

KPIT Sparkle



Mission

To support, nurture and mentor innovation for students within STEM with a focus on areas of Mobility and Energy

Objectives

- To spread the culture of innovation at grassroots level and inculcate innovative thinking to identify and solve a real-life use-case/problem by developing a solution
- To give an opportunity of rising up to indigenous solutions to the problems faced by our country within the areas of Mobility and Energy
- To encourage students to generate IP and facilitate them to secure their intellectual property
- To facilitate incubation across India
- To encourage students to become entrepreneurs
- To provide faculty of academic institutions a hands-on experience on problem solving and strengthening the student - mentor bond.

AIT has now won the top prize for the second straight year!

KPIT Sparkle 2019

KPIT Sparkle till the 2019 fifth edition had received nearly 6000 ideas from more than 50,000 students nationally.

The fifth edition of KPIT Sparkle received more than 2000 ideas from around 22,000 engineering and science students across India. The theme for the 2019 edition was “**Energy and Mobility for the Future.**” It sought futuristic solutions, based on cutting-edge technologies, to solve problems in areas, such as renewable energy generation, energy storage, energy utilization and clean, safe, shared, connected, and secured mobility. The competition aimed at fostering innovation among students by providing them with an opportunity to imagine, ideate and develop innovations with a high social impact on sustainability.

The 30 best teams presented prototypes of their solutions to the jury and incubation partners at the grand finale at a public exhibition. Finalists were evaluated based on the novelty, affordability, and commercial viability of the proposed ideas. The winners of the contest were evaluated by a panel of eminent jurors and announced at an award ceremony on February 24, 2019, where cash prizes of INR 16 Lakhs were awarded to them.

Platinum award winner



Team Aqua of Army Institute of Technology (AIT), Pune, won the Platinum award of Rs. 10,00,000 for developing a **Vertical Axis Water Turbine (VAWT)**, which is 24% more efficient than a conventional system. The turbine can be used for both small and large-scale energy production and in all flow conditions.

Sachin Dwivedi and **Shivam Mishra**, Final year students of the Mechanical Engineering graduating class of AIT year 2019 shared their experience through a very interactive session "**Winning KPIT Sparkle: A Journey**" with all the Mechanical Engineering students. Thus motivating them to follow in their footsteps to make a difference at the later editions of KPIT-SPARKLE and to the nation with their creativity and innovation.

KPIT Sparkle 2020

Now in its 6th edition, KPIT Sparkle brings industry and academia together to shape the innovations of the future. Faculty and students of undergraduate, post-graduate and PhD courses, from the Science, Engineering, Design and Management streams, of colleges and universities across India, find a platform at KPIT Sparkle. This year's competition theme was Mobility & Energy for the Future.

The sixth edition of KPIT Sparkle received more than 15,000 ideas from 1088 colleges across India. Two teams from AIT were short listed in the elite group of 30 finalists. The grand finale that took place on March 01, 2020 was a true nail biting event. **AIT** had two teams that featured in the final 30; all five students were from Third year Mechanical Engineering. The two teams were **Team Detox** and **Team AmpV**. Both teams were true crowd pullers and enjoyed the limelight all throughout. Team AmpV with Sahil Uttekar and Madhusudhan Bhosale offered a solution to the rising scrap possibility due to aging Scooters. The solution puts forth a Retrofitting and Affordable option to the common folk that use two-wheelers. Their working prototype was a favorite and won them lot of cheers. Team Detox with Pitambar Panda, Vishal Singh and Priyanshu dazzled the jury and the crowds with an innovative design of vertical axis wind turbine. The highlight of their work was the usage of virtual engineering techniques to optimize the design. They too had a prototype that was made using 3D-Printing technology that AIT offers to its students and other strategic partners.

Gold award Winner



Team Detox won the Gold honors and claimed the FIVE Lakhs prize! Dr Anil Kakodkar and Mr Ravi Pandit gave away the top prize.



The two proud teams flanking the AIT leadership at their booths, from left: Team AmpV, Principal (Dr Bhagwat P Patil), Mechanical Head of Department (Dr Sanjiv M Sansgiri), Director (Brig Abhay A Bhat [Retd]) and Team Detox.