



JSS Mahavidyapeetha  
**JSS Academy of Technical Education**  
Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060  
www. Jssateb.ac.in



**Department of Mechanical Engineering**



**Preamble:**

SAE (Society of Automotive Engineers) <https://saeindia.org> INDIA mainly focuses on mobility professionals at all levels across our nation from Automobile, Aerospace and off Highway sectors. SAEINDIA has built over these years several flagship events caters to both working professionals and engineering students. SAEINDIA being fully supported by OEMs, Tier1, Tier2 Suppliers and Government Institutions in providing technical content for the events.

**Scope & objectives**

This SAE forum gives a platform to students, to exhibit their technical skills, design and fabrication skills, presentation skills, and communication skills in organizing various events for students in the automobile field.

Following are the office bearers of SAE Collegiate Club of JSSATEB:

SI No	Name	Designation	Department	Role
1	Dr. Devappa	Assistant	Mechanical	Faculty Coordinator

		Professor	Engineering	/Mentor	
2	Dr. Sathish Seth	Assistant Professor	Electronics & Communications Engineering	Faculty /Mentor	Coordinator
3	Mr. Prabhushankar M R	Assistant Professor	Industrial Engineering & management	Faculty /Mentor	Coordinator

### **Benefits to Students and faculty:**

Following programs are offered for faculty and students by SAE. Refer the web link for more details. <https://saeindia.org>

1. BAJA SAEINDIA
2. SUPRA SAEINDIA
3. A World in motion ( AWIM )
4. Skill India Program
5. MANOVEGAM
6. Electrifying Green Aspiration (EGA)
7. TIFAN
8. Efficycle
9. SAEINDIA Foundation
10. AERO Design
11. Tractor Design Competition

### **Activities under SAE India (2018 - 19) from JSSATEB.**

#### **SAE Range Extended Electric Vehicle. (REEV)**

1. The preparation of the project started in April-2018, and its continuous process of Research and Analysis. A Multi-disciplinary team consisting of Mechanical Engineering and Electronics and Communication Engineering was formed to design and fabricate a Hybrid Car and participate in REEV 18-20. The team was divided into various subsystems in preparation of the REEV Virtual.

## **SAE REEV VIRTUAL2019 WINNERS**

The JSS REEV Team took part in the virtual round of the event in the month of February of 2019 hosted by SAE - General Motors at Acharya College and secured 1st place among several other prominent colleges across the Nation.



*Receiving the winner's trophy from Mr. Brian McMurray, Vice President, General Motors*

## **UNVEILING OF REEV CAR at JSSATEB.**

The car was unveiled at the campus in the presence of our respected principal, Dr. Mrityunjaya V Latte, Mentors Dr. Bhimasen Soragaon and Dr. Siddesh G K, Faculty Advisors Dr. Devappa and Dr. Sathish Shet K, Mr. Mahadeviah from Accounts Department and other respected staff members on 5th February 2020.



*The REEV Car unveiled to the faculty and staff.*

## **SAEREEV FINALS 2020 WINNERS**

The JSS REEV Team successfully completed the fabrication of the Hybrid Car and participated in the REEV-2020 Finals event held at Mecor Kartopia, Bangalore on 7<sup>th</sup> and 8<sup>th</sup> of February 2020 and secured the first place. The team was also awarded a cash prize of Rs. 60,000 for their stellar performance. TVS, General Motors, Continental, MathWorks, Dassault Systems, Faurecia and other large companies were part of the event, helping the students interact and get an insight into the automotive world. Some students of the team were also given recruitment opportunities by the automotive company Faurecia and General Motors. The Hon'ble Home Minister, Mr. Basavaraj Bommai graced the event as the Chief Guest and shared his personal experience as a Mechanical Engineer.



