



Activities in the Department of Mechanical Engineering

Month: July

CONTENTS

Date	Name of the Event	Resource person and Topic /Details	Participants / Prize winners details
11.7.19 – 13.7.19	BAJA SAE Virtual 2020	Chitkara University, Chandigarh, Punjab	Team Turbonites
18.7.19	Guest Lecture	Mr Balaji, Manager, CADD India Title: CAD software (Introduction to Mechanical Design Software)	II & III Year students
19.7.19	One Day Workshop	VALEO Leadership Team, Valeo India Limited, Chennai. Topic: MECHATHON 2019 in which different ways to solve industry defined problems was taught.	III A & B 50 students

1. BAJA SAE Virtual 2020 (11.7.19, 12.7.19)

We, Team Turbonites are a group of engineering students with high aspirations. We work with lots of dedication and enthusiasm to build something beyond imagination and set ourselves apart from others. We work to build our own All-Terrain Vehicle (ATV) where each and every component used is completely designed and fully fabricated by students and in the campus itself.

An ATV vehicle is generally for Off roading purpose and to be used in hilly and muddy surfaces. We participate in events like SAE BAJA and many more. This year we registered to participate in SAE BAJA and were expected to submit our presentations for the virtual round. The presentation will be validated and teams will be selected based on their performance in presenting before the jury.

The virtual round was conducted at Chitkara University in Punjab from 12th to 14th July, 2019. We were well prepared for the presentation. We thoroughly learnt the rulebook with the help of our team members and practiced presenting before



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faculty, seniors and the team members. We presented before the jury which consisted five technically strong people. We explained the various lessons we learnt in our previous manufacturing process. They questioned us technically and we were able to provide them convincing answers. We were asked to explain about the team organization structure and the various roles of the members. A test consisting of fifty 2mark questions was conducted for 30minutes and we were able to perform pretty well. This would add extra points to the team and will be considered for the selection process.

We were able to convince the jury with our presentation and satisfactorily answer all their questions. There were many teams from all over India who were tough competitors for us still due to our exposure in fabricating and ATV we were selected for BAJA 2020 Chitkara university.





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2. Guest Lecture - CAD Software (18.7.19)





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3. One Day Workshop MECHATHON 2019 (19.7.19)

(One day event conducted by VALEO Leadership Team in which students will be taught about the ways to approach the industry defined problem and to inculcate solving ability, critical thinking and team work in students)

The event started off with an overview about 'Valeo' given by Mr. Prashad Madhavan (Head of Mechanical Metier), followed by a lecture about innovation and creativity by Mr. Pradeep Kumar (Innovation and Knowledge Manager). A small insight about electric cars and the future of automotive industry was given. Then the students were split randomly into 6 teams of 8 members each. Three major topics: 'Battery Management in electric vehicles', 'Autonomous vehicles' and 'Mobility', was given and the teams were asked to explore the topics. The teams were asked to identify problems specific to the given topic and were made to analyze and propose solutions for the suggested problems. It was a quite tough task but there was very good response from the teams, in finding problems as well as proposing solutions. The people from the 'Valeo Leadership Team' guided and assisted the students throughout the process and helped them in gaining lot of knowledge and exposure



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in knowing the current state of the industry. Later after coming up with ideas, the teams were made to present their ideas. The Valeo Leadership team evaluated their presentations and were impressed by the solutions proposed by the students. They also asked the teams to mail their ideas so as to further evaluate the ideas. The 'Mechathon 2019' was a huge success and the students are looking forward for more such events.





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