



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING  
AND TECHNOLOGY  
MECHANICAL ENGINEERING DEPARTMENT**

**Student Chapter / SAE**

**About Us:** The student body of Gokaraju Rangaraju Institute of Engineering and Technology is encouraged to associate themselves with this world-renowned organization through the SAE local chapter.

**Aim:** To advance mobility knowledge and solutions for the benefit of humanity. SAEINDIA GRIET COLLEGIATE CLUB is the leader in connecting and educating mobility engineers to enable safe, clean, and accessible mobility solutions.

**Objectives:**

- To make the students involve in the practical experience of the projects.
- To showcase their talent in static and dynamic events of various competitions and to have a great exposure all over the nation.
- To inculcate a sense of teamwork and responsibility by encouraging them to organize events.
- To make them acquainted with various useful technologies by conducting workshops.
- To enhance the importance of communication skills and thereby encouraging the members in it by conducting events and participating in the competitions.



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MECHANICAL ENGINEERING DEPARTMENT**

**2020**



Mr. K. Sunil Kumar Reddy  
SAE Faculty Coordinator

**Core Committee Members 2019-2020**



Kesari Neeraja  
Chair Person



Nunna Dhruthi  
Treasury



Thammu Rakesh  
Publicity Chair



Mallikanti Mahesh  
Membership Chair



Ahmedullah Farooqu  
Secretary

List of SAE Students 2019-2020

S.No	First Name	Last Name
1	SaiKiranChowdary	Kuchipudi
2	Vamshi	M
3	Sai Ganesh	Sriram
4	Swetha	M
5	MdMustabeen Khan	Khan
6	Nikhil Chand Gupta	Madamshetty
7	Mohammed A	Farooqui
8	Rithesh Kumar	Boda
9	Nutan Kumar	Uppala
10	Rohithdatta	Yerramsetty
11	Gitanjali	Veernapati
12	Sai Krishna	Turangi
13	Vineeth Raj	Tappa
14	MdMaibu Pasha	Pasha
15	Deepika	Balla
16	Hari Krishna	Siram
17	Chinnu	Arulmani
18	Dhruthi	Nunna
19	Neeraja	kesari
20	Sarala	Beema
21	Lakshmi Deepak	Tadepalli
22	Chilukuri Naga Vamsi	Chilukuri
23	Anirudhchowdary	Tummala
24	Vamshi	M
25	Mohammed Nawaz	Khan
26	Vamshi Krishna	Sundalam
27	RakeshRoshan	Thammu
28	SaiSanthosh	Kotha
29	UdaySiddarth	Kannoju
30	Gayathri	Edara
31	Sundeepkumar	Baja
32	Shreshta	Alla
33	SaiSankalp	V
34	Anvitha	Goli
35	Harichandana Reddy	Duvvanthula
36	Sandeep Kumar Rao	Surabi
37	Sonika	Choudary
38	Shashir	Chintha
39	Siva Kumar	Sundara
40	Akhila	Nadimpalli
41	Shiva Ganesh	Balde
42	Abhishek Reddy	Athelli
43	Chirudep	Abhimalla
44	Asif	Shaik
45	Akhil Reddy	Vutla
46	Ajay Kumar	Sabbani
47	Geethasree	Pisini
48	Mansi	Jagtap
49	Rahul	Peraka
50	Siddhardha	Duggineni
51	MD.Taj	Mohammad



**REPORT**  
**ON**  
**BAJA SAEINDIA 2020**

**List Of Members**

S.no	Name	Roll number	Role
1	S. Sai Ganesh	17241A03A9	Team Captain
2	M. Nikhil Chand Kumar	17241A0328	Vice Captain
3	Md. Mustabeen Khan	17241A0390	Chassis Lead
4	U. Nutan Kumar	17241A0356	Braking Lead And Driver
5	Y.Rohith Datta	17241A0360	Transmission Lead And Driver
6	Maibu Pasha	17241A0332	Transmission Lead
7	B. Rithesh Kumar	17241A0344	Suspension
8	T. Sai Krishna	17241A0352	Manufacturing
9	Ahmedullah Farooqui	17241A0333	Braking
10	Sai Kiran Choudary	17241A0322	Braking
11	M. Swetha	17241A0326	Suspension
12	V. Gitanjali	17241A0357	Steering
13	T. Vineeth Raj	17241A0354	Manufacturing
14	Vamshi Chinna	17241A0387	Manufacturing
15	E.Gayatri	18241A0378	Chassis
16	Sonika Choudary	18241A0373	Transmission
17	Hari Chandana	18241A0377	Braking
18	S. Vamshi Krishna	18241A0348	Chassis
19	Santhosh Rao	18241A0332	Chassis
20	Sankalp	18241A0356	Suspension
21	Uday Siddarth	18241A0390	Braking

