



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

(An Autonomous Institute under Kakatiya University, Warangal)

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काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना राज्य, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015. తెలంగాణ రాష్ట్రం, భారతదేశము

DEPARTMENT OF MECHANICAL ENGINEERING

A Report
on
SAE INDIA KITSW
COLLEGIATE CLUB
ACTIVITIES & PARTICIPATION
From Academic year
2018-2019 to 2022-2023

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SAEINDIA KITS COLLEGIATE CLUB

An SAEINDIA Collegiate Club is the best gift a college management can give to its students. An SAEINDIA Collegiate Club imparts a framework to the creativity and scientific thirst of students by providing avenues to students to solve engineering problems of real nature, learn to manage projects in a collaborative environment and keep themselves abreast with the latest in mobility engineering. It also helps them become more ready to work in the industry as committed collegiate club members may develop personal and professional attributes that may be valued by potential employers. Now the club has been running with 74 members of mechanical engineering students.

SAEINDIA Southern Section is a premier society that serves the cause of mobility engineering. It is a unique society that includes professional engineers who serve different OEMS and SUPPLIERS , academia as well as budding engineers (students) who aspire to be part of the professionally attractive field of mobility engineers. We believe that Mobility Engineering is a knowledge rich field and that learning and sharing can be fun and rewarding. To this end, SAEISS organises several events throughout the year, runs programmes that enrich and engage and conducts lectures and symposia. It is a part of SAEINDIA.

SAEINDIA is a Premier Professional society that serves the Mobility Engineering Community engaged in the design, manufacture and service of self propelled vehicles and systems that move in land, sea, air and space. It is an affiliate society of SAE International which is head quartered in USA and has a glorious record of over 100 years of service to the mobility community. SAEINDIA works closely with other fraternal societies such as Society of Indian Automobile Manufacturers (SIAM), Automotive Component Manufacturers of India (ACMA) and American Society of Engineers of Indian Origin (ASEI) for spreading knowledge and relevant information to a wider cross section of the Indian community. It is also a member of International Federation of Automotive Engineering Societies (FISITA).

BAJA SAEINDIA

BAJA is an inter-collegiate event organized by SAE to provide SAE student members with a challenging project that involves design, engineering, planning, manufacturing, marketing and racing an All-Terrain Vehicle. Each team's goal is to design and build a prototype of a rugged single seat, off-road recreational four-wheel vehicle intended for sale to the non-professional, weekend off-road enthusiast. The competition goals include that the vehicle must be safe, easily maintained and fun to drive. It should be able to negotiate rough terrain in all types of weather without damage.

SUPRA SAEINDIA

Formula SAE program is an engineering design competition for undergraduate and graduate students. The competition provides participants with the opportunity to enhance their engineering design and project management skills by applying learned classroom theories in a challenging competition. The engineering design goal for teams is to develop and construct a single-seat race car for the non-professional weekend autocross racer with the best overall package of design, construction, performance and cost.

The concept behind Formula SAE is that a fictional manufacturing company has contracted a design team to develop a small Formula-style race car. The prototype race car is to be evaluated for its potential as a production item. The target marketing group for the race car is the non-professional weekend autocross racer. Each student team designs, builds and tests a prototype based on a series of rules whose purpose is both to ensure onsite event operations and promote clever problem solving. The vehicle will be inspected in a series of tests to ensure it complies with the competition rules; in addition, the vehicle with driver will be judged in a number of performance tests on track. The rest of the judging is completed by experts from motorsports, automotive, aerospace and supplier industries on student design, cost and sales presentations.

SAE Effi-Cycle

SAE NIS EFFI-CYCLE is an Intercollegiate design competition for the undergraduate and graduate engineering students where team of 6-10 students have to design and fabricate an energy efficient Hybrid human powered three wheeled electric vehicle.

This event provides opportunity for the engineering students by setting up the trend of using eco-friendly vehicle in India and come up with some innovative designs.

The vehicle should be capable to be driven simultaneously as well as alternatively by two drivers and also run simultaneously or alternatively on an electric drive.

The Design Contrivance

1. A three wheeled two-seater vehicle which would cater to the day-to-day mobility needs of people.
2. Designed ergonomically and dynamically stable enough to cover large distances.
3. For Custom applications in Educational Campuses, Manufacturing Facilities, Recreation, etc.

Student Convention

SAEINDIA Southern Section Annual Student Convention is an opportunity for students to showcase their skills & ideas to the industry and to the student community as well as to share, compete and learn in the process. It is the festival of technology for students and all different forms of technical skill and knowledge pertaining

to basic concepts of mobility engineering, engineering design challenges, and technical theatres are all present in one roof during these two days. It is SAEINDIA Southern Section's flagship event for students.

The annual fixture is a fiercely contested multi-tier set of events. In fact, aspiring students have to prove themselves to be the best in their college level events followed by Division level. Only those who successfully qualify get to be invited to the Student Convention.

Student Conventions are a confluence of skills, creativity, competition. Student Convention 2012 promises to be no different. This edition is being organised in 3 tier formats.

College Level. Compete and win and move to the Tier 2.

Division Level finals at Divisional Centres will pit the best teams from that region amongst one another. Top teams from colleges compete in this tier. The top 2 teams from this edition qualify to compete in the finals at the Convention. Only the best survives and more to the grand finale.

Convention Level: Two days of top-class fun, learning and competition. Lot of prizes (and memories) to take home. On Day 1 of the convention, all event finals will be conducted. On the second day, all concluding functions would be organised. In addition to the 9 competitive events, there would also be an exposition of collegiate clubs to coincide to bring in tremendous mutual knowledge sharing. In addition, there would be a Technology Theatre, would help the participants get exposed to some of the latest industry trends and technologies. There would also be a Faculty Advisors workshop and to top it all, Club Officers Forum would meet alongside of this conference.

