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# **SOCIETY OF AUTOMOTIVE ENGINEERS – DTU Chapter**

## **Annual Report**

**1<sup>st</sup> April 2017 – 31<sup>st</sup> March 2018**

### **I.C. ENGINES AND TRANSMISSION WORKSHOP (April 12, 17)**

SAE-DTU successfully organised an insightful workshop on IC Engines and Transmission. Students were educated on a wide range of topics. What goes into Rolls Royce that makes it so expensive? What's the difference between a McLaren F1 and a Tata truck? The workshop was conducted by the then 4th year student, Vinay Rawat, who had done extensive research on this topic. We had a very eager audience who were extremely enthusiastic to learn, their overwhelming response left us thrilled!





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## **SOLIDWORKS WORKSHOP**

**(August 31 – September 1, 2017)**

Society of Automotive Engineers organized a successful workshop about SolidWorks on the **31st of August, 2017** and the **1st of September, 2017** in collaboration with CAD Campus. The event attracted more than 100 eager audience members and benefitted each and every one of them. Professionals held sessions to teach them the essential basic and advanced commands to give the students an elaborate idea of the software. We aimed at giving the students a head start compared to their classmates who normally learn the software in their second year.

Students from all over Delhi and NCR attended the workshop and were all praises for it. The faculty members from other colleges also found it beneficial in terms of the learning experience





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## **ICAPIE' 17 – Knowledge Partner (October 6-7, 2017)**

ICAPIE '17 was the second edition of a one of its kind conference which is held every year to promote discovery, innovation and advancements in the various promenades of the colossal field of Production and Industrial Engineering. It also aimed to bridge the far-flung gap between academia and industry and make us abreast with the avant-garde and pioneer technological advancements in the realm of engineering. Society of Automotive Engineers, DTU, acted as the knowledge partner in the conference.





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## ABHIVYAKTI (October 11, 2017)

SAE-DTU has always been focused on creativity and free thinking. Partnering with Kalakriti, the art society of DTU, we organised Abhivyakti a large scale event like none other providing anyone and everyone an opportunity to paint their hearts out. We witnessed around 700 art enthusiasts from various colleges, schools and NGOs at our own OAT painting, sketching, colouring, designing and crafting to express their ideas and convey their opinions. Prizes worth upto INR 10,000 were there to be bagged.

[Abhivyakti](#) after [movie](#)





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## **PRE-INVICTUS: Tech week (23 – 27 October, 2017)**

SAE-DTU is a diverse society. We believe that exposure is the best method to learn. To give another such exposure to the students of DTU, we invited everyone to a Pre-Invictus (annual Techfest) event. A week full of learning and discovering.

We organized interaction sessions with the Tech Teams of DTU and everyone was invited to attend. The teams explained to everyone about the theoretical and practical aspects of their current projects and the competitions they had participated in and won. We collaborated with Baja, Casrae, Defianz, Altair and Supermileage. It was a very successful event with a large audience who left after a week of learning and fun interaction with seniors.

<https://www.facebook.com/saeindiadtu/videos/1321243151332513/>

The poster features a blue background with technical drawings of a car chassis. At the top left is the SAE DTU CHAPTER logo. In the center, the text reads 'PRE-INVICTUS TECH-WEEK' with 'PRE-INVICTUS' in red and 'TECH-WEEK' in large blue letters. Below this is the tagline 'BRINGING IN ALL TECH TEAMS TOGETHER...'. The event schedule is listed at the bottom: 23rd October (DELTECH BAJA), 24th October (CASRAE), 25th October (DR), 26th October (DTU ALTAIR), and 27th October (STV). At the bottom left, it states 'FREE FOR SAE MEMBERS' and 'REGISTRATION FEE FOR NON SAE MEMBERS : Rs50/-'. In the center, it specifies 'VENUE: SPS 13' and 'TIME: 5:00pm - 7:30pm'. At the bottom right, contact information is provided: 'FOR FURTHER DETAILS, CONTACT: DEEPANSHU : +91-9958632404' and 'DEVANSHU : +91-8447453581'.



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## **RESEARCH INTERNSHIP PROGRAM (December, 2017)**

SAE – DTU helped students get in touch with our faculty advisors, Prof. Amit Pal and Prof. Vijay Gautam to work on research papers under their guidance.

Interviews were conducted by the faculty members themselves to bag an internship . Students worked on their research project for the entire month of December.





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## **NFEST' 18 (8-12 January, 2018) - Partner**

Society for Fusion of Science & Technology in association with Delhi Technological University, NIT Kurukshetra, YMCA University of Science & Technology and other premier institutions organised Intl Conference on New Frontiers in Engineering, Science & Technology (NFEST-2018) at New Delhi, India during January 8-12, 2018.

NFEST-2018 invited original research articles/review papers from students, academicians and industry professionals in Engineering, Science, Technology, Social Science & Management.