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## **SAEINDIA BAJA 2020**

SAEINDIA BAJA 2020 is a National level competition event, in which the teams are to present their buggy to a society of highly experienced judges who hail from eminent companies followed by Static events, Dynamic events and an Endurance Run where we get to showcase our talent to different experts and sponsors. It is a 7- day event took place from 22<sup>nd</sup> January, 2020 to 28<sup>th</sup> January, 2020 in NATRAX, Pithampur, Madhya Pradesh. Around 120 teams from m-Baja and 50 teams from e-Baja hailed from all over India for the event, after qualifying Virtual Round which was conducted by them in the month of July.

### **Event Details**

BAJA SAEINDIA 2020.

22<sup>nd</sup> to 28<sup>th</sup> of January 2020.

NATRAX, Pithampur, Madhya Pradesh.

### **At The Event**

A team of 21 people visited the event. We have been informed about the schedule of all the events which would take place in the event and planned them accordingly as follows:-

#### ➤ **Day 0:- Team Registration and Technical Evaluation.**

All the teams who have qualified Virtuals Baja are eligible to register here in the event site. We have registered our team under our college ID by 11:45 am. We have started unloading our equipment and vehicle was ready for Technical Evaluation by 2:30 pm. In the Technical Evaluation Bay, we have been pointed about equipment confirmation issues and were postponed to the next day.

#### ➤ **Day 1 :- Technical Evaluation, Engine Check and Static Events**

As the Static events are divided into two categories:-

1. **Sales Event:** - We were given a slot to the event bay at 12:00 pm and were asked to present a start-up on an All-Terrain Vehicle to a group of investors and sales managers from different companies. We cleared the event by 12:50 pm and the investors were really interested with the plan we proposed.
2. **Cost Event:-** In this event, we have to show the judges the Market survey made and implemented on the vehicle to reduce the cost of an ATV as low as possible so that there are no compromising issue when it comes to performance. We have attended the cost evaluation pit by 2:15 pm, with the vehicle and were asked different many questions regarding our market survey and the proofs regarding our vehicle's manufacturing activities. We have ended the session by 3:00 pm and the judges were satisfied with the analysis we made.

We have qualified Engine check by 4:20 pm and Technical Evaluation was delayed to the next day, as the equipment issue was not yet cleared.

#### ➤ **Day 2 :- Technical Evaluation and Design Presentation**

We have cleared Technical Evaluation by 10:30 am and attended the Design Presentation at 11:00 am. We have explained all the technical and design considerations and were asked to provide a justification to each and every consideration we made. We have cleared the event by 12:30 pm. After that we went for weight check and our vehicles weight was 169.7 KG

#### ➤ **Day 3 :- Brake test**

We were issued Brake test tokens for two attempts. For the first attempt, we couldn't clear out test as our Front-Right Tyre was rotating after applying brakes. We performed different iterations by tuning shock absorbers, different Tyre pressures and patterns, Brake pressures and biasing. We did not give a second attempt on that day, as we have spent most of our time in practice sessions.



#### ➤ Day 4 :- Brake Test and Dynamic Events

We cleared the brake test by 10:30 am. We were ready for all the dynamic events by 11:00 am. We have participated in different dynamic events as follows:-

1. **Acceleration:** - We tuned all suspension components in such a way as we attain highest acceleration. We completed the test by 11:50 am and achieved 120ft in 4.9sec making us stand in 26<sup>th</sup> position.
2. **Suspension and Traction:** - We were ready for this track by 1:20 pm. It was the toughest track in the whole event. Our vehicle completed the track 4min 51sec which included two roll-over's and was given DNF for the test. We have completed the test by 1:45 pm.
3. **Maneuverability:** - We have attempted the test at 2:00 pm. We couldn't complete the test in two attempts as all the 4 tires went out of the given path
4. for the first and touched the boundaries for 3 times which gave us DNF for the test. We have completed the test by 4:50 pm.
5. **Rock Crawl:** - We have attempted the test at 5:10pm and performed two. The distance we covered in the path are 9m and 10.5m. we completed the test by 5:30 pm.

The Vehicle transponder and driver registrations were completed. The Endurance tracks are shown to the team members and the drivers, and also announced the main rules of the endurance race.

