

Inviting India's Brightest young thinkers. SPARKLE 2016 is here again



KPIT and COEP to launch *KPIT Sparkle 2016*, the Innovation Competition.

In today's technology-driven world, students are best equipped to come up with original, transformative ideas that have the power to make a difference to the world.

KPIT and COEP come together again to launch the second **pan-India innovation competition**, *KPIT SPARKLE 2016*. Today, energy and transportation are two of the biggest challenges we face as a nation, offering the highest opportunities for breakthrough solutions. Therefore the theme for this year's contest is, '**Smart Solutions for Energy and Transportation**'. We invite India's brightest young students to present world-changing ideas for transforming energy and transportation sectors.

Here are some of the opportunities for innovations in these two sectors.



How can we have clean, abundant energy at low cost? How can we develop low cost energy storage devices to store the energy when the demand and supply do not coincide? How can we reduce losses in energy distribution? Currently energy is generated by a few but consumed by many. How can we make every consumer a producer also? Can we bring our energy imports to manageable levels? Can we generate energy from waste or from our normal activities like walking or breathing? How can we reduce energy consumed – because every unit saved is equivalent to a unit generated. Solutions to these problems are just a few of the many opportunities in the energy sector.

What methods can we deploy to ensure safe driving? How can we reduce pollution on our roads? How can we improve the efficiency of an internal combustion engine from the present 20% to say 40%? What exciting ideas can we bring to life in the area of infotainment systems? How can safety be improved to prevent accidents? The cost of petrol continues to rise with no end in sight. Is fossil fuel the right choice of energy source? Could we think of better fuels? Can we think of multiple modes of transport keeping the time of journey minimum?



You can find more such questions on our website kpit.com/sparkle. These questions are to be seen merely as suggestions. They are not meant to restrict students in anyway.

Who Should Participate?

Every student of science and engineering whether at Bachelor's, Master's, and Doctoral levels is welcome to participate in this contest.

What does this contest bring to you?

Apart from all India recognition and a chance to interact with India's best scientists.



KPIT Sparkle offers the following awards:

₹10 Lakh 1 Platinum Award	₹5 Lakh 1 Gold Award	₹1 Lakh 5 Silver awards
Awards for Top 3 Poster Designs ₹75,000 ₹50,000 ₹25,000		

To know more about the contest, please visit our website

kpit.com/sparkle

Highlights of KPIT Sparkle 2015

KPIT Sparkle 2015 was a great success. Over **1100 students from 114 science and engineering** colleges submitted over **420 innovative ideas**. These students came from 17 different states in India.

The ideas were reviewed and judged by a jury comprising eminent figures from the field of science and technology including

- Dr. RA Mashelkar, Head, Innovation Council, KPIT
- Shri. Anil Datar, General Director, DRDO (Defence Research & Development Organization)
- Shri. Arun Firodia, Chairman, Kinetic Group
- Prof. Mathai Joseph, former Executive Director at the Tata Research Development and Design Centre, Pune
- Dr. Ashish Lele, Polymer Science and Engineering Division, NCL (National Chemical Laboratory)
- Shri. Satish Gokhale, founder of Design Directions Pvt. Ltd
- Shri. Alok Mukherjee, Head of Robotics at R&D E (Engineers), Pune
- Dr. Anil Sahasrabudhe, Director of COEP

The finalists were evaluated for novelty, utility, and inventiveness of their ideas at a grand exhibition held at KPIT's campus in Hinjewadi. **Prof. MS Ananth** - Pioneer of IIT Madras Research Park, India's first university-based research park, was the chief guest at the awards ceremony.

Winners of 2015

Platinum Award: INR 10 Lakhs



Jainendra Mishra

From Siddaganga Institute of Technology,
Tumkur, Karnataka

Won the grand prize for his innovation. His solution was aimed at increasing efficiency of hybrid and electric vehicles running on lithium-polymer battery pack, by using a novel circuitry grid, SANDY (Switching algorithm AND cell DYNamics) algorithm.

Award Presented By:
Prof. MS Ananth

Gold Award: INR 5 Lakhs



Suraj Aru, Shubham Gajabhiye, Tejas Auti, Harshal Nikam, Pravin Jadhav

College of Engineering, Pune

Won the Gold award of INR 5 Lakhs. They created a centrally suspended cage-less differential for the automotive sector.

Award Presented By:
Dr. RA Mashelkar

Silver Award: INR 1 Lakh

There were three Silver award winning teams



Shruti Kharwandikar and Kruti Patel
from MKSSS's Cummins College of
Engineering for Women, Pune.

Award Presented By:
Dr. Anil Sahasrabudhe



**Ajay Kandgal and Vivekanand
Kulkarni** from B.V. Bhoomaraddi
College of Engineering and
Technology, Hubli, Karnataka.

Award Presented By:
Prof. Mathai Joseph



**Sourabh Alagundagi, Rajat Ba
Sumitra Malagi** from B.V.
Bhoomaraddi College of Engine
and Technology, Hubli, Karnatal

Award Presented By:
Shri Satish Gokhale



Poster Design Competition: INR 75,000

Won by a team of four students; **Santosh Chaturvedi, Mahesh Utekar, Mayank Wadhawan, Aditya Zade** from Sardar Patel College of Engineering, Mumbai.

Award Presented By: **Anup Sable**

**To know more about the contest,
please visit our website**

kpit.com/sparkle

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