*Hon'ble Home Minister, Mr. Basavaraj Bommai with judges for vehicle inspection*



*Receiving the winner's trophy and cheque from Mr. Brian McMurray, Vice President, General Motors*



*JSS REEV Team presenting the Winner's trophy to HOD-ME, Dr. Bhimasen Soragaon*

## REEV TEAM MEMBERS

1JS16ME057	PRATHEEK SUDI Team	Captain, Chassis Head, Power train
1JS16ME059	R NANDANV.	Captain, Suspension Head, Brakes, Power train
1JS16ME435	S PRAVEEN KUMAR	Team Manager, Power train, Marketing Head
1JS16EC002	AHANA SHETTY	EC Head, MCM, Sensors
1JS16EC051	DEEPALI N M	MCM, Generator, Engine control
1JS16ME059	NUTHAN S	Suspension design and Power train
1JS16ME017	CHANDAN KUMAR B S	Brakes, Regen braking
1JS16ME016	CHANDAN B S	Chassis design and skin
1JS16ME071	REUBEN QUADROS	Brakes and part design
1JS16ME012	B P VASUDEVA RAO	Suspension design and analysis
1JS16ME015	BRIJESH KAMATH	Chassis Analysis, Brakes
1JS16ME087	SRIKANTH A K	Steering design and calculations
1JS16EC003	AJAY S KASHYAP	Display, 12V circuit, sensors
1JS16EC039	KOMAL K	Sensors, Generator, Display
1JS16EC021	DEEPAK R BHOJANI	Display
1JS16EC029	HARSHITA BHOJANI	Engine RPM Control
1JS16EC054	NAVYA PRASAD	Ignition kill switch
1JS16EC019	CHINMAYA ARUN	V wiring
1JS16EC012	ASHVIN M	Fuel sensor

**Faculty Coordinator for REEV**

1. Dr Siddesh G K, HOD , ECE , Mentor.
2. Dr. Bhimasen Soragaon, HOD, ME, Mentor.
3. Dr. Devappa , Faculty Mentor, ME Dept.
4. Dr. Sathish Shet K, Mentor, ECE Dept.

**Other Activities under SAEINDIA**

2. MANOVEGAM 2017-A team of 7 students from IEM and Mechanical Engineering. Developed a GLOW ENGINE AIRCRAFT and took part in MANOVEGAM 2017. The team won a cash prize of Rs 10,000 for the BEST DESIGN REPORT. 14th and 15th April 2017.
3. AERO MODELLING WORKSHOP-An Aero Modeling workshop was organized in association with Happy Landings India Pvt. Ltd. 9th and 10th Sept 2017.
4. FFS INDIA 2017-A team of 21 students competed in FFSINDIA 2017 at KARI MOTOR SPEEDWAY, COIMBATORE. For The team manufactured a STUDENT FORMULA CAR. 6th to 10th Oct 2017.
5. HYBRID TWO-WHEELER CHAMPIONSHIP 2017-A team of students are worked on a two wheeler, two passenger engine and electric motor hybrid vehicle. They took part in virtual round held at TVS Institute of Quality and Leadership, Hosur. 14th Oct2017
6. About 15 students of Mechanical & Electronics Engineering Departments students & Faculty adviser Mr.G.M.Swamy Asst.Professor , Department of Mechanical Engineering attended for TVS MAVERICS Hybrid (Hybrid scooter-Petrol run & Electrical drive).Our students clear the virtual round & got 4<sup>th</sup> place out of 19 teams participating across the country at TVS Co. Attibele Bangalore on 14<sup>th</sup> October 2017. After that JSS Management sanctioned Rs.1,70,500 to design a TVS Jupiter scooter for final competition & TVS Company sponsored TVS new vehicle for the final design. This vehicle is petrol start & electrical run. Students designed & attended the competition with vehicle & won the first prize & with cash amount of Rs.25,000 & awarded with certificates

on 15<sup>th</sup> & 16<sup>th</sup> June 2018 ,The total 12 selected teams are participated & our team has won the first prize at TVS Company, Attibele ,Bangalore .Design with hub motor, sensors & Electrical circuits changes & small chassis design. Now further students can use further research to this TVS Jupiter vehicle & can run with in the campus.



### **Students Team**

<b>SI No</b>	<b>Students Name</b>
1	Bharani S Anand
2	Suraj S
3	Nikhil Singh
4	Arvind G
5	Aditya Saurav Vijay
6	Srinivasa Sai Bharath
7	Basavakiran M
8	Sathta Pratyush K S
9	Ambarish Tirumalai
10	Skanda Bharadwaj H S
11	Sai Krishan G
12	Supreeth A Gowda
13	Yashaswin Mayya
14	Vishal Venkatesh
15	Anuroop P Das

### **Faculty Adviser**



Dr. G.M.SWAMY  
Assistant Professor,  
Department of Mechanical Engineering.