



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A++' Grade and NBA Accredited
Approved by AICTE, New Delhi, Affiliated to JNTU Hyderabad
Recognized as "College with Potential for Excellence" by UGC

DEPARTMENT OF AUTOMOBILE ENGINEERING

PROFESSIONAL SOCIETIES & ACTIVITIES

The Department of Automobile Engineering provides an opportunity to the students to enhance their overall education experience through a wide range of Extra-curricular and Co-curricular activities that include social, cultural, intellectual, recreational and professional student chapters. Technical activities are planned and executed through Automobile Engineering Association, ISTE (Indian Society for technical Education), IEI (Institution of Engineers), Society of Automotive Engineers (SAE) student chapter and various student clubs run by the Department. Professional society student Chapter is very strong and active and is managed by the Executive body of students with the guidance of the faculty-in-charge.

Determined to succeed

SRIRANGAN S.

DECCAN CHRONICLE

Youth of today are the future of tomorrow. Corroborating this, the students of VNR Vignana Jyothi Institute of Engineering and Technology (VNR VJIET) have constructively turned their dreams into reality. They are the only team to represent India in the ninth edition of 2011 Student Formula SAE Competition, which is a contest for object creation and design, will be held at ECOPA (Ogasayama Sports Park), Shizuoka Prefecture, Japan.

The Hyderabad-based engineering students will be flying to Japan to compete against 75 teams from Japan, China and Thailand.

The competition is about building a prototype car and speaking about the problems faced in developing the prototype, K. Raghu from the air intake department says, "We are a group of 15 and we divided the work, selecting the department based on our interests. From the designing stage to procurement of tools and materials, the whole process was tough. We scouted for our materials from different states in India and had to import the engine from USA — we had to bribe the custom officials to get our things done!"

With hardly any experience, these creative students have had their share of ups and downs, but have had the courage to face them head on.

Students of a city engineering college have built a prototype racing car that has been selected to represent India



Students of VNR VJIET posing with the prototype formula car they have developed.



K. Raghu, air intake department

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The driver of the car is Nitin Neralkar of the cooling system department. "The knowledge that we have gained out of this and the practical exposure we have had, is more interesting than the daily bookish knowledge."

About being the only team to be selected from India, Narra D. of the brakes and tires department opines, "It feels great to be the only team to be selected out of the 10 teams that registered from India. We will make sure that

we set up a solid foundation for our juniors." Sharing in the happiness, Rakesh Shinde says, "The best part of this incredible journey was when our team got selected. Our chairman readily sponsored us with ₹8.16 lakh."

B. Prathyush, car body and design department, is very hopeful. "We are going to make this project a grand success, I feel great to be a part of this team. Our team works well together and we hope to make it to the big league."

Formula Team Students article in Decan Chronicle News Paper



Formula car team in JSAE competition Japan 2012



Formula car team in JSAE competition, Japan 2011



International Gkart team LPU, Jalandher 2014



Team in Formula Bharat, Coimbatore, 2017



Formula car team in FSINDIA competition Coimbatore. 2015



Team participated in SAE BAJA, 2017/2018

SAE Students participated in different SAE Events



Students of AE & ME have participated in SAE Aero Design-2020



Achieved Frist Prize at Student AUTO EXPO 2020, Hyderabad



SAE Team in Student AUTO EXPO 2020, Hyderabad



Students of AE & ME have participated in BAJA SAEINDIA-2020



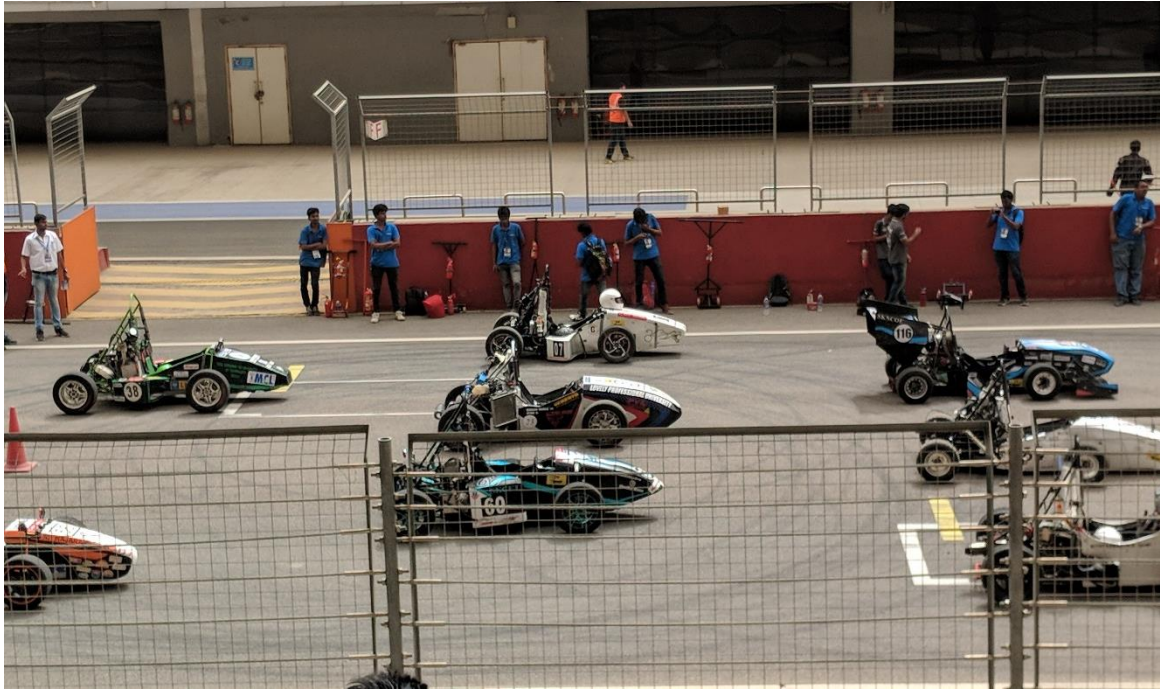
Students of AE have participated in BAJA SAEINDIA-2020