Student Convention has been designed to test the skills of student members across a broad spectrum. Participants can look forward to the following 7 major contests:

Sl No.	Event name
1.	Business Plan
2.	Aero Design and Fabrication
3.	Technical Paper Competition
4.	Auto Quiz
5.	Modeling and Animation
6.	Computer Aided Manufacturing
7.	Computer Aided Analysis
8.	SAEINDIA Innovation Award



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15

(An Autonomous Institute under Kakatiya University)

Department of Mechanical Engineering

1. The club was inaugurated on 26th Feb 2009 by Dr. PADMANABHAM, Associate Director, and ARC - Hyderabad.
2. Organized TIER – I events on 13th August 2010. Aero modeling, Technical Paper presentation, Auto Quiz, Business Plan CAD Modeling.
3. Hosted SAE-INDIA TIER-II (AP Division mini-Convention) on 30th August 2010 Sri S. Srinivasa Rao Scientist-E CVRDE Chennai was the Observer.
4. Participated in TIER III event at Chennai.
5. Organized a one day Industrial visit to South Central Railway work shop Lalaguda.
6. Organized a one day factory visit to ASHOK LEYLAND Chennai on 23rd September 2010.
7. Organized a one day factory visit to ASHOK LEYLAND Chennai on 05th October 2010.
8. A team of 5 Students attended a workshop at SARDAR PATEL JAIN College Mumbai organized by SAE-BAJA for selected Candidates of BAJA 2011.
9. Mr. A. Vamshi Krishna, pre final year student attended SAE COLT (Club officer Leadership Training) program held on 25th and 26th Feb 2011 At Chennai.
10. Organized one day visit to Vasantha Tool Crafts, Hyderabad, 17th March 2011.
11. Organized TIER – I events during 11th – 13th August 2011. Aero modeling, Technical Paper presentation, Auto Quiz, Business Plan CAD Modeling.
12. The student team representing our institution has cleared the SAE INDIA VIRTUAL BAJA 2012 competition held during 19th – 20th August, 2011 at Dayanandsagar College of Engineering, Bangalore.
13. The student team representing our institution has cleared the VIRTUAL SUPRA SAEINDIA 2012 competition held during 27th – 29th January, 2012 at ANSYS Inc., Pune.
14. Mr. K. Veeresh Kumar, a pre final year student attended SAE COLT (Club officer Leadership Training) program held on 31st March & 1st April 2012 at St. Xavier's Tamil Nadu.

S.NO	Event Participated	Organized by	Venue	Dates	Award/ Reward	Pictures
1.	TEAM Maiden mob -SAE-BAJA 2010	SAE-INDIA	Indore	29th to 31st Jan 2010	Secured 13 th position in National level.	
2.	TEAM Maiden mob -SAE BAJA 2011	SAE-INDIA	Indore	28th to 31st Jan 2011	The team stood at 30th position in National level.	

3.	LEGIONS'F 1- SAE INDIA BAJA 2012 .	SAE-INDIA	Pitampur, Madhya Pradesh	competition held on 17th Feb 2012	Participated	
4.	LEGIONS'F 1 SUPRA SAEINDIA 2012, MAIN EVENT	SAE-INDIA	Buddh International Circuit, Noida, Delhi	during 6th - 9th September 2012	achieved "ALL INDIA 16TH POSITION" OU T OF 65 teams and "AP 2nd POSITION"	
5.	SAENIS EFFICYCL E – 2013, MAIN EVENT	SAE INDIA Northern Section	University Institute of Engineering & Technology, Punjab University, Chandigarh	11 th -13 th October, 2013	39th Rank at National Level	

6.	SAENIS EFFICYCLE – 2015, MAIN EVENT	SAE INDIA Northern Section	Lovely Professional University – Punjab			
7.	Effi-Cars- 2015	Effi-Cars	UIET- Chandigarh	21 st – 25 th January, 2016.	Overall 3rd Position With 65,000 Rs cash prize	
8.	SAE SUPRA- 2016	SAE INDIA Northern Section	BIC-Noida	4- 9 th July - 2016	40th Position	

9.	FORMULA BHARAT- 2017	FORMULA BHARAT	Kari Motors Speed Way- Coimbatore- Tamilnadu	25-29 january- 2017	30th Position	
10.	SAE SUPRA- 2017	SAE INDIA Northern Section	BIC-Noida	26 th June to 1 st July- 2017	Participated	
11.	FFS-FMAE- 2017	FFS-India	Kari Motors Speed Way- Coimbatore- Tamilnadu	7-9 OCTOBER -2017	9th Position	

12.	Effi-Cycle-2017	SAE INDIA Northern Section	LPU- Jalandhar, Punjab	1 st to 5 th November, 2017.	30th Position	
13.	NEKC - 2018	Credible Future	RKDF University Bhopal	20 th March – 23 rd March 2018	Secured 6th position, best Team Spirit Award and a cash prize of 5000 rupees.	
14.	FFS-FMAE 2018	FFS INDIA	Kari Motors Speed Way- Coimbatore- Tamil Nadu	28 th September to 3rd October		

15.	NEKC-2019		State Technical University, Bhopal	26 th March, 2019 to 29 th March, 2019.		
16.	SAE SUPRA 2019	SAE INDIA Northern Section	BIC-Noida		Overall 63rd position out of 120	
17.	FFS-FMAE 2019	FFS INDIA	Kari Motors Speed Way- Coimbatore- Tamil Nadu	September 28 th – 3 rd October, 2019	Overall 5th position and secured 3rd in business plan presentation	

18.	FORMULA BHARAT 2020	FORMULA BHARAT	Kari Motors Speed Way- Coimbatore- Tamil Nadu	January 22nd - 26 th ,2020	Overall 28th position	
19.	NEKC-2020		Institute of Design (NID) - Bhopal	1 st March, 2020 to 5 th March, 2020	lightest vehicle award and placed 5th in endurance	

FFS 2018

Force Racing, an official formula student team from the prestigious institute **KITSW**. It is a team of 35 young talented automobile enthusiasts who will design, fabricate and market a formula student type vehicle. Every year this team participates in three national level design competitions where teams from all over the country come with a common aim to learn the engineering and managing skills. The competitions are SAE SUPRA, FFS_FMAE, FORMULA BHARAT.

