



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF AUTOMOBILE ENGINEERING & SAEINDIA COLLEGIATE CLUB OF SSMIET

Since 2013, **The Society of Automotive Engineers (SAE) Collegiate Club** has been functioning successfully in our college. Presently, the club has around 150 members from various department and 4 faculty advisors. The club is very keen in encouraging the young minds in the fields of automotive engineering. The SAE club provides opportunities for its members to build their intellectual knowledge in by way of organizing various workshops, seminars, guest lectures, technical contest etc., and a national level inter college technical contest "Raksha" is organized with a great success every year. We are proud that every year our club members participate and win in the student convention of SAE INDIA to bring laurels to our club. In this connection we are motivating our student members to participate in many of the national level events like SAEINDIA BAJA, SAE INDIA SUPRA, SOLARKART, MINIBIKE etc., and SAE Southern Section awarded our club with the Best Club Display Award among Southern section level. In addition to the above our faculty and student members received the Best Faculty Advisor Award, SEC post, Kalpana Chawala Award etc., these are the laurels to our club.

Inauguration of SAEINDIA SSMIET Collegiate Club

Inauguration of **SAEINDIA SSMIET Collegiate Club** association on 12th August – 2013 by Mr. B. Kannan, SKBR Auto Pvt Ltd. Madurai, along with Mr. K. Shanmugavel, Executive Director, Dr. R. Chandran, Campus Director & Mr. Ramesh ,HoD/Automobile set the backdrop for the club by lightening the lamp. Dr. R. Chandran, Campus Director praised the initiatives taken up by the SAEINDIA SSMIET COLLEGIATE CLUB headed by the Faculty Advisor Mr. M. HariPrasath in forging strong relationship with the SAE INTERNATIONAL CLUB. He also commended the efforts of SAEINDIA SSMIET COLLEGIATE CLUB to make this venture successful

About the club:

Change is permanent, progress is optional. SAEINDIA does not leave any stone unturned in its commitment to serve its member in the best possible way.

Objectives of the Club:

To conduct

- Seminar Programs,
- Workshops,
- Technical Symposiums,
- Technical Training programs
- Social Activities.

Mission:

To provide Strong Technical Knowledge for the student members and encourage them to build up their interpersonal skills.

Programmes Conducted by SAEINDIA Collegiate Club of SSMIET:**Student Convention:**

Student Convention 2014 was conducted for the first time in the history of SSMIET in a Grand Way. About 150 students participated in this Student convention. SAEINDIA SOUTHERN SECTION annual student convention was an opportunity for the students to showcase their skills and ideas to the industry and to the student community. It was a festival of technology for the students in all different forms of technical skills and knowledge pertaining to basic concepts of mobility engineering. It is SAEINDIA SOUTHERN SECTION's flagship event for students held year after year.

FACTORY VISITS:

Factory visits were conducted for the benefit of student members and faculty members. Factory visits along with excursion were conducted and those are

1. ARAI, Pune
2. Maruthi Suzuki, Haryana
3. India piston Chennai
4. TVS motor company Hosur

Our faculty advisor Mr. M.Nagnedrna, has visited the following companies, through SAE

1. ARAI, Pune
2. India Piston
3. Rane Brakes India
4. Lucas Fuel system

STUDENT MEMBERS PROGRAM:**RAKSHA:**

Followed by the achievements of Automobile engineering department, next we stepped into the event RAKSHA – 14 which was found to be the thought provoking mode for students of various streams of engineering. It ended with the great success of finding out new innovative talents and ideas. It was a inter and intra college events held for two days. It comprises of various events on both technical and non-technical events

- Technical paper presentation
- Technical quiz
- Aero-modeling
- Theatirx
- Clay modeling
- Water rocketry
- RC – IC Race car



SAEISS KRT

On August 2, 2014, SAEINDIA, the premier professional society and the largest affiliate of SAE International, USA, launched the **Knowledge Round Table** focusing on Teaching Learning process that took place at SSM Institute of Engineering and Technology, Dindigul. About 10 delegates from the global and domestic automotive industries participated in this event. The occasion was planned along with a one day TREK event on the next day at Thandikudi, which attracted 28 registrations from various Engineering Colleges across India.



