



# *i*Innovate

CONTEST



# 01

## What is i Innovate?

**i Innovate** gives an opportunity to submit innovative and valid ideas related to India Specific problems in the area of “**Mobility & Energy**”. Here you can select your own problem statement, propose solutions and submit your innovation to the contest.

## 02

## Theme for i Innovate

**“Mobility & Energy for the Future”** Students can submit their innovation by choosing following categories. Participants can submit one more ideas

### Mobility:

<b>Electric Vehicles</b>	New Motor Designs for Evs, Motor control Techniques, Electric Motor Efficiency Improvement, Efficient Thermal Management Techniques for EV components like Battery, Motor, 2/3 Wheeler EVs
<b>Hybrid Electric</b>	Supervisory Controls for HEVs, New Transmission Designs for HEVs
<b>Hydrogen Fuel Cell Vehicles</b>	Integration of Fuel Cell Stack in Vehicle, Alternative to Nafion Membrane, Thermal management of Fuel Cell
<b>Charging Infrastructure for Electric Vehicles</b>	Smart Chargers, Fast Charging of EVs, Wireless Charging of EVs (IEC 61980), AC/DC Chargers (IEC 61851)
<b>Machine learning/ Artificial Intelligence for Automotive</b>	ML Based Diagnostics for EVs, Deep Learning for Vehicle Parking, Detecting Traffic Rule Violations
<b>Telematics for 2/4 Wheelers</b>	In-Car Speech Recognition (Alexa Integration), Bike Navigation Systems, Telematics for Vehicle Fleet Operations (Goods Transport/Taxis)
<b>Solutions for Improving Road Safety</b>	Smart Helmets, Reducing Tire Bursts, Better Visibility for Night Driving, Accident Prevention
<b>Shared Mobility</b>	Platform for Multi-modal Transport, Passenger Safety
<b>Sensors - Actuators for Automotive</b>	Nanomaterials, Biomaterials for Sensors/Actuators, Sensor Fusion

# Energy:

<b>Energy Storage Technologies</b>	Novel, Low Cost, Earth Abundant Electrode Materials for battery, Novel Electrode Architectures, Solid Electrolyte, Hydrogen Storage Challenges, Solid State Batteries
<b>Energy Generation Technologies</b>	Gas Production and Collection by using Techniques related to Bio-Fuels from Bio-Mass, Improvement in Hydrogen Generation using Electrolysis, High Efficiency Power Generation Technologies
<b>Renewable Energy Solutions</b>	New Materials in Solar Photovoltaics, Compressed Air Solutions, Solid Oxide Fuel Cells

# 03 Who can participate?



This innovation platform is for all students of undergraduate, post-graduate & PhD courses from Science, Engineering, Design and Management colleges and universities across India.

Student can participate either as an individual (=1 member) or as a team (maximum team size: 5 members).



There is no restriction on team configuration; team members can be from same or different department(s), branches and colleges

# 04

## Things You need to know before participating!

Visit  
<https://sparkle.kpit.com>

01

**Register by filling in relevant information.**

All team members to register individually. Team leader should invite all team members to form the team

02

**Select i Innovate challenge**

03

**Select category and sub category of the idea you wish to submit**

04

**Submit a Video of 3 mins** stating – Introduction Slide with name & Project title. The team leader needs to explain Problem Statement, Solution, Innovation and Plan to build the prototype

05

**Accept the terms and conditions to proceed.**

Your idea will have a unique sparkle ID generated.  
e.g. SP20I00001

06

**Students submitting valid idea will be eligible for hiring.**

07

# Things You need to know before participate!

**Last date for registration  
& idea submission is  
30th Sept, 2019**

08

**Submitted ideas will be  
evaluated for selection  
of top 100**

09

**Approved top 100 ideas will proceed to next  
round of prototype development (Phase 2).**

The actual idea should be realized in the  
prototype which can be implemented on any  
of the following: Hardware,  
Software, Car, Bike, Bicycle

**NOTE: Small scale models or toy mechanisms  
will not be accepted as prototype**

10

**Submitted prototype  
videos will be evaluated  
for selection of top  
30 projects (Phase 3)**

11

**Selected top 30 teams  
need to be present  
for the finale at Pune.**

12

# 05 Benefits:

1

Solve problems related to Mobility and Energy

2

Employment opportunities on valid idea submission\*

3

Awards up to **₹21 Lakhs** for Students

4

Awards up to **₹60K** for mentors

5

IP ownership with Students

6

Incubation opportunities\*

*\*Conditions apply*



# 06 Timeline for the contest:

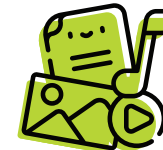
Phase 1



Registration, Idea  
submission & Evaluation

**31<sup>ST</sup> MAY 2019 – 31<sup>ST</sup> OCT 2019.**

Phase 2



Prototyping

**1<sup>ST</sup> NOV 2019 –  
1<sup>ST</sup> JAN 2020.**

Phase 3



**Grand Finale**

**29<sup>TH</sup> FEB – 1<sup>ST</sup> MARCH 2020.**

# 07

## Awards:

1

Platinum Award  
**₹10 LAKHS &  
₹25K** (For Mentor)

2

Gold Award  
**₹5 LAKHS &  
₹15K** (For Mentor)



3

Silver Award x 2  
**₹2.5 LAKHS &  
₹10K** (For Mentor)

Most Popular Project Award  
**₹1 LAKH**



thank you