This year we have participated in FFS_FMAE. FFS FMAE was held in the months of September-October, dated 28th September to 3rd October. The team performed their level best, yet failed to enter the track because of some technical issues.

We have started our design work in the month of February keeping our design goal in mind which was to make a car with the smallest wheel-base possible. This tough goal compromised us with the height of the car. Hence we had to make nearly 7 iterations for our initial design to satisfy the rules and our goal. The design was finalized in the month of June and manufacturing was started. Due to the delay in the delivery of the ordered materials the fabrication of the car was delayed. However with good support from all the teammates we were able to manufacture the car before the event.

The event FFS_FMAE was held from **28/09/2018 to 03/10/2018** at **KCG college of engineering** and **KARI MOTOR SPEEDWAY, Coimbatore**.

On 27/09/2018 our project has been shipped to Coimbatore. The team has started its journey towards Coimbatore after the shipping of our project. The team has been reached there after a 20 hours of continuous journey on 27th September and taken the accommodation at OYO KAMADHENU RESIDENCY, which was 20 km far away from the event site.

Day 1: (27/09/2018)

We had one day left for the event. Hence we bought some necessary tools in the nearby shops and revised our cost and sales reports.

Day 2: (28/09/2018)

On the first day of the event there was registration and pre-technical inspection. We along with our teammates registered for the event. Then we fixed suspensions and steering for the car which were removed earlier as they had a chance of damage during the transportation. Then brake bleeding was done.

Day3:(29/09/2018)

We have started the third day by technical inspection. It was told that the TI would be conducted for two days i.e, on 29th and 30th .We had a few minor repairs for the car which we fixed successfully on that day. However we did not attend TI as we didn't have time on that day.

Day4:(30/09/2018)

On fourth day we have been conducted TI. We were not able to clear the envelope test as our throttle body was obstructing the path of the pipe. This problem arose because of the old air-intake that we used as the new was late and also was not manufactured properly. Hence we were asked to fix that issue and were given time till 3 PM of the next day.

Whole night we were searching for a welding shop and hardly found one. We planned to solve the problem by a bend and tried hard to do it.

Envelope Problem



During Technical Inspection

Day5: (1/10/2018)

We however brought the alternative setup that we made on the previous night. We fixed it to our car and were ready for TI but were late by 30 min. Hence a complete TI never happened to us. This stopped us from going any further in the event.



Changed Portion of Air
Intake Portion to satisfy the

During Technical Inspection

Day 6 & Day 7 (2/10/2018 73/10/2018)

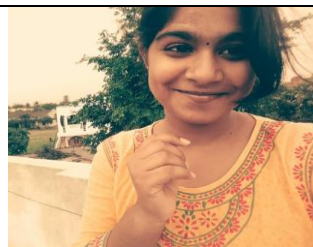
From 56 teams registered for the event, 13 teams have been cleared the technical inspection successfully. Out of 13 teams who cleared the TI, only 9 teams cleared the brake tests. During all the dynamic events one team faced a problem with the engine cranking and they were eliminated from the event. So only 8 teams are selected for the endurance test.

We learnt many things from this event and we will make sure that the team will not repeat the same mistake for the next upcoming event. There are minor changes to be done in suspension mount for the sake of design presentation. Team will perform the best in the upcoming event SAESUPRA_2019.

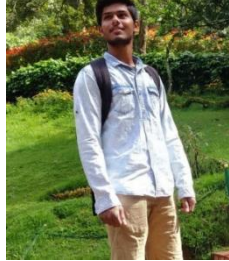


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National Electric Kart Championship (NEKC'19)

National Electric Kart Championship (NEKC) is the event that challenges young minds to compete as teams in designing an Electric category vehicle, there is no other event like this in the country. To develop a vehicle consisting of various subsystems meeting engineering specifications, timelines and above all meeting safety standards is a challenge not for the faint hearted. And then making the rubber hit the road at the premium race track under the gazing eyes of experienced technical experts and other enthusiasts is a thrill not just for the participants but for the mobility community at large.

This event provides opportunity for the engineering students by setting up the trend of using eco- friendly vehicle in India and come up with some innovative designs.

As a one year long challenge across multiple stages comprising of design defense, qualifying virtual, multiple rounds of technical inspections and actual construction of vehicle, this event helps shape future engineers through competitive spirit and encompasses all elements of a vehicle building for aesthetics in design, to the choice of parts through structure design and modeling, to fabrication and testing. This event sets the stage to assess the capability for teamwork, Entrepreneurship, leadership and management skills of student.

NEKC is an Intercollegiate design and fabrication competition for the undergraduate and graduate engineering students where team of 5-25 students have to design and fabricate an KART vehicle battery powered four wheeled electric vehicle.

Total 45 teams were selected based on virtual round held in the month of November 2018.our team secured 17th position in the virtual round. The event was held at State Technical University, Bhopal from 26th March, 2019 to 29th March, 2019. A team of 19 students, along with one faculty advisor had participated in the event.



During vehicle inauguration in the College

We started journey from Kazipet Railway Station at 01:00 AM on 25th March, 2019.

Day-1 (25th March, 2019)

We reached Bhopal Railway Station at 4:30 PM on 25th March, 2019 and reached Hotel around 5PM. We were provided with rooms as soon as we arrived. The transport vehicle has reached at 6PM on 25th March, 2019. Students unloaded the EKART and started assembling the Vehicle.