The two day event began with the welcome address by Dr.R.Chandran, Campus Director, SSMIET who appreciated the SAE Activities as they provide an opportunity for Industry Expert and Academia to get weighed up on the latest technologies in the areas of Automobile Engineering.



This KRT provides a platform for exchange of ideas and knowledge to continue nurturing growth path through series of training and lecture sessions for student members of SAE as well as faculty members. The two day event was inaugurated by R.Selvamani, Vice-President, R&D, WABCO INDIA LTD., Shanmugam, Dr. R. Chandran, Campus Director, SSMIET and Dr.K.Palanichamy, The Principal, SSMIET. Mr. R. Selvamani, Vice-President, R&D, WABCO INDIA LTD., explained his journey with SAEINDIA in his inimitable style and highlighted the bonds developed with SAEINDIA are truly deep and strong and he would always be available for any help any time in future. He wished the students to make them involved so as to be promoted in their career.

A memento was given to SSMIET, which was received by the Campus Director, as a fond and affectionate remembrance of their valuable services and association with SAEINDIA.



Once all the participants are done with their jet toy car, they were taught the process of testing its feasibility and long run.



After this, their modelled car has been tested and the distances were noted. Out of a number of teams participated, a team got first place, as their car reached more the maximum distances fixed for testing.



The registered participants were grouped into a team of minimum 4 students and they enthusiastically started their modelling. The teams started fabricating their toys as soon as they got their hands on the kits.

At the end of the day, dinner arrangements were made by the student volunteers of SSMIET which was enjoyed by everyone.



As a part of dinner arrangements, a discussion session was arranged for the management peoples of SSMIET with the delegates, in which they focused on the job opportunities for Engineering students and the ways to build up relationship with the Industries.



SSMIET, Dindigul to Thandikudi Hills. They are held at scenic trekking locations which provide for great sense of adventure and bonding while providing some instructional learning pertaining to mobility engineering on the way. The trekking team was accompanied by a highly experienced engineering mentor, who blends learning with environment in the process. The students were challenged by the mentor to solve a problem within a limited time inspired by the natural ambience.

SAE Trek

It was a unique two day programme which is a blend of adventure and learning on 3rd August 2014 from Our college authorities made best of the arrangements to provide an environment that the future engineers deserve. The ravishing and enchanting arrangements by our students were appreciated by everyone.



Student Convention (TIER 3)

On January 30 and 31 – 2015, Student Convention held at Kalasalingam University, Viruthunagar. Students of Automobile, Mechanical, Electronics and Communication departments around 60 members participated in various events conducted there in line with SAEINDIA.



WORKSHOPS:

1. "Making and Running of Go-kart and MiniBike"



Our student Mr. S. Lingeshwaran of pre final year Automobile Engineering explained about our GO- KART car and mini bike to the Industry personalities



SKIP (Student Knowledge Improvement Programme)

A SKIP program is an intensive session of two days which is anchored by a eminent subject matter expert. It deals with one technical problem or process and the participants get to understand and discuss the subject threadbare. The expert also brings up the best practices on this subject with relevant case studies.

Topic: **Application of Finite Element Analysis,**

Date: **13 & 14 February 2015**

Resource Person **Dr. V. Ramamurti**, Advisor TAFE,

This program gives basic understanding of the fundamentals of Go kart and other related technologies required for making the go-kart.

2, Calibration of Fuel Injection pump:



A special workshop was designed for the polytechnic students. The resource person for this program was Dr.R.Palanichamy. Around 60 students participated in this workshop and get benefitted.

3. Design and Development of Mini Bike:



As a part of the workshop, before the actual process of making composite, a lecture was given by IITM professors to the participants about the fundamentals of Composite materials. After the class, the participants are then provided the materials needed for making Composite structures.

