTOMOTIVE ENGINEERS

Computer Aided Manufacturing Competition

2nd Sep, 1 PM CAD Lab

Guidelines

- Participants have to draw a given automotive part using a relevant software.
- Software Accepted: Autodesk Fusion 360, Siemens NX, Mastercam, Creo, CATIA, Solidworks.
- Register as a team of 3 members.

TIER 1 EVENTS

EVENT GUIDELINES

Event: Welding Competition

Date: 02/09/2024

Venue: Mechanical Engineering Workshop

As part of the SAEISS Student Convention 2024 Tier 1, a welding competition was held. Teams were tasked with creating lap, butt, and V joints using the provided workpieces. All teams successfully completed the assigned tasks.

No of Students: 15 (5 teams)

Student Coordinators:

1. Adraja V
2. Abhilash C



SAEINDIA
NSSCE

Welding Competition

2nd Sep, 1 PM Mechanical Workshop

Guidelines

- Each team should weld a lap, butt, corner & T joint using the given rectangular plate.
- Register as a team of 3 members.
- Last date to register: **1st September 2024**

 **EVENT GUIDELINES**

Event: Sheet Metal Competition

Date: 02/09/2024

Venue: Mechanical Engineering Workshop

As part of the SAEISS Student Convention 2024 Tier 1, a sheet metal competition was held. Teams were tasked with creating a 3D model from a given 2D drawing using the provided metal sheets. All teams successfully completed the tasks.

No of Students: 3

Student Coordinators:

1. Sathyajith Narayanan





Sheet Metal Competition

2nd Sep, 1 PM

Mechanical Workshop

Guidelines

- Fabrication of a given 2D model into a prototype model.
- Register as a team of 3 members.
- Last date of registration: 1st September 2024



EVENT GUIDELINES

Event: CAD Hackathon

Date: 11/09/2024

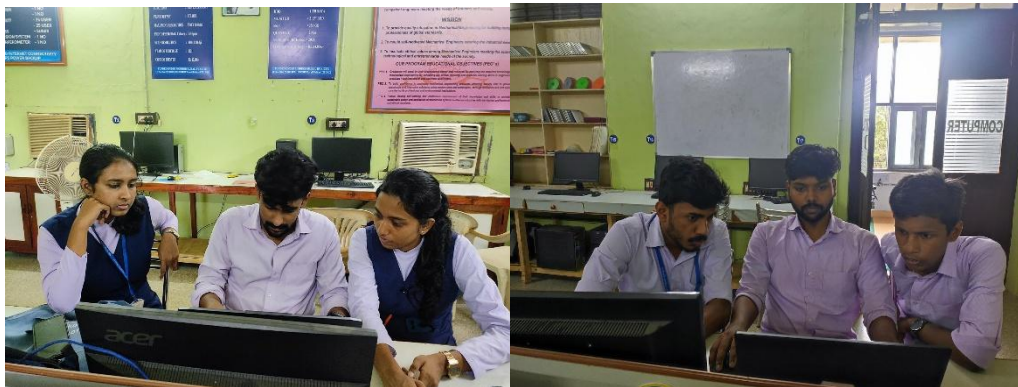
Venue: Mechanical Engineering CAD Lab

A college-level CAD Hackathon was held as part of SIH 2024. Teams were tasked with creating a drawing of an industrial component using Fusion 360 software. All teams successfully completed the task.

No of Students: 6

Student Coordinators:

1. Pravda Padmakumar
2. Adraja V



Event: Student Induction Program

Date: 12/09/2024

Venue: Mechanical Drawing Hall

SAE NSSCE conducted an induction program for the newly joined first-year mechanical engineering students of the 2024-28 batch. The program provided an overview of SAE as an organization, introducing SAE International, SAEINDIA, and SAEISS. It also covered the various activities and competitions conducted by SAE at different levels. Additionally, the program highlighted the activities and events organized by SAE NSSCE and provided information about SAE membership and its benefits.