Team of EKART at event

Day-2 (26th March, 2018)

Registration desk was opened at 09:00 AM on 26th March, 2018. Our team registered in the morning session. Total 30 teams were registered for the event. ID Cards and food coupons were given to students and faculty advisors. Total Actual pits for the EKART were also provided. We moved our vehicle from the temporary pits to our actual pit. Technical Inspection was started at around 3.00pm and our team went for the technical inspection on the first day. Some of the changes were suggested by the judges. The judges had suggested some improvement in the business plan presentation.

After the first technical inspection the students started reworking on the vehicle to comply with all the safety rules. Meanwhile some of our students had presented their Business plan in front of the judges. Students were worked till 7.00 pm and then all the vehicles were kept in a closed room for security.



During Technical Inspection

Day-3 (27th March, 2019)

Students completed the work and the vehicle taken for second round of technical inspection and this time our team has cleared the Technical inspection. Ours team is the first one to complete the Technical inspection. Technical inspectors appreciated the team members for their efforts in fabricating the vehicle In the Evening session students took the EKART for acceleration and brake test. They had cleared the bake test in their second attempt.



During Technical Inspection

Day-4 (28th March, 2019)

In the morning session judges visited our pit for Design and Cost evaluation. Judges suggested some design and marketing tips to the students. After that vehicle has moved to Autocross test and the team has completed auto cross event by afternoon 1.30pm. In the afternoon session the EKART was tested for Manoeuvrability and DRAG test. Technical inspection, static events and Dynamic events were completed by 8.30pm. We reached back to the Hotel by 9:15 PM



During Autocross event

Day-5(29th March, 2019)

The last day of the event started with innovation and design evaluation .our students had incorporated Finger print Starting system and Crash Sensor and Peltier module as innovation in our vehicle. They had demonstrated the working of our innovative ideas to the judges. The final race was started at 1.30pm and our position in the final race was 5th.. Time given for the race is 60 minutes. In the given time our vehicle completed 22 laps. In the evening session valedictory ceremony was held



During Endurance Test

Happy to share you that, our team has secured award for **DRONACHARYA Award** and cash prize of **5000 rupees**. The students were happy to receive the award. Ours is the only team in which students of 3rd year and 2nd year had been participated. In the valedictory they had announced only first two positions of the event and final standings of the teams are yet to be announced.



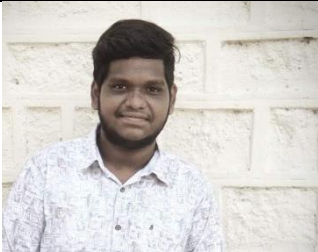
Valedictory function receiving award from Dilpreetsingh -CEO Credible Future & other Dignitaries on the dias

After the valedictory the students had received participation certificates and the kart vehicle was loaded for transportation.

TEAM MEMBERS INFORMATION

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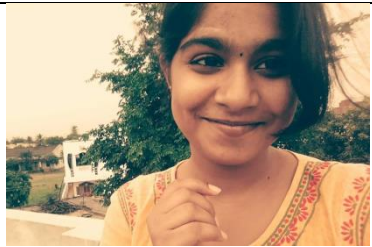
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P. VISHAL	B17ME053	II	9848936073	nanivishal30@gmail.com	MALE	STEERING AND WHEELS	MEMBER	

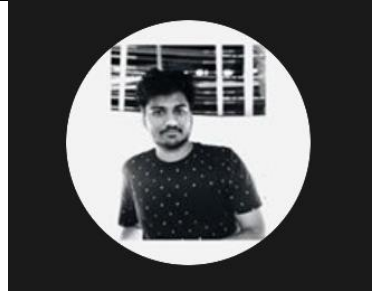
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G. SIDDARTHA REDDY	B17ME075	II	8247600858	siddarthareddyga dipelly@gmail.com	MALE	POWER TRAIN AND DRIVE TRAIN	MEMBER	
MANISH REDDY	B17ME063	II	8712435500	manishreddie.143@gmail.com	MALE	POWER TRAIN AND DRIVE TRAIN	MEMBER	

SAE SUPRA 2019

TEAM MEMBERS INFORMATION

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FFS-FMAE 2019

FFS India Season 3 was initiated with a vision of promoting engineering practical application and implementation among the budding engineering students. FFS India, while providing an efficient competition platform for the students aspiring to design and develop the Formula vehicle, it also strives to impart the basic knowledge, provide assistance from FMAE advisors/alumni to overcome the major problems like project handling, understanding the basic concepts of the competition, financial management faced by the new entrants/inexperienced teams to develop healthy competition among the teams during the final round.

FFS India Season 3 is organized by FMAE at Kari Motor Speedways, Coimbatore from **September 28th – 3rd October, 2019**. As a one year long challenge across multiple stages comprising of design defence, multiple rounds of technical inspections and actual construction of vehicle, this event shape future engineers through competitive spirit and encompasses all elements of a vehicle building for aesthetics in design, to the choice of parts through structure design and modelling, to fabrication and testing.

We are happy to inform that the team **FORCE RACING** of **KITSW**, is selected in 50 **teams** from **INDIA** that are going to participate in the event. Organizing Committee provided more than 10 months to the teams to work on the vehicle and make a strong preparation for the Final Round.

Total 24 teams were registered for the event. A team of 31 students, along with one faculty advisor had participated in the event.

The team consists of total 31 students from Mechanical Engineering Department (25 boys and 6 girl students) participated in the event held at Kari Motor Speedways, Coimbatore from **September 28th – 3rdOctober, 2019**.



During vehicle inauguration in the College

We started journey from Warangal Railway Station at 12.00 noon on 27thSeptember, 2019.

Day-1 (28thSeptember, 2019)

We reached Coimbatore Railway Station at 05:30 AM on 28th September, 2019 and Hotel at around 6:30 AM. The first day of event was held at Kumaraguru College of Technology. The transport vehicle has reached at 09:00 am students unloaded the vehicle and assembled the various parts of the vehicle. Team members registration was done at 12:00pm. Pre-technical inspection of vehicle has completed and judges had suggested some minor changes to the vehicle.