4. BAJA for Beginners:

This workshop is designed for the students who are interested in BAJA. We had a good gathering for this workshop. Around 45 students and 2 faculty advisors have participated and visited our BAJA lab facilities.

Participated Colleges:

- Kamaraj College of Technology, Virudhunagar.
- K Ramakrishna College of Technology, Trichy.
- Ramakrishna College of Engineering,Trichy.
- RVS Educational Trust group of Institutions, Dindigul.



4. Workshop on Composite Materials:



This program provided hands on training on making and running of a mini bike. This program received big applauds from the participants

LECTURE MEETING:

SAEISS successfully conducted the lecture meeting on April 4th, 2016 at SSMIET premises.

Expertise Speaker: **Dr.R Palanichamy.**

Topic: **Mathematical Modeling of Shock absorber**



FACULTY ADVISORS FORUM:

SAEISS successfully conducted the Faculty Advisors forum on March 26th & 27th, 2016 at SSMIET premises.



SAE INDIA BAJA 2015:

A National Level off road vehicle Design, Fabrication and Racing contest competition was conducted at **NaTRiP-Pithampur, Madhya Pradesh**, by SAEINDIA on Feb 16-23, 2016. Our Students from IV year and III year Automobile Engineering have participated in this prestigious event.



Awards & Achievements:

RIDE - 14 & 15

RIDE 14 – National Level Mini Bike Design, Fabrication and Racing contest competition was conducted at **Karpagam college of Engineering**, Coimbatore in association with SAEINDIA on 4th October 2014. Our Students from IV year Automobile Engineering have participated in this competition and won the 1st Prize and Overall Championship Award. Our students are the staying champions for the past two years.

BEST FACULTY ADVISOR AWARD:

Mr. M. HARI PRASATH, faculty advisor of SAEINDIA SSMIET Collegiate club has been selected for **“FACULTY ADVISOR OF THE YEAR 2014”** by SAEISS among 4 states and 466 faculty advisors. He received the award from the honorable president of SAEINDIA, Dr. Aravind Bharadwaj at a function held on December 20, 2014 at Chennai.

SAEINDIA SECTION AWARD:



Mr. S. Nasurudheen of final year Automobile engineering – SSMIET has been selected for “**THE STUDENT SECTION AWARD – 2014**”. He received award from honorable SAEINDIA president **Dr. Aravind Barathwaj**

STUDENT EXECUTIVE COUNCIL MEMBER:

Our student Mr.J.JEEVAPANDIAN of Pre-final year of Automobile Engineering has been selected as SEC member of SAEINDIA southern section

INDUSTRY VISIT TO TAFE:

SAEINDIA SSMIET Collegiate Club has organized a factory visit to TAFE on April 11th & 13th 2016.



Our Students Ms.J.Susima@saranya and Pavithra of Electronics and Communications Engineering have participated in SINE programme conducted by SAEINDIA Off Highway board and Visited the following companies

SAE INDIA BAJA 2017:

A National Level off road vehicle Design, Fabrication and Racing contest competition virtual round was conducted at Chitkara University, Chandigarh Patiala National Highway (NH-64), Punjab, by SAEINDIA on 10th and 11th. Our SAE Students from Automobile Engineering Department have participated in this prestigious event and Presented preplanning of BAJA 2017.



