



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:

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

Energy:

Energy Storage Technologies	Novel, Low Cost, Earth Abundant Electrode Materials for battery, Novel Electrode Architectures, Solid Electrolyte, Hydrogen Storage Challenges, Solid State Batteries
Energy Generation Technologies	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
Renewable Energy Solutions	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

31ST MAY 2019 – 31ST OCT 2019.

Phase 2



Prototyping

**1ST NOV 2019 –
1ST JAN 2020.**

Phase 3



Grand Finale

29TH FEB – 1ST 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