#### ➤ Day 5 :- Endurance Run

Endurance Run is the vigorous test to any ATV, where the true ability of vehicle stands out. It is 4-hours continuous run through the hardest terrain. For this, the vehicle was assembled in the grid by 8:30 am. There was a Flag hoisting ceremony at 9:30 am, as it was on Republic day. The race began at 11:10 am. Our vehicle had a breakdown after 3 laps and was delayed for 28 min in the whole lap time. Our vehicle has covered 15 laps and has completed the race by achieving 39<sup>st</sup> position. Then we have a Valedictory event at the last and the prizes were distributed to the winners.





### Drawbacks

- Need to increase ground Clearance
- Weight Reduction to attain high speed in less period of time
- Driver training.

### Conclusion

The event has given us a vast knowledge regarding Industrial approach and helps us out to stand out in National Competition, giving us scope to evolve and learn different designs and methodologies in different systems. We are proud to be a part of this competition and can assure that we can perform better than the previous one.



### Transport And Accommodation Details

- We started on 19<sup>th</sup> January, 07:00 pm from Hyderabad
- We reached Indore on 21<sup>th</sup> January, 3:00 pm
- We stayed in OYO Hotel Indraprasth from 21<sup>th</sup> January to 29<sup>th</sup> January
- We returned on 29<sup>th</sup> January and reached Hyderabad on 30<sup>th</sup> January, 12:30PM.



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**2019**

**REPORT ON**

**VIRTUAL BAJA SAEINDIA 2019**

**List Of Members**

S.No	Name	Roll Number	Role
1	S.Sai Ganesh	17241a03a9	Captain
2	M.Nikhil Chand Kumar	17241a0328	Vice Captain
3	Md.Mustabeen Khan	17241a0390	Chassis Lead
4	U.Nutan Kumar	17241a0356	Braking Lead
5	Y.Rohith Datta	17241a0360	Transmission Lead
6	Mahboob Pasha	17241a0332	Transmission



**Virtual Baja**

Virtual BAJA is a national level presentation event, in which the teams are to present their design of the vehicle to a panel of well experienced judges from eminent companies followed by test on basic Mechanics and Automobile Engineering. It took place in the month of July, in



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Chitkara University, Chandigarh Around 350 teams all over India registered for the event. Of which, 120 teams will be selected for the next level of the competition.

### **Event Details**

VIRTUAL BAJA SAEINDIA 2019.

11<sup>th</sup> to 13<sup>th</sup> of July 2019.

ChitkaraUniversity, Rajpura campus, Chandigarh

### **At The Event**

A team of 6 people visited the event.

- We registered for the event on 11<sup>th</sup> July.
- We attended examination on 12<sup>th</sup> July.
- We presented out ppt as scheduled on 13<sup>th</sup> July.

### **At The Exam**

The exam is scheduled at 12:00PM. We reached examination hall by time and registered for it .Because of 10mins delay the exam completed by 12:40 and we started preparing for presentation.

### **At The Presentation**

Our presentation was started at 2:30PM on 13<sup>th</sup> of July, due to 1 hour delay. In, the first 20mins we completed our Presentation and were ready for Viva session. The main queries in Viva session were about CAE, SUSPENSION, STEERING, DFMEA. We answered all the questions and completed presentation round.

### **Transport And Accommodation Details**

- We started on 9<sup>th</sup> July, 10:30PM from Hyderabad
- We reached Chandigarh on 11<sup>th</sup> July, 1:00PM
- We stayed in New life hotel from 11<sup>th</sup> July to 13<sup>th</sup> July
- We returned on 14<sup>th</sup> July and reached Hyderabad on 16<sup>th</sup> July 8:00PM.

## **REPORT ON SAE INDIA AERO DESIGN CHALLENGE 2019**

**TEAM No: ADC201901**

### **List Of Members**

S.No.	Name	ID Number	Phone number	Designation
1.	Lakshmi Deepak	16241A0397	9490904106	Captain
2.	Kesari Neeraja	16241A0333	8639821552	Treasury
3.	T. Vineeth Raj	17241A0354	7799111829	Wing
4.	Hari Krishna	17241A0349	8106656308	Wing
5.	A. Chinnu	17241A0361	7032738329	Tail
6.	N. Dhruthi	17241A0396	8978811299	Fuselage