Students of AE & ME have participated in BAJA SAEINDIA at IIT ROPAR from 7-10 March 2019



Students of AE have participated in SUPRA SAEINDIA at Budh International Circuit, Delhi, 2018



Students of AE have participated in SUPRA SAEINDIA at Budh International Circuit, Delhi, 2018



Technical Inspection at Formula Bharat, Coimbatore-2017



Students of AE have participated in BAJA-2017



Students of AE have participated in JK Tyre Formula event-2015



Students of AE have participated in Go-Kart -2014, LPU



Students of AE & ME have participated in SAE Japan-2012



Students of AE & ME have participated in SAE Japan-2012

Professional societies/chapters and organizing engineering events

A. Availability & activities of professional societies/chapters

SAEINDIA is India's leading resource for mobility technology. SAEINDIA is a strategic alliance partner of SAE International registered in India as an Indian non-profit engineering and scientific society dedicated to the advancement of the mobility industry in India.

SAE India at VNR VJIE Society of Automotive Engineers (SAE) has been formed in 2010. The advisory board members of SAE India at VNR VJIE are Dr. Shaik Amjad and Dr.M Venkata Ramana.

SAE student chapter was established with an **exclusive Laboratory** so that students can participate in various National and International SAE events.

On an average of 100 students and faculty from the department are continuously engaged in SAE activities and has SAE membership.

List of activities under SAE are as follows:

1. **FSAE JAPAN:** Formula SAE Japan (FSAEJ) is an opportunity for students to develop skills for object creation "MONO-ZUKURI", which in turn contributes to the expansion of the Japanese automotive industry. VNRVJIE SAE student chapter has one been to Japan for participation of JSAE.

2. **SUPRA SAEINDIA:** SUPRA is being organized annually by SAEINDIA with the support of Maruti Suzuki, the event provides a platform for students to apply their engineering skills to design and construct a Formula category vehicle as per defined performance and safety specifications.
3. **BAJA SAE:** The BAJA SAE tasks the students to design, fabricate and validate a single seated four – wheeled off road vehicle to take part in series of events spread over a course of 3 days that test the vehicle for the sound engineering practices that have gone into it, the agility of the vehicle in terms of gradeability, speed, acceleration and maneuverability characteristics and finally its ability to endure that back breaking durability test.
4. **SAE Aero Design:** The purpose of the SAEISS Aero Design Challenge is to promote and develop Indian expertise and experience in unmanned systems technologies at the university and college levels. The competition is intended to provide undergraduate and graduate engineering students with a real-life engineering challenge.
5. **Go-Kart:** Go-Kart Championship is a student challenge with a mission of encrypting students with technical as well as practical knowledge of manufacturing and building up a go-kart. The mission is accomplished by the ambition of these students to compete at national and international championships.
6. **Formula Bharat:** Formula Bharat is an engineering design competition in which students from colleges and universities all over the country, compete with a life-size Formula-style vehicle in areas of engineering design, overall cost, marketability and dynamic performance. The series replicates the global student Formula series hosted in around 11 countries per year.
7. **JK Tyre Formula Design:** It endeavored to create an eco-system to provide racing opportunities to enthusiasts and an instant thrill to speed lovers in the country.
8. **SAE Student Convention:** Student Convention is special in the Calendar of SAEINDIA Southern Section as this involves the stake holders of the future, our student community. The convention showcases student abilities (Technical, Design, Fabrication, Problem Solving, Experience sharing and networking (belief in collective and fraternal growth), Motivating students to take up automotive sciences as career.
9. **Engine Assembly & Disassembly:** It is an event organized by **VNRVJIET SAE student chapter**. Students from different universities/colleges shall be participating in the engine assembly and disassembly. This provides a practical exposure on engine and its components and its working. Exclusiveness of this program is that organizing, conduction and teaching for participants is completed done by students of VNR VJIET SAE student chapter.
10. **RC Racing:** Radio-controlled cars (or RC cars for short) are miniature model cars or trucks that can be controlled from a distance using a specialized transmitter or remote. The term “RC” has been used to mean both “remote controlled” and “radio controlled”, where “remote controlled” includes vehicles that are controlled by radio, infrared or a physical wire connection.
11. **Automania:** This is an even that is organized by **VNR VJIET SAE Student chapter**. It aims in engaging academic knowledge of student’s with current market trends and vehicular updates.
12. **Autotriva:** This is an even that is organized by **VNR VJIET SAE Student chapter**. It aims in engaging academic knowledge of student’s with current market trends and vehicular updates.
13. **Workshops:** **VNR VJIET SAE Student chapter** is aimed to conduct various workshops on design and development of vehicles for above mentioned motorsport events and other technical events.
14. **Guest Lectures:** To provide industrial exposure apart from all these events, guest lectures are organized.