Day-2 (29thSeptember, 2019)

Inaugural session was held at 9:00 am. In morning session design evaluation was done by the judges. After completion of design evaluation the Technical Inspection was started at around 1.00pm and our team went for the technical inspection. Some of the changes were suggested by the judges. After the first technical inspection the students started reworking on the vehicle to comply with all the safety rules. Students worked till 7.00 pm and then all the vehicles were kept in a closed room for security.



During inaugural session

Day-3 (30thSeptember, 2019)

We have given our Sales presentation at 10.00 am. Later the cost evaluation was started at 11:30am. Students completed the work and the vehicle taken for second round of technical inspection and this time our team has cleared the Technical inspection. Technical inspectors appreciated the team members for their efforts in fabricating the vehicle. Only 9 teams are qualified for dynamic events in which we are one among them. We have completed static events in Kumaraguru college of engineering and shifted our vehicle at 7:00pm to Kari Motor Speedway to proceed for dynamic events.



During sales presentation and cost evaluation



During technical inspection

Day-4(1st October, 2019)

Students started their journey with high enthusiasm towards Kari Motor Speed Way at 9:00am in bus for dynamic events. Slots were provided for each team. Students have arranged tools in the respective slot then team photography session was conducted by FMAE, at 12:00 pm. Next the vehicle is lined for weight test and tilt test. Among 9 teams our vehicle with 234 kg stood second place in weight test.

Day-5 (2nd October, 2019)

The day started with brake test. Vehicle is lined up for brake test. Students had put their every possible effort to clear the brake test. But unfortunately all the four wheels of the vehicle didn't lock at the same time. So we are unable to proceed further dynamic events. At 7:00pm students securely packed their tools and shifted their vehicle to security room with heavy hearts but never lost their hopes.



During brake test

DAY-6 (3rd October,2019)

Students visited other teams and had a technical conversation,shared their ideas. Later at 2:00pm team members had a discussion about further development of team and vehicle. At 5:00pm the prize distribution had started. Happy to share you that, our team has secured award for **2nd runner up in sales presentation**. The students were happy to receive the award. In the valedictory they had announced only first two positions of the event and final standings of the teams were announced later.



**Valedictory function receiving award from Aditya Rao CEO-FMAE and
&Dr.AwanishPrathap Singh& other dignitaries on the dais.**

After the valedictory the students had received participation certificates and the kart vehicle was loaded for transportation. At 11.30 pm we had vacated the hotels and came to Coimbatore railway station and we had our dinner at the station itself. Our train was scheduled at 1.30am on 24th march.



FFS INDIA 2019 - OVERALL RESULT



RANK	CAR NO	TEAM	COLLEGE / UNIVERSITY	DESIGN PRESENTATION	COST PRESENTATION	SALES PRESENTATION	ACCELERATION	SKID PAD	AUTO CROSS	ENDURANCE	FUEL ECONOMY	TOTAL SCORE
1	06	TEAM SAKTHI RACING	KUMARAGURU COLLEGE OF TECHNOLOGY	77	43	41	27.94	71.5	95.5	285.166	100.00	741.106
2	51	Formula Team Pegasus	PES'S MODERN COLLEGE OF ENGINEERING, PUNE	64	76	39	38.05	15.52	4.5	297.295	0.00	534.37
3	45	ELEGANT MOTORSPORTS 2.0	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	59	41	55	71.5	21.23	40.62	DNF	DNF	288.35
4	26	PRAHAAR RACING	SARASWATI COLLEGE OF ENGINEERING	88	79	32	-	-	-	-	-	199.00
5	20	FORCE RACING	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE	67	59	52	-	-	-	-	-	178.00
6	11	INFERNO RACING	KGG COLLEGE OF TECHNOLOGY	76	60.5	40	-	-	-	-	-	176.50
7	31	VEERRACERSS	VEER SURENDRA SAI INSTITUTE OF TECHNOLOGY, BURLA	73	65	33	-	-	-	-	-	171.00
8	10	EQUESTER	SAVEETHA ENGINEERING COLLEGE	21	31	23	31.94	3.29	17.36	DNF	DNF	127.59
9	47	VARUNASTRA	SRI SAIRAM COLLEGE OF ENGINEERING	32	39.5	51	-	-	-	-	-	122.50
10	14	AMRITA RACING	AMRITA SCHOOL OF ENGINEERING	46	28.5	44	-	-	-	-	-	118.50
11	49	BAAGH	KNOWLEDGE INSTITUTE OF TECHNOLOGY	41	38	24	-	-	-	-	-	103.00
12	25	TEAM XELARATORS	PARALA MAHARAJA ENGINEERING COLLEGE	-	29.5	54	-	-	-	-	-	83.50
13	01	STORM-BREAKERS	UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY	41	-	41	-	-	-	-	-	82.00
14	34	TURBOTHROTTLER	SONA COLLEGE OF TECHNOLOGY	17	9	41	-	-	-	-	-	67.00
15	44	METAL HEADS	MAR BASELIOS INSTITUTE OF TECHNOLOGY AND SCIENCE, NELLIMATTOM	22	22	22	-	-	-	-	-	66.00
16	29	TEAM PHARAOH RACERS	PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY AND RESEARCH	14	6	18	-	-	-	-	-	38.00
17	22	STEADFASTERS	MEPCO SCHLENK ENGINEERING COLLEGE	-	-	35	-	-	-	-	-	35.00
-	05	ZENITH MOTORSPORT	COLLEGE OF ENGINEERING TRIVANDRUM	-	-	-	-	-	-	-	-	0.00
-	15	CYGNUS RACING	UNIVERSITY OF ENGINEERING & MANAGEMENT KOLKATA	-	-	-	-	-	-	-	-	0.00
-	24	FORMULA MITE RACING	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING	-	-	-	-	-	-	-	-	0.00

TEAM FORCE RACING PLACED OVERALL 5th POSITION IN FFS SEASON

TEAM MEMBERS INFORMATION

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FORMULA BHARATH 2020

Students from Force Racing, SAE club have been participating in various formula student events. Students hardwork and determination made them to clear rule book test. Event was scheduled from January 22 to January 26 at Coimbatore, Karimotor Speedway. A team of 25 members under the guidance of faculty coordinators Karunakar, Kishore started there journey.