### **Event Details**

**SAE AERO DESIGN CHALLENGE EVENT 2019**

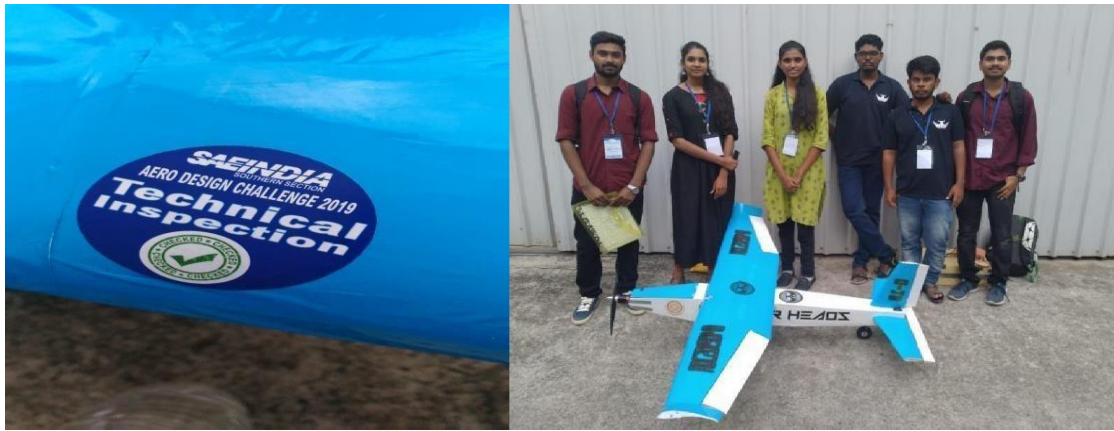
19<sup>th</sup> to 21<sup>st</sup> July, 2019

SRM University, Kattankulathur Campus, Chennai.

### **At The Event**

#### **➤ Day 1:-19-07-2019**

We have reached the venue at around 8:00 a.m. and the first thing we did was to register ourselves for the event. We were handed over the papers that described the schedule for the entire three days of the event and slots for Technical presentation, Technical inspection and flight rounds. Our technical presentation was scheduled on the afternoon of the same day, i.e. 1:30 p.m. and Technical inspection was scheduled in the evening, i.e. 5:00 p.m. Our flight round has been scheduled to 10:00 a.m. on the second day. The inauguration ceremony has been started at 11 in the morning. As soon as the inauguration ceremony has been closed we have rushed to the presentation hall by 1:00 p.m. We have completed our Technical presentation by 3:00 p.m. Then we started to arrange our flight and cleared our Technical inspection without any problem by 5:30 p.m. Then we headed back to our hotel. We were not allowed to take pictures during technical presentation and inspection.



➤ **Day2:-20-07-2019**

The regular class aircrafts were flown in Green Pearls Electronics ground which is 2 kilometres away from S.R.M College. We have reached the S.R.M main gate by 8:00 a.m. We were provided special busses by the institute to reach the flying ground. We have reached the ground by 8:30 a.m. and started to assemble our flight without any further delay as we were in short of time. Since, there was a delay in starting off Flight round our flight was flown at 3:00p.m. in afternoon. They have checked CG and the payload inserted before flying. Our flight has taken off successfully and was in cruise for 2 rounds and landed very safely. There was little deformation in the landing gear only. Other than that our flight did not undergo any damage. The overall performance of the aircraft was given and was very stable. After the flight round we returned back to the hotel.





➤ **Day 3:- 21-07-2019**

Few teams had their flight round scheduled on the morning session of the final day. All the teams have completed their flight round by 1:30 p.m. The closing ceremony was scheduled at 3:00 p.m. on the final day at Faraday Hall of SRM University. The team has reached the venue on time. The chief guests have arrived on stage and gave their lectures. After that the winners were announced and given momentous. Unfortunately, our team did not get any prize despite of performing well. We will try our level best and perform better the upcoming year.



**Report On SAE ETWDC EVENT-2K19**

**List Of Members**

S.no	Name	Roll number	Role
1	P.Rahul	17241A03A1	Captain &chassis head and designing
2	S.Ajay	17241A03A6	Vice-captain and procurement
3	D.Sidhardha	17241A0375	Suspension head and manufacturing
4	Sk.Asif	17241A03A8	Suspension and procurement
5	V.Akhil	17241A03B7	Braking and manufacturing
6	B.Shiva Ganesh	17241A0367	Braking and procurement
7	A.Chinnu	17241A0361	Transmission head and designing
8	M.Mahesh	17241A0381	Transmission and procurement
9	K.Bhavesh	17241A0386	Transmission and manufacturing

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## SAE ETWDC-2019

SAE Electric Two Wheeler Design Competition is a national level event conducted by Society of Automobile Engineering Indian Southern Section. For this event we need to present our design of our electric vehicle and our vehicle had to undergo different tests. The event took place in the on the of September, in Bannari Amman institute of technology, Erode, Tamil nadu.67 teams have participated for this event.

### Event Details

SAE ETWDC-2019.

27<sup>th</sup> to 29<sup>th</sup> of September, 2019.

Bannari Amman Institute of Technology, Erode, Tamil Nadu.