15. **Technical Seminar:** Students are encouraged to organize and attend technical seminars and SAE paper presentations at various institutions. Couple of students have achieved **first prize** in such events.

Professional Society Activities						
S.No	Event	Organized/ Participated	Venue	Dates	No. of Students Involved	Faculty Involved
1	SAE Aero Design 2020	SAE INDIA	Bannari Amman Institute of Technology, Erode, Tamil Nadu	28 th Feb – 1 st March 2020	6	Ch. Vamsi Krishna
2	BAJA SAE India 2020	SAE INDIA	Pithampur-Indore	22 nd -28 th Jan 2020	4	Nagaraj Shet
3	BAJA SAE India 2019	SAE INDIA	Punjab	07 th – 11 th March	5	K. Prashnath, Nagaraj Shet
4	SAE Supra 2019	SAE INDIA	Buddh International Circuit, New Delhi	15 th -20 th July	25	B.PavanBharadwaja K. Prashanth
5	BAJA SAE India 2018	SAE INDIA	Punjab	24 th -30 th Jan 2020	8	K. Prashanth
6	SAE Supra 2018	SAE INDIA	Buddh International Circuit, New Delhi	11 th – 16 th June 2018	23	B.Pavan B K. Prashanth
7	Formula Bharat 2017	SAE INDIA	Kari Motor Sport, Coimbatore	26 th – 29 th Jan 2017	37	Dr. M. Venkata Ramana B.Pavan Bharadwaja
8	BAJA SAE India 2017	SAE INDIA	Pithampur-Indore	13 th -20 th Feb 2017	4	R. Ramu
9	Engine Assembly	VNRVJIET SAE Student	VNRVJIET	25 th -Sept 2019	20	GVL Prasad

	& Disassembly	ChapterConvergence-2019				
10	RC Racing	VNRVJIET SAE Student ChapterConvergence-2019	VNRVJIET	25 th -Sept 2019	18	B.Pavan Bharadwaja
11	Automania	VNRVJIET SAE Student Chapter Convergence -2019	VNRVJIET	25 th -sept 2019	12	Suresh D
12	Autotrivia	VNRVJIET SAE Student Chapter Convergence -2019	VNRVJIET	22 nd -March 2019	74	M.Venkata R Shaik Amjad
13	SAE Student Convention Tier-III	VNRVJIET SAE Student Chapter	VNRVJIET	30 th -31 st March 2018	4	M. Venkata Ramana
14	Workshop on “Dynamic Analysis Using Adams/Car ”	VNRVJIET SAE Student Chapter	VNRVJIET	05 th -06 th Feb 2018	3	K. Prasanth M. Venkata Ramana
15	SAE Student Convention Tier – II	VNRVJIET SAE Student Chapter	VNRVJIET	30 th -Dec 2017	1	M. Venkata Ramana
16	Technical Seminar On Advances In Automobile Engineering	VNRVJIET SAE Student Chapter	VNRVJIET	03 rd -Feb 2017	8	M. Venkata Ramana

17	Workshop on “Electric mobility and Its Ecosystem”	Department. of Automobile Engineering	VNRVJIET	17 th -18 th Feb 2020	10	Krishna Kumar
18	An Expert Talk By Sri shreyasDev ershetty on “ Thick shake factory”	Entrepreneur ship and Development Cell	VNRVJIET	17 th -Feb 2020	19	K.Kodanda Ram
19	An Expert Talk by Sri CharanLak k Raju on “Business model canvas & business modelling”	Entrepreneur ship and Development Cell	VNRVJIET	12 th -Feb 2020	14	K.Kodanda Ram
20	An Expert Talk by Sri KrishNange gadda on “NU-IDEA India”	Entrepreneur ship and Development Cell	VNRVJIET	18 th -Dec 2019	12	K.Kodanda Ram