DAY 1:

Students and faculty advisor boarded Shaberi express on 20-1-2020 at Secunderabad railway station, 11.15 am. They reached Coimbatore Junction on 21-1-2020 at 10 am. They checked-in into Lakeview hotel. Students went to Kari motor speedway, attended event driefing session and performed the vehicle registration, arranged there vehicle and tools in their respective pit from the truck.

DAY 2(22-01-2020):

Students reached venue at 9 am done the registration, obtained ID cards and bands. They arranged tools in their respective position and organized there pit. Interacted with other teams, attended pre inspection and rectified their mistakes. Captain attended the meeting organized by formula bharath and represented their team.

DAY 3(23-01-2020):

Students reached venue early to attend statics, arranged there tools and necessary documents. They had cost report presentation from 10 am to 10.50 am in the pit .Prepared a business model of racing industry and escorted to sales presentation from 2 pm to 2.30 pm.



COST REPORT PRESENTATAION IN PIT

Day 4(24-01-2020):

Students along with vehicle lined up for Engineering design report along documents at 10 am. Interacted with judges, gained knowledge and experience. Judges gave feedback that helped to improve technical skills. We had a group photo by formula bharat organizers. Vehicle lined up for technical inspection, small corrections were written but due to constraint of time, we could clear next day.



Day5(25-01-2020):

Vehicle cleared technical inspection and technical scrutinsers signed on Technical inspection sheet. Weighed our vehicle and approached to tilt test. The vehicle tyre contact and fluid leakages are tested at 60 degrees inclination. Our team cleared tilt test in second attempt. Next the vehicle is advanced for noise test but they didn't have enough time to clear noise test.



TILT TEST

Day 6(26-01-2020):

Students reached Karimotor Speedway interacted with other team members, shared their knowledge. Packed tools and vehicle into the truck. Interacted with automobile experts Claude Rouelle, Pat Clarke. Attended the final ceremony of formula bharat.

Day 7(27-01-2020):

Students packed their luggage, checked-out of hotel. Boarded Korba Express at Coimbatore Junction at 1.35am and reached Warangal on 28-01-2020 at 9 am.

We are elated to inform that our **overall rank is 28th among participated 60 teams** from overall India.