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## **AT THE EVENT**

### **➤ Day 1:- (27/09/2019)**

On day-1 we registered our vehicle by 9am and then the event started in a seminar hall by introducing guests and their interest on E-bike competition. They informed to announce on release of schedule on the complete event after the completion of seminar. After 12'o clock the schedule was released and the tests in the schedule are as follows

- Registration
- Inauguration
- Event briefing
- Exhibition of the vehicle
- Technical presentation
- Technical inspection
- Range test
- Brake test
- Gradeability
- Maneuverability test
- Bump test

After the inauguration and event briefing exhibition of the vehicle was do. Where different judges for different test visited all the vehicles which were present in the pits. Then the competition started. After that our team split into 2 groups of 4 and 5 members.one visited the inspection panel and the other visited the presentation panel. The inspection group visited the inspection panel around 2pm and had to undergo 5 rounds those where weight measurement, aesthetics, design report, vehicle stability and innovation. Our vehicle has cleared all the inspection round. The presentation group visited the presentation panel by 3pm.

After the completion of the inspection round and presentation round, our vehicle had to undergo the range test and we are proud to say that our vehicle has only consumed 0.9volts for completing 4.5km

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run. By that our day-1 was completed.



➤ **Day 2:- (28/09/2019)**

On day-2 of the event started with brake test of our vehicle. A track was prepared for that. They measured the stopping distance of the vehicle at maximum speed when the brakes are applied. Brake test was completed around 10:15am.



Next was maneuverability test. Maneuverability test was completed around 10:45am.



At 11:30am gradeability test was started. Two types of tests were conducted in a single track. First was to start climb the grade directly and the second was to climb the grade after gaining speed.





➤ **Day 3:- (29/9/2019)**

Day-3 of the event started with the bump test. Here we had to complete 3 laps. Each lap had 28 speed breakers. If any parts of the vehicle come off or the rider takes the support of his legs or if he misses any speed breaker, negative points were awarded for them. The bump test was completed around 10 o'clock in the morning.



After the completion of the bump test, an innovation report was done by 2 judges for every vehicle and innovation of the vehicle was to be shown to them. That was completed around 1:45pm.

Finally, the validation function was conducted in the seminar hall. The prizes were distributed by the manager of Ashoke Leyland and the champion of the event, Pradeep Kumar. Final results were displayed on the notice board after the validation function.



## REPORT ON MEGA ATV CHAMPIONSHIP 2019

### List Of Members

Year: IV      Section: A

Sno	Name	Roll No
1	G.Bharath Kumar	15241A0316

Year: IV      Section: B

Sno	Name	Roll No
1	G.Madhu	15241A0385
2	M.Sai Kiran	15241A0397
3	P.Viswa Teja	15241A03A4
4	P.Vamsi Krishna	15241A03A5
5	S.Raghuveer	15241A03B0
6	Shaik.Naffiuddin	15241A03B2
7	S.Vaijayanth	15241A03B3

Year: II      Section: A

Sno	Name	Roll No.
1.	M.Nikhil Chand Gupta	17241A0328
2.	Md.Maibu Pasha	17241A0332
3.	Ahmedullah Farooqui	17241A0333
4.	Rithesh Kumar.B	17241A0344
5.	Sai Krishna .T	17241A0352
6.	Nutan Kumar .U	17241A0356
7.	Rohit Datta .Y	17241A0360
8.	A.Rajkumar	18245A0301

Year: II      Section: B

Sno	Name	Roll No
1	Mustabeen Khan	17241a0390
2	Sai Ganesh	17241a03a9

### **Mega ATV Championship**

MAC(MEGA ATV CHAMPIONSHIP) began with the vision of setting a new benchmark for student design competitions held in India. GokarajuRangaraju Institute of Engineering and Technology has competed in this competition in the past under the name “Bruiser Heads”. The main aim of this event is to design,

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manufacture and make an All-Terrain Vehicle (ATV) move within the restrictions set by MAC. Team Bruiser Heads works hard to build the best performing, economic vehicle and to be the number one team.

### Event Details

17<sup>th</sup> to 20<sup>th</sup> March, 2019

Pernim, Goa.

### At The Event

➤ **Day1(18.03.2019) Team registrations**

The first day, “day zero”, there were registrations. We got our pit and arranged our vehicle and tools in the allotted pit.



