

# IDEATE

## OVERVIEW:

In recent years ideas have been the fuel the world runs on. With the increasing demand for innovation and out of the box thinking, KJSCE aims to foster an environment for thinking and doing. With ideate we aim to get students to get pen to paper, put their thinking caps on and think. As an engineering college our institution needs to be a temple for learning and innovation. Both of which is not possible without proper thought and contemplation.

## ABSTRACT:

The city of Mumbai, being the most populous city in India, experiences a considerable amount of vehicular pollution. The city has hit an Air Quality Index (AQI) of 96 (category: Moderate) and hits a maximum of 160 AQI (category: Moderately polluted) during peak hours. More vehicles result in emissions of particulate matter (including PM2.5, PM10, Suspended Particulate Matters, etc.) all of which are designated as Group 1 Carcinogens by International Agency for Research on Cancer (IARC) and the World Health Organization (WHO). Studies have shown that an increase of  $10\mu\text{g}/\text{m}^3$  in the smaller PM2.5 results in a steep 36% increase in lung cancers.

The density of traffic in Mumbai city has been growing exponentially, however the city has one major advantage to curb the problem under discussion - its electrically operated suburban railways. The 427.5 km long railway system consisting of six lines, covers not only the entire Mumbai city, but also parts of Thane district and Navi Mumbai, upto the district of Raigad. However, even though the timings are reliable and the availability of trains is frequent in the city region, the major issue that comes in hand is the overcrowding of trains. Over 4500 people accommodate a train that has a carrying capacity of 1700. The public road transport also tends to be ineffective as a result of dense road traffic.

## PROBLEM STATEMENT:

The primary aim of this competition is for the participants to propose and advocate solutions that reduce the quantity and density of the traffic by focusing on the usage and improving the efficiency of the Mumbai's public transportation system.

## ELIMINATION ROUND:

Participants should submit their report in a PDF format on or before September 26, 2016. All the entries will be judged by an internal panel and the shortlisted participants shall present their ideas on 1st October 2016, i.e the 2nd day of Abhiyantriki. The final presentation should be through a Powerpoint presentation. All the shortlisted participants will receive certificates of excellence on behalf of KJSCE.

The shortlisted participants will be informed of their status on September 28, 2016 via E-mail or a phone call. The rights to eliminate participants lies completely with the Abhiyantriki Organising Committee.

## GUIDELINES FOR PRESENTATION:

- Ideate will be conducted in english. So it is preferred that all participants present their ideas in english.
- The presentation should not exceed more than 10 minutes.
- Formal attire is a must while presenting the ideas.
- The participants can side-step a certain aspect of the given problem statement (and must mention it in their reports and presentations) if it enables them to get a better result.

## ELIGIBILITY CRITERIA:

- Should be a college student
- Maximum age limit is 27 years



## JUDGING CRITERIA :

The execution of the proposed idea must require existing technology and must not rely on any advancements that are not in application.

The idea and its subsequent execution must be sustainable and must have considerable social impacts in the near future.

Plagiarism, by no means will be tolerated. Plagiarised content will result in debarring of the team immediately.

The proposed ideas should be cost efficient and be market fit.

The proposed ideas should eliminate most of the limitations referred to in the abstract.

## CONTACT:

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