No of Students: 100

Student Coordinators:

1. Sathyajith Narayanan
2. Abhirami P K
3. Abhilash C



Event: Team Dronacharya: ADDC

Date: 03/10/2024 (event registration completed)

Dronacharya, the enthusiastic and innovative team from SAE NSSCE, is focused on excelling in the Autonomous Drone Development Challenge. Comprising students with a strong passion for technology and innovation, the team is dedicated to developing cutting-edge autonomous drone solutions and showcasing their skills in this challenging field.

No of Students: 10

Student Coordinators:

1. Anupam Nair
2. Anirudhan K A
3. Kabeerdas P



Event: Mobility Quiz Competition

Date: 14/10/2024

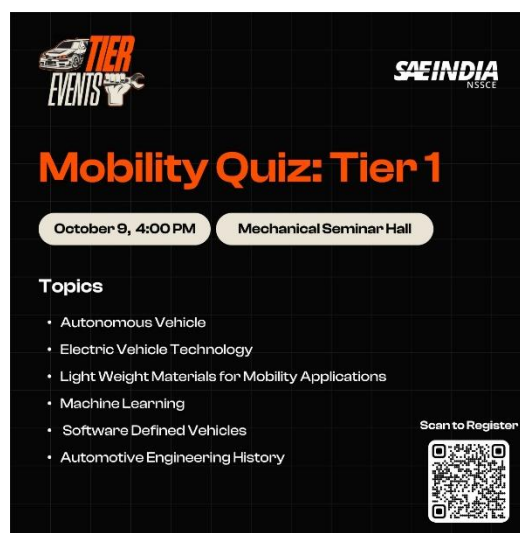
Venue: MB312

As part of the SAEISS Student Convention 2024 Tier 1, a mobility quiz competition was held. The quiz included questions from different automotive areas including autonomous vehicle, EV Technology, etc.

No of Students: 3

Student Coordinators:

1. Sathyajith Narayanan
2. Adraja V
3. Abhirami P K



Event: Business Plan Presentation Competition

Date: 14/10/2024

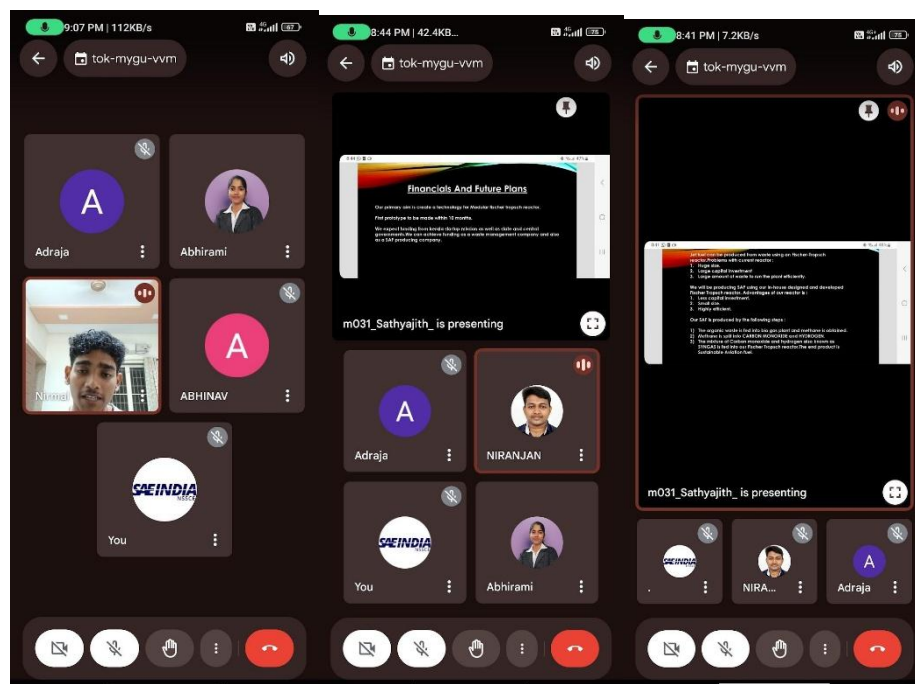
Venue: Online, Google Meet

As part of the SAEISS Student Convention 2024 Tier 1, a business plan presentation competition was held. Teams were asked to create a power point presentation of their business idea and present it accordingly, and they successfully completed the task.