➤ **Day 2(19.03.2019) Dynamic events**

We cleared our brake test at 1 pm after numerous attempts. After that, we are allowed to choose our own slots depending upon time factor and allowances. We planned and fixed the slots as follows:

- Drag Race is fixed as our first dynamic event and conducted on 1:00 pm
- Flat Dirt Race test is our second event held on 3:45 pm
- Armageddon test is the only track which was not finished by us





### **Day3(20.03.2019)**

#### **Endurance Event**

The last day of the event, we had endurance test of 1 phase. The track is around 9.5km in distance which includes all the test tracks of flat Dirt race, Drag Race. In the first two hours, we have made two laps by having breakdown because of dust in oil filter. By rectifying all the mistakes done, the rest one hour our vehicle was functioning good and made 9 laps covering 85.5km in distance. We stood 21<sup>th</sup> position in this event.



#### **Conclusion**

We achieved 21<sup>st</sup> position in the event out of 100 teams. We will be striving hard to gain better positions in the upcoming years.

## REPORT ON AUTO JUGAAD 2019



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**

# AUTO JUGAAD 2019

**FACULTY CO-ORDINATOR: MR.K.SUNIL KUMAR REDDY**

**CORE MEMBERS: NEERAJA  
DHRUTHI  
MAHESH  
FAROOQUI  
RAKESH**

**SAE-BAJA**

**SAE AERODESIGN**

**DATE: 17-AUG-2019**

**VENUE: MECHANICAL SEMINAR HALL**

### Sae Autojugaad

SAE Autojugaad is an event conducted by SAE Collegiate Club, Mechanical Department, GokarajuRangaraju Institute of Engineering and Technology. The main objective of the event is to interact with members of SAE Collegiate Club and to bring all their efforts and struggles that they are coming across and to convey the advantage of doing SAE projects which bring our technical knowledge into reality .Here students from different projects like BAJA, AERODESIGN, E-BIKE present their design strategies and their way of planning to build their dream vehicle or Aeroplane .This event is held on August 17, 2019 at Mechanical Seminar Hall, GRIET.

### At The Event

During Event, HOST invited our Guests Dean of Student Affairs,**Dr.L.Jayahari** and HEAD OF DEPARTMENT, **Dr.N. Sateesh**. The event started with wonderful speech by Dr.L.Jayahari spoke

about the importance of collaborating with SAE and use of doing the project which improves in developing practical knowledge and basic approach to design,build complete automobile. Next Dr.N. Sateesh took over and continued it with his valuable speech and spoke about converting theoretical knowledge into practical life. Then **Mr.K Sunil Kumar Reddy**, Coordinator of SAE Collegiate Club, motivated every individual to take part in projects, conveyed struggles of students to complete their project.



Dr. N Sateesh (HOD)



Dr L Jayahari, Mr. K Sunil Kumar Reddy, Dr. N Sateesh



Mr. K Sunil Kumar Reddy, Dr.L Jayahari  
Dr. N Sateesh (HOD)



Participated students

After completing their valuable speeches host invited representatives from BAJA (Siddarth and Sivakumar) to take our event. Initially they started presentation with the history of SAE followed by Events organised under SAE. They also presented basic needs and project plans that are made by them to overcome obstacles and to build an All-Terrain vehicle which can run in all difficult and rough tracks. They also presented about the achievements which they secured .Finally their presentation ended up with a special video of their vehicle.

After completing BAJA presentation, host invited representatives from AERODESIGN (Vineeth and Chinnu).They started their presentation explaining the importance of Aerospace and then continued with basic knowledge of designing and building an Aeroplane. They also presented about the event of Aero design which was held a month ago and also their achievements .Finally they concluded their presentation with a video of their flight take off and their event.

After completing both presentation on BAJA and AERODESIGN, Deepak, member of AERODESIGN shared his valuable experience. He explained his complete journey with AERODESIGN and way he achieved all heights of being part with them. He also motivated members to take part and wished all SAE members to reach good heights.



And Finally Event came to an end by singing National Anthem.

**JAI HIND!**

## REPORT ON MECHANO 2K19



**GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous)  
DEPARTMENT OF MECHANICAL ENGINEERING  
PRESENTS

**MECHANO 2K19**

MECHANICAL BLOCK, GRIET...

**Technical Events:**

- Solid Works ₹400 per head
- 3D Printing Workshop ₹500 per head
- Software's Competition (Auto CAD, Ansys, Solidworks) ₹250 per head
- Solid Works +3D Printing Workshop ₹700 per head
- (Solid Works or 3D Printing Workshop) - Software's Competition (if participated in any) ₹150 per head
- Paper and Poster Presentations ₹200 per team

**Non Technical Events:**

- Treasure Hunt ₹100 per team
- Quiz
- Blind Fold
- Movie mania
- Fill in the Memes
- Tiktok ₹100 per head
- Chess ₹200 per head
- Pubg ₹50 per head

WTA upto ₹1500 in technical events

WTA upto ₹4500 in non technical events

Organized By : SAE Collegiate Club

21st to 23rd Feb'19  
9:00 AM to 4:30 PM

\*maximum 2 candidates per team

Contact: Dinesh: 9063974963, Sravika: 9553617914

team\_bruiserheads | Mechano-GRIET | BRUISER HEADS

### MECHANO 2K19

The event has been conducted by SAE collegiate club, Mechanical Department, GRIET. The fest comprises of a three day events from 21<sup>st</sup> February to 23<sup>rd</sup> February.