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## **INDUSTRIAL VISIT**

### **Delhi Metro Rail Corporation (13 January, 2018)**

With the commencement of 2K18 SAE- DTU went on its first industrial trip of this year, the DELHI METRO RAIL MUSEUM to learn new things about Delhi metro and its upcoming projects. The members also learnt about the techniques and working of Delhi Metro and expand their technical knowledge about the same. We, at SAE-DTU will continue to organize such endeavours in future to help the students reach their final goal of individual development as a person and as an engineer.







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## 3D Printing Workshop (25 January, 2018)

3D printing has been one of the most perplexing advances in technology which is now used extensively in varying fields to ease the processes once deemed troublesome and exhausting. SAE-DTU conducted a 3D printing workshop and demonstration with SPC and HR Cad Centre at our OAT itself in which students got a chance to not only see one such machine in operation, but also to get any of their designs 3D printed for free for themselves!



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## **INDUSTRIAL VISIT**

### **Auto Expo 2018- Components (11 February, 2018)**

Everyone is curious about and fascinated by cars. So, acting on the impression that one learns best by exposure and direct interaction with teachers and seniors, we organised an industrial visit to one of the most anticipated annual automobile related events, the Auto Expo. Last year, our team of 50 students along with our faculty advisor, Dr. Amit Pal, explored Auto Expo 2018 - Components. From learning in detail about the beautiful cars that we see every day to seeing their working, it was an enthralling experience. The students left after a great day of learning and bonding.



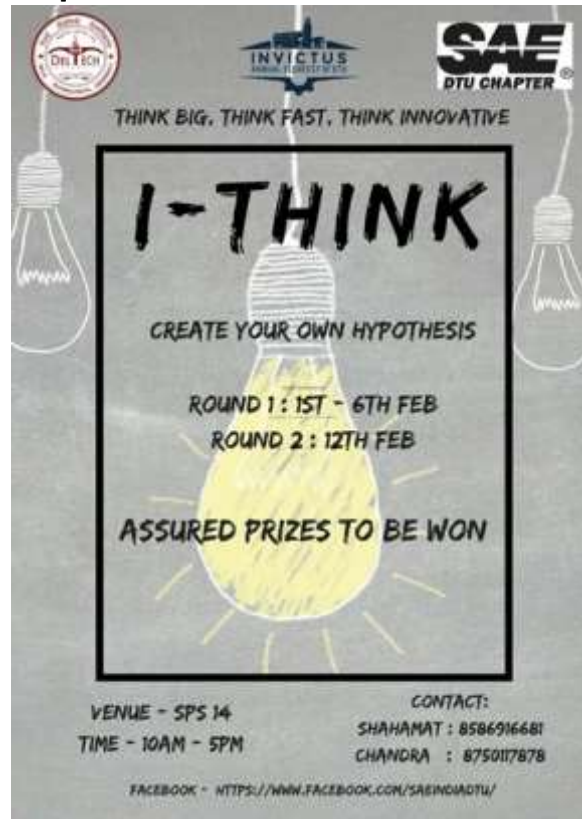
## **INVICTUS'18**

SAE DTU took part in the annual technical fest of the college, Invictus and organised 5 events namely,

1. Battle of Brands
2. iThink
3. Airglider
4. Quiznova
5. Contraption



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### iTHINK (February 12, 2018)

iThink, an SAE-DTU organized competition, was a platform where anyone could come up and showcase their idea. The stage was open to all age groups and we received International participation as well. The 10 finalists presented their ideas in front of our judges, Mr Deepak Kathait, who has his own startup since Year 3 of college.





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### **Battle of Brands (February 13, 2018)**

This was an SAE-DTU organised event where participants' skills were put to test at various levels by providing them with marketing and advertising case studies associated with some of the most famous companies in the world. Not only did this help them think on their feet, but also forge new bonds and made them admire various view points on a single issue (skills which all companies are on the lookout for these days). In the three round competition focussing on case studies on well-known brand in different fields and their solutions.



### **SAE-DTU also organized 3 events in collaboration with INNOVA, namely Airglider, Quiznova and Contraption. (12-13 February, 2018)**

1. Students from various colleges participated in Airglider. They made gliders out of balsa wood in teams of 2.
2. Quiznova was a 25 minute quiz comprising of 15 questions related to mechanical engineering.
3. Contraption required participants to make a path with waste material (like used PVC pipes and ice cream sticks) which had an object lit on fire kept at the end. They had to place various objects on the path which when hit by the previous object, would travel up to the next object and would eventually result in the body on fire getting put off.



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## **FUSION CONCLAVE (19-20 March, 2018)**

SAE-DTU Chapter in association with H.R. CAD Centre organized a two-day **national level AutoCAD championship**. The competition was held over a period of two days with students from all over India coming in to participate. The response was very good and the students gained more than just the prizes from the event. They interacted among themselves and made professional relationships with each other. Furthermore, the students got a chance to interact one on one with teachers authorised by AutoDesk. The competition was held in three rounds of which the first round took place on the 19th of March, 2018 and the second round on the 20th of March, 2018.



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