No of Students: 7

Student Coordinators:

1. Pravda Padmakumar
2. Adraja V
3. Abhirami P K



Event: SAEINDIA Student Convention- Presentation Skills

Date : 26/10/2024

Venue : Kongu College of Engineering, Erode



Event: Online Webinar “Overview of EV in India

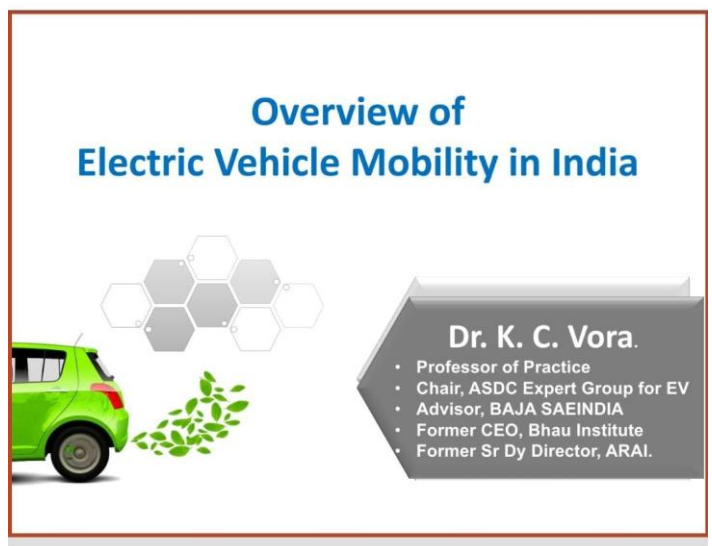
Date:28/12/2024

Venue :Online, Google meet

An online webinar by Dr. Kamal Kishore C . Vora where he detailed about the overview of Electric Vehicle in India

Student Coordinator:

1.Sathyajith Naryanan



Event: Geometric Dimensioning and Tolerance competition

Date :17/02/2025

Venue: Mechanical Seminar hall

GD&T quiz was conducted . The winning team which consisted of 3 students from 1st year civil engineering was sent to SJ CET, Palai, Kottayam. They scored all India 2nd rank at that competition.

Student Coordinators:

1 . Sathyajith Narayanan

2 . Niranjan M



Event: Bio Mimicry Competition

Date : 17/02/2025

Venue: Mechanical Seminar Hall

A Bio Mimicry Competition was conducted where students found solutions for problems which was inspired from nature. The winner team was sent to SJCET , Palai , Kottayam for SAE National Level Tier Event

Student Coordinator

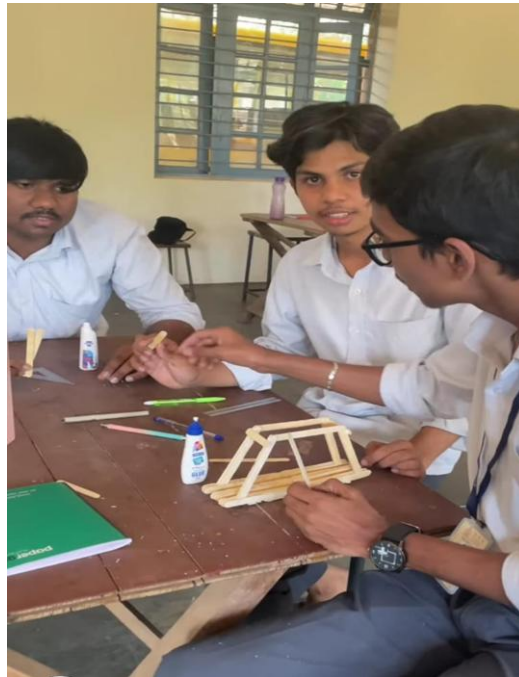
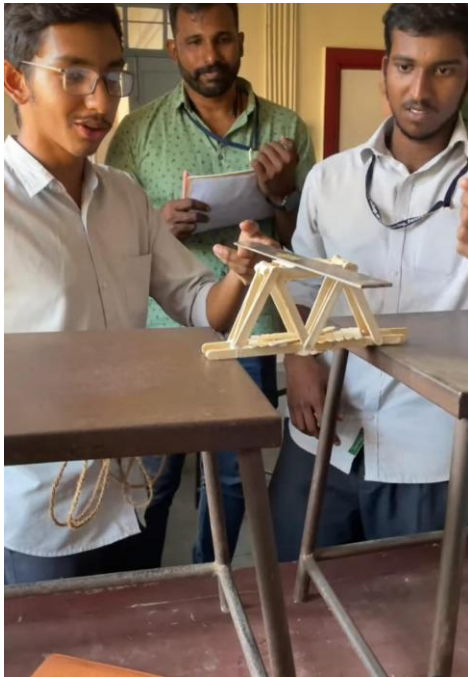
1 . Pravda Padmakumar