#### At The Event

##### ➤ Day1:

On the 21<sup>st</sup> February, the fest has started at 9.30 am by welcoming the Principal, Head of Mechanical engineering, and Dean of Student affairs, coordinator of SAE club, professors and students. Our principal Dr. J Praveen, Head of the Mechanical Department Dr. N Sateesh, Dean of Student affairs Dr.L Jayahari and coordinator of SAE club Mr. K. Sunil Kumar Reddy has given their inspirational speeches about the importance of solid works and 3d printing for the practical world and in industrial appliances. They clearly explained the need of such workshops for our future and in development of our career. One of the main thing spoken was about the projects done by our collegiate club and also the progress and achievements of our projects. Their speeches were encouraging and motivating for upcoming students of our college. The inauguration was completed by 11.30am with lighting the lamp and a devotional song was sung by two students for the blessings from God Vinayaka. There was a lecture by Mr B. Krishna Mohan on solid works till afternoon. After lunch there was a



practical lab session for students on solidworks. The other non-technical events treasure hunt and movie mania, and technical event AutoCAD competition has been conducted for the registered students. Thus, the first day was completed with support of the team and elders.



Principal Dr. J. Praveen addressing students



Left to right: K Sunil Kumar Reddy, Dr.N. Sateesh(HOD), Dr.J.Praveen (Principal),  
Dr. S K Singh, Dr. L Jayahari



➤ **Day2:**

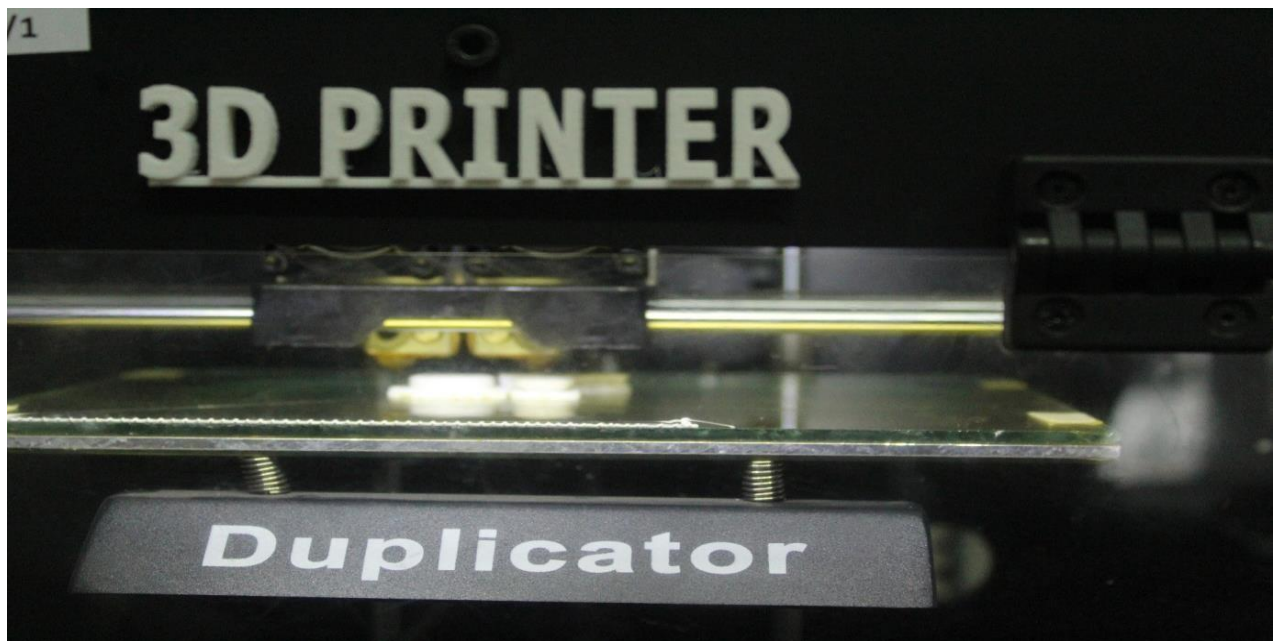
The second day, 22<sup>nd</sup> February was started with a lecture from Ashok Kumar sir, industrial resourced person. He explained about 3d printing, the mechanism involved in it and the way of obtaining 3d objects by using the appropriate machines. He also explained about the need of 3d printing knowledge and applications of it in various fields. He clearly explained about “why 3d printing is one among the technologies of 4<sup>th</sup> industrial revolution”. From afternoon the attended students were divided into two batches, one for solid works and other for 3d printing. The non-technical event, quiz was also conducted on this day.