FORMULA BHARAT 2020- COMBUSTION - OVERALL RESULTS

Car #	Team Name	College Name	Status	Penalties	0-150	0-75	0-100	0-75	0-100	0-325	0-100	0-1000	RANK	
					Design	Business	Cost	Acc.	Skidpad	Autok	Endurance	Efficiency	TOTAL	
09	Rafar Formula Racing	Indian Institute of Technology Madras		0	150	73.00	95.00	57.06	53.70	76.91	255.82	100.00	863	1
17	Veloce Racing	Vishwakarma Institute of Technology		0	130	47.71	90.71	62.70	40.97	68.82	286.37	39.30	767	2
01	GTU Motorsports	Gujarat Technological University		10	100	43.47	57.61	75.00	DNF	68.63	125.00	85.26	745	3
05	STES Stallion Motorsport	Smt. Kashibai Navale College of Engineering		0	71	61.53	99.00	69.49	75.00	95.16	86.30	13.46	571	4
11	Team Haya Racing	PES University		0	45	72.00	97.00	DNF	DNF	69.53	185.20	0.00	469	5
10	SPCE Racing	Sardar Patel College of Engineering, Mumbai		0	120	60.05	76.00	54.18	17.39	4.50	DNF	DNF	332	6
03	DJS Racing	Dwarkadas J. Sanghvi College of Engineering		0	74	69.36	100.00	DNF	71.39	4.50	DNF	DNF	319	7
02	Formula Manipal	Manipal Academy of Higher Education		0	59	69.08	85.81	DNF	DNF	100.00	DNF	DNF	314	8
07	Camber Racing	SRM Institute of Science and Technology		0	140	71.00	84.58	DNF	DNF	4.50	DNF	DNF	300	9
20	Team KART	Indian Institute of Technology Kharagpur		0	99	74.00	68.65	32.45	10.51	4.50	DNF	DNF	289	10
13	Illuminati Racers	Lovely Professional University		5	72	33.43	51.29	68.05	39.52	DNF	DNF	DNF	259	11
08	Acceleracers	MIT-World Peace University		0	91	70.00	89.48	DNF	DNF	DNF	DNF	DNF	250	12
29	Velocita Racing	Ramaiah Institute of Technology		0	63	58.30	96.00	DNF	DNF	DNF	DNF	DNF	217	13
12	Ashwa Racing	R V College of Engineering		0	44	73.00	87.03	DNF	DNF	DNF	DNF	DNF	204	14
04	Shaurya Racing	VIT Chennai		0	31	48.82	91.94	DNF	26.72	DNF	DNF	DNF	198	15
33	Team Maverick	Pune Vidyarthi Griha's College of Engineering and Technology		0	75	33.80	34.32	DNF	DNF	40.30	DNF	DNF	183	16
49	ZHCET Formula Racing	Aliganj Muslim University		10	58	69.54	36.77	DNF	DNF	DNF	25.00	DNF	179	17
18	Wrench Weldiers Racing	Symbiosis Institute of Technology		10	72	60.14	51.48	DNF	DNF	DNF	DNF	DNF	174	18
34	Team RIGIT Racing	MCT's Rajiv Gandhi Institute of Technology		0	49	47.62	76.00	DNF	DNF	DNF	DNF	DNF	173	19
59	Force ikshvaku Racing	The National Institute of Engineering		0	64	52.22	51.48	DNF	DNF	DNF	DNF	DNF	168	20
16	Amrita Racing	Amrita School of Engineering, Coimbatore		0	39	55.26	64.97	DNF	DNF	DNF	DNF	DNF	159	21
50	Vishwaracers	Vishwakarma Institute of Information Technology		0	66	49.76	33.10	DNF	3.50	4.50	DNF	DNF	157	22
30	STES Racing	Sinhgad College of Engineering		10	92	43.75	30.65	DNF	DNF	DNF	DNF	DNF	156	23
55	Tornado Motorsports	RMD Sinhgad School of Engineering		10	30	43.47	72.32	DNF	DNF	DNF	DNF	DNF	136	24
69	Team Sakthi Racing	Kumaraguru College of Technology		70	10	25.79	39.23	55.61	34.34	36.13	DNF	DNF	131	26
25	CRCE Formula Racing	Fr. Conceicao Rodrigues College of Engineering		0	29	46.05	56.39	DNF	DNF	DNF	DNF	DNF	131	25
65	Team MHI-08 Racing	Bajendra Mane College of Engineering and Technology		30	67	40.34	49.03	DNF	DNF	DNF	DNF	DNF	126	27
72	Force Racing	Kakatiya Institute of Technology and Science, Warangal		10	22	54.38	57.61	DNF	DNF	DNF	DNF	DNF	124	28
32	Traction Racing	SR Venkateswara College of Engineering		13	40	46.79	45.35	DNF	DNF	DNF	DNF	DNF	119	29
24	Aious Formula Student	Indira Gandhi Delhi Technical University for Women		0	20	34.83	61.29	DNF	DNF	DNF	DNF	DNF	115	30
54	Hawks Racing	SRM Institute Of Science And Technology - Ramapuram Campus		0	30	31.13	20.65	DNF	DNF	DNF	DNF	DNF	82	31
37	Hyperion Racing Team	Pillai College Of Engineering		10	62	25.79	0	DNF	DNF	DNF	DNF	DNF	78	32
48	Hermes Racing	Kalinga Institute of Industrial Technology		32	60	19.99	26.97	DNF	DNF	DNF	DNF	DNF	75	33
42	Blitz Racing	Vasavi College of Engineering		35	17	29.75	49.03	DNF	DNF	DNF	DNF	DNF	61	34
58	Formula Ashwariders	St. Vincent Pallotti College of Engineering and Technology		10	15	29.01	23.29	DNF	DNF	DNF	DNF	DNF	57	35
28	Kreinto Racing	K L (Deemed to be University)		0	0	18.83	38.00	DNF	DNF	DNF	DNF	DNF	57	36
39	Automantra Racing	Galgotias University		40	8	32.51	53.94	DNF	DNF	DNF	DNF	DNF	54	37
46	DIT Motoracing	DIT University		70	13	28.55	66.19	DNF	DNF	DNF	DNF	DNF	38	38
26	Phoenix Racing SVNIT	Sardar Vallabhbhai National Institute of Technology		70	15	33.80	46.58	DNF	DNF	DNF	DNF	DNF	25	39
52	Team Gjaswat	Chandubhai S Patel Institute of Technology		100	74	25.14	18.39	DNF	DNF	DNF	DNF	DNF	18	40
68	XLRB Racing	Thangal Kunju Musaliar College of Engineering		78	24	27.20	44.13	DNF	DNF	DNF	DNF	DNF	17	41
38	Brahmos Amritapuri	Amrita School Of Engineering, Amritapuri		78	0	9.05	0	DNF	DNF	DNF	DNF	DNF	0	42
15	Evolution	Indian Institute of Technology Guwahati		31	0	30.59	0	DNF	DNF	DNF	DNF	DNF	0	42
27	Formula Geca	Government College of Engineering, Aurangabad		195	34	35.64	68.65	DNF	DNF	DNF	DNF	DNF	0	42
35	NITKRacing	National Institute of Technology Karnataka, Surathkal		228	29	61.25	58.84	DNF	DNF	DNF	DNF	DNF	0	42
41	Zenith Motorsport	College of Engineering Trivandrum		118	0	16.58	0	DNF	DNF	DNF	DNF	DNF	0	42
44	Team Corsa	Chandigarh College Of Engineering And Technology		78	12	21.29	33.10	DNF	DNF	DNF	DNF	DNF	0	42
56	Infinity Motorsports	Amity School of Engineering and Technology		283	0	19.50	0	DNF	DNF	DNF	DNF	DNF	0	42
60	Formula Sahyadri	Sahyadri College Of Engineering And Management		30	1	21.18	0	DNF	DNF	DNF	DNF	DNF	0	42
82	The Vayuputras	Indus Institute of Technology & Engineering		228	24	14.88	0	DNF	DNF	DNF	DNF	DNF	0	42
67	Team Super Ignite	Guru Nanak Institute of Technology		49	9	31.72	0	DNF	DNF	DNF	DNF	DNF	0	42
06	Pegasus Racing	PSG College of Technology	WITHDRAWN	0	0	0.00	0	DNF	DNF	DNF	DNF	DNF	0	
14	Team Srijan	Birla Institute of Technology, Mesra	WITHDRAWN	0	-	-	-	DNF	DNF	DNF	DNF	DNF	0	
21	Pravega Racing	VIT Vellore	WITHDRAWN	0	-	-	-	DNF	DNF	DNF	DNF	DNF	0	
31	NH Motorsports	New Horizon Institute of Technology And Management	WITHDRAWN	0	-	-	-	DNF	DNF	DNF	DNF	DNF	0	
45	Kalam	Maharaja Agrasen Institute Of Technology	WITHDRAWN	10	-	-	-	DNF	DNF	DNF	DNF	DNF	0	
53	Team Lakshya	Chitkara University	WITHDRAWN	0	-	-	-	DNF	DNF	DNF	DNF	DNF	0	
98	MPSTME Phoenix Racing	Mukesh Patel School Of Technology Management & Engineering	WITHDRAWN	35	-	-	-	DNF	DNF	DNF	DNF	DNF	0	