Event: Bridge Building competition

Date : 17/02/2024

Venue: Mechanical Drawing Hall

The competition saw participation from more than 12 teams . Teams were given Popsicle Sticks to make the bridge. The winner team was sent to SJCET, Palai , Kottayam for SAE National Level competition.



Student coordinators:

- 1 . Sathyajith Narayanan
- 2 . Arjun S
- 3 . Navaneeth Nair
4. Jimmy Johnson
- 5 . Ashlin S

Event: SAEINDIA Student Convention-Design

Date : 22/02/2025

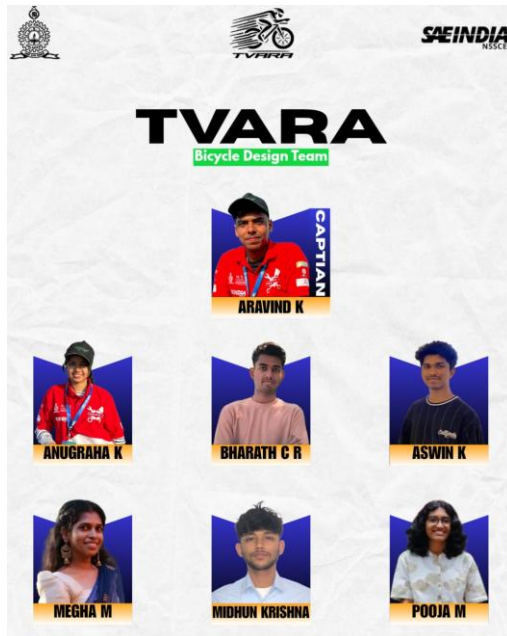
Venue : St. Joseph College of Engineering and Technology (SJCET), Palai

The winners from the college level tier events sent to the national level student convention held at St. Joseph College of Engineering and Technology (SJCET), Palai. Our GD&T team secured 2nd Position in National level.



Event: SAE Southern Section Bicycle Design Challenge 2025(BDC 2025)

Team registration was completed on the month of March . Team consists of 7 members



Event: SAE INDIA Aerothon 2025

Team registration was successfully completed on March .It consists of 10 members.

Event: Baja Buggy unveiling

Date: 04/04/2025

The unveiling of the Baja Buggy was done. Dr. Vinod V and Dr. Jacob Chandapillai, IIT Palakkad flagged off the buggy.



Event: Baja and SAE Panel Farewell

Date: 07/04/2025

Venue: E-one Hall

The event was organised to bid farewell to the outgoing Baja and SAE panel. The outgoing members shared their experiences, reflecting on their time in the panel. HOD Dr. Vinod V, Sreejith & Dipin Kumar ,Faculty Advisors, SAE NSSCE, addressed the students during the event.



Event: Annual General Body Meeting

Date: 25/04/2025

Venue: Mechanical Seminar Hall

The annual General Body Meeting of SAE NSSCE was conducted at the Mechanical Seminar Hall. The event included the introduction of the newly appointed SAE panel members for the upcoming term. The panel consists of 22 members.