RIDE - 17

RIDE 17 – National Level Mini Bike Design, Fabrication and Racing contest competition was conducted at **Karpagam college of Engineering**, Coimbatore in association with SAEINDIA on 22th September 2017. Our Students from Automobile Engineering have participated in this competition and won the 1st Prize in Solar bike event and Second prize in 80CC bike event categories and Overall Championship Award, Duro Nachiyar award was secure by Pro.R.Rajavel AP/AUE in this year. Our students are the staying champions for the past five year



AUTO FEST 17

AUTO FEST 17 – National Level Mini Bike Design, Fabrication and Racing contest competition was conducted at **Karpagavinayagam University Chennai** in association with SAEINDIA on 2nd of September 2017. Our Students from Automobile Engineering have participated in this competition and won the 1st Prize in Solar bike event bike event categories and Overall Championship Award,



Motorage 2017

Motorage 2017– National Level Mini Bike Design, Fabrication and Racing contest competition was conducted at **Annai Vailankanni College of Engineering, Kaniyakumari dist.** association with SAEINDIA on 31st of August 2017. Our Students from Automobile Engineering have participated in this competition and won the 1st Prize in Solar bike event bike event categories and Overall Championship Award,



Cash awards

In 2017 at various National Level Mini Bike Design, Fabrication and Racing contest competition was conducted in overall Tamilnadu student association with SAEINDIA. Our Students from Automobile Engineering have participated in this competition and won the prizes and Overall Championship Award and also more Rs. 75,000 (Seventy five thousands), It is remarkable history at SSMIET so far.



GOKART

International F9 Go karting championship –competition was conducted Koshi motor, Bhubal (MP) India with association of SAEINDIA on 6th to 8th of September 2017. Our Students from Automobile Engineering have participated in this competition, preparation was very fine manner done by our students.



FUTURA 2K17:

The Futura 2K17 is the National level Tech Fest of Bannari Amman Institute of Technology encouraging fresh ideas from ambitious youngsters of the student community. It has been scheduled for the 7th, 8th and 9th on the month of September, 2017.

It puts forth a common platform where students irrespective of their branches, seniority and experiences unite together to showcase their skills. It is a Techno-Cultural fest with a multitude of events lined up in diverse categories of precisely chosen technical events, project contests and workshops based on schemes like 'Digital India', 'Make in India' and 'Skill India'. We ensure that you come out reincarnated with an experience of unique talents which unfold themselves as they engrave your minds more than ever.

We wholeheartedly present to you the Futura 2K17 which is a blend of Innovation, Cognition and Interaction giving you an experience a class apart.

RENNEN 2K17

RENNEN 2K17 is a National level Mini bike Design, Fabrication and Racing contest conducted SSM Institute of Engineering and Technology, Dindigul. RENNEN 2K17 is the first event in Dindigul to be conducted exclusively for mini bikes.

By the RENNEN 2K17 we intend to bring out the scintillating skills of the budding engineers in terms of motor spirit. A Motorcycle is an Independent thing where everyone is passionate, when passion becomes need it brings out perfection. And we need the passion of young India to be brought out. Who knows probably the work of designing by the competitors could bring out a new model; satisfying Make in India.

Every great dream begins with a dreamer. Always remember, you have within you the strength, the patience, and the passion to reach for the stars to change the world.

INAUGURATION OF RENNEN 2K17

Our department's grand event RENNEN 2K17 was inaugurated by our honorable chairman Shri.P. S. Velusamy at 10:30 AM. Before the inauguration of the event, our honorable secretary Shri. C. Kandasamy along with our principal Dr. M. Saravanan, Campus Director Dr. R. Chandran visited the event track and appreciated the work of our students' effort. Our faculties and students explained about the track design and the obstacles in the track to them and clarified about their doubts.





RC IC CAR EVENT

On October 5, 2017, there was one more event called RC IC CAR RACE EVENT. Totally 10 teams registered for the event from various engineering colleges and took part in the event. Our honorable chairman inaugurated the event and the event was finished in grand manner



TIER1

On October 6th and 7th 2017, there was conducted SAE tier 1 event at our College, Our SAE students member was participated many event, who got first place there are eligible to participate tier 2 event. Winner was received merit certificate From SAE India.

TIER 2

On January 3rd 2018, Tier 2 (Divisional level) events there were conducted SAE India Kongunadu College of Engineering and Technology, Trichy. Who got first place there are eligible to participate tier 3 (South India Level0 event Winner was received merit certificate From SAE India.