Mr.K Sunil Kumar Reddy -SAE faculty adviser



Mr. B. Krishna Mohan - Resource person



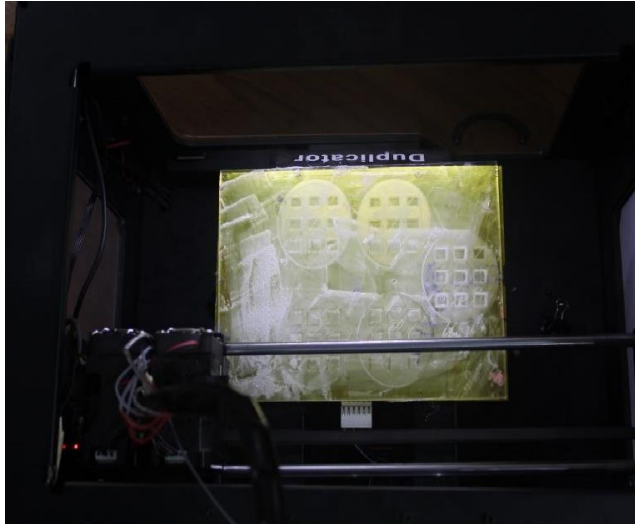
➤ **DAY-3:**

The last day, 23<sup>rd</sup> February, one batch of students went for 3d printing and other for solidworks. Chess competition was also conducted in which many people shown there interest to participate and finally the event was ended in a gratitude way. The winners of the events are awarded, students seemed to be thankful and they are with a happy feeling that they have attained a great knowledge. The event was ended with a vote of thanks to all our professors, elders, students who have supported us in making our fest a grand success. The zeal of

gratitude was seen in the faces that have attended the fest. Thus the fest was ended and PUBG event was also conducted in the evening from 7 to 9pm.



Dr.N Sateesh (HOD), Dr. Ram Subbaiah awarding prize to students in an event



## REPORT ON INDUSTRIAL VISIT TO MIYAPUR BUS BODY UNIT

### SAE Collegiate Club's Industrial Visit to Miyapur Bus Body Unit on 14 December, 2019

Society of Automobile Engineering India Student Collegiate club in GokarajuRangaraju Institute of Engineering and Technology has organized an Industrial visit to Miyapur Bus Body Unit on 14 December, 2019 from 10:00 AM to 2:00 PM for the students of Mechanical Engineering (SAE Students).

The visit is organized with prior permission and guidance of our Head of the Department **Mr.N.Sateesh** and our Dean of Student Affairs **Mr.Jayahari**

**Mr K Sunil Kumar Reddy** was our faculty coordinator for the whole industrial visit trip accompanied by **Dr. Ravi Shekar**.

We have started from college at 9:30 AM (via college bus) and reached Miyapur Bus Body Unit by 10:00 AM. As soon as we reached, we met Mr.Srinivasulu, the Supervisor of the whole Bus Body Unit who got placed in there in the year 2007. He was our guide to the whole visit and took all the necessary actions and precautions during our visit. He explained about the necessity of this unit and the facilities available in the infrastructure. We learned the life cycle of a Heavy Transport Vehicle and basic design considerations made, in order to sustain any condition faced in the means of transport.

In the unit, all the sections are divided and put in well-organized manner such that, the processes that needs to be done, are taken in a specific manufacturing order which minimized the complexity experienced during their working hours. Their manufacturing and fabrication process of a bus has included many peaks and perks, on which they were facilitated with huge machinery and high employment. They demonstrated about how all the machinery works and at which process and purpose they were used. Their hospitality and response was very pleasing. At last we completed our trip at 2:00 PM. We returned to our college at 2:30 PM from the Unit.

This Industrial visit has given us major exposure to most of the present industrial approach and the factors considered while we make a forward step towards a decision. We learned how to improve their present technology present in the unit to an advanced state, thereby reducing their human effort and time efficiency. This has been a productive trip to all the students who attended the visit.

Gallery



SAE students visited Bus Body Unit at Miyapur along with Mr. Sunil Kumar Reddy (Faculty adviser) and Mr. Ravi Shekar