Authorised by: Cathy Disouza

Posted at: 26 Jan 2020

OVERALL RESULT

TEAM MEMBERS INFORMATION

NAME	ROLL NUMBER	YEAR	CONTACT DETAILS	MAIL ID	GENDER	SUBSYSTEM	ROLE IN TEAM	PHOTO		
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National Electric Kart Championship (NEKC'20)

National Electric Kart Championship (NEKC) is the event that challenges young minds to compete as teams in designing an Electric category vehicle, there is no other event like this in the country. To develop a vehicle consisting of various subsystems meeting engineering specifications, timelines and above all meeting safety standards is a challenge not for the faint hearted. And then making the rubber hit the road at the premium race track under the gazing eyes of experienced technical experts and other enthusiasts is a thrill not just for the participants but for the mobility community at large.

This event provides opportunity for the engineering students by setting up the trend of using eco- friendly vehicle in India and come up with some innovative designs.

As a one year long challenge across multiple stages comprising of design defense, qualifying virtual, multiple rounds of technical inspections and actual construction of vehicle, this event helps shape future engineers through competitive spirit and encompasses all elements of a vehicle building for aesthetics in design, to the choice of parts through structure design and modeling, to fabrication and testing. This event sets the stage to assess the capability for teamwork, Entrepreneurship, leadership and management skills of student.

NEKC is an Intercollegiate design and fabrication competition for the undergraduate and graduate engineering students where team of 18 students have to design and fabricate an KART vehicle battery powered four wheeled electric vehicle.

Total 45 teams were selected. Our team secured 17th position in the virtual round. The event was held at National institute of design, Bhopal from 2nd March, 2020 to 5th March, 2020. A team of 18 students, along with one faculty advisor had participated in the event.

We started journey from Warangal Railway Station at 6:00PM on 1th March, 2020.

Day-1 (2nd March, 2020)

We reached Bhopal Railway Station at 6:00 AM on 1st March, 2020 and reached Hotel around 8AM. We were provided with rooms as soon as we arrived. The transport vehicle has reached at 9 AM on 1st March, 2020. Students unloaded the EKART and started assembling the Vehicle.



Team of EKART at event

Day-2(3rd March, 2020)

Registration desk was opened at 09:00 AM on 2nd March, 2020. Our team registered in the morning session. Total 30 teams were registered for the event. ID Cards and food coupons were given to students and faculty advisors. Total Actual pits for the EKART were also provided. We moved our vehicle from the temporary pits to our actual pit. Technical Inspection was started at around 10:00AM and our team went for the technical inspection on the first day. Some of the changes were suggested by the judges. The judges had suggested some improvement in the business plan presentation.



During Technical Inspection

After the first technical inspection the students started reworking on the vehicle to comply with all the safety rules. Meanwhile some of our students had presented their Business plan in front of the judges. Students worked till 6:00 pm and then all the vehicles were kept in a closed room for security.

Day-3 (4th March 2020)

Students completed the work and the vehicle taken for second round of technical inspection and this time our team has cleared the Technical inspection. Our team is the second one to complete the Technical inspection. Technical inspectors appreciated the team members for their efforts in fabricating the vehicle. In the Evening session students took the EKART for acceleration and brake test. They had cleared the brake test in their first attempt.

Day-4 (5th March 2020)

In the morning session judges visited our pit for Design and Cost evaluation. Judges suggested some design and marketing tips to the students. After that vehicle has moved to Autocross test and the team has completed auto cross event by afternoon 1.30pm. In the afternoon session the EKART was tested for Maneuverability and DRAG test. Technical inspection, static events and Dynamic events were completed by 8.30pm. We reached back to the Hotel by 9:15 PM



During Endurance Event

Day-5(6thMarch 2020)

The last day of the event started with innovation and design evaluation. our students had incorporated Finger print Starting system and Crash Sensor and Peltier module as innovation in our vehicle. They had demonstrated the working of our innovative ideas to the judges. The final race was started at 1.30pm and our position in the final race was 5th. Time given for the race is 70 minutes. In the given time our vehicle completed 23 laps. In the evening session valedictory ceremony was held.



During Endurance Test

Happy to share you that, our team has secured award for **LIGHTEST VEHICLE AWARD** and cash prize of **5000 rupees**. The students were happy to receive the award. Ours is the only team in which students of 3rd year and 2nd year had been participated. In the valedictory they had announced only first two positions of the event and final standings of the teams are yet to be announced.



After the valedictory the students had received participation certificates and the kart vehicle was loaded for transportation.

Day-6 (6th March, 2020)

We were started from Bhopal to Warangal by AP Express. We reached Warangal Railway Station at 5:00am 6th March 2020.

OVERALL RESULT

Rank	Team Name	Marks	Rank	Team Name	Marks
01	B-Ron Motorsport	1214.06	16	Stormtroopers	604.47
02	Vivekanand Falconz	1149.95	17	The Schilders	573.66
03	Pro-Karters	1138.62	18	Tuff Enough	539.90
04	Drifters	1107.12	19	Velociraptor Racing	525.54
05	S-Falcons	1035.01	20	Jager	518.18
06	Volante	989.41	21	Electro Infinity	513.77
07	Optimech Racing	922.11	22	Speed Demons	452.71
08	Kryptonians	896.66	23	Tulite 3.0	218.86
09	Zayara	871.71	24	Adler squad	99.08
10	Formura	859.32	---	Raptors	---
11	Force Racing	856.53	---	Quasar's Hypernova	---
12	Drag 0	772.46	---	Engines and Demons	---
13	Electrimo	734.28	---	Brainiacs	---
14	Octon Racing	639.39	---	Matadors	---
15	Tyrants	617.63	---	Infiniti	---

TEAM MEMBERS INFORMATION

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