

KPIT | SPARKLE
2021

What is I-Innovate Contest?

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 this platform.

Theme - Mobility & Energy for the Future

Students can submit their innovation by choosing following categories. Participants can submit only one idea with one team

Mobility

Electric Vehicles

New Motor Designs, 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 for Automotive

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)

Road, Vehicle, Passenger
safety, Shared Mobility

Smart Helmets, Reducing Tire Bursts, Better Visibility for Night Driving Accident Prevention, Platform for Multimodal Transport

Post COVID-19
(Pandemic) Solutions

Sanitization solutions, Social distancing models in public transport, solutions for masks, Self-Sanitizing material in Vehicle, Proximity alert mechanisms, Innovative Air quality systems in Vehicle

Theme - Mobility & Energy for the Future

Students can submit their innovation by choosing following categories. Participants can submit only one idea with one team

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

Hydrogen 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

Sensors - Actuators for Automotive

Nanomaterials, Biomaterials for Sensors / Actuators, Sensor Fusion

Who can Participate?

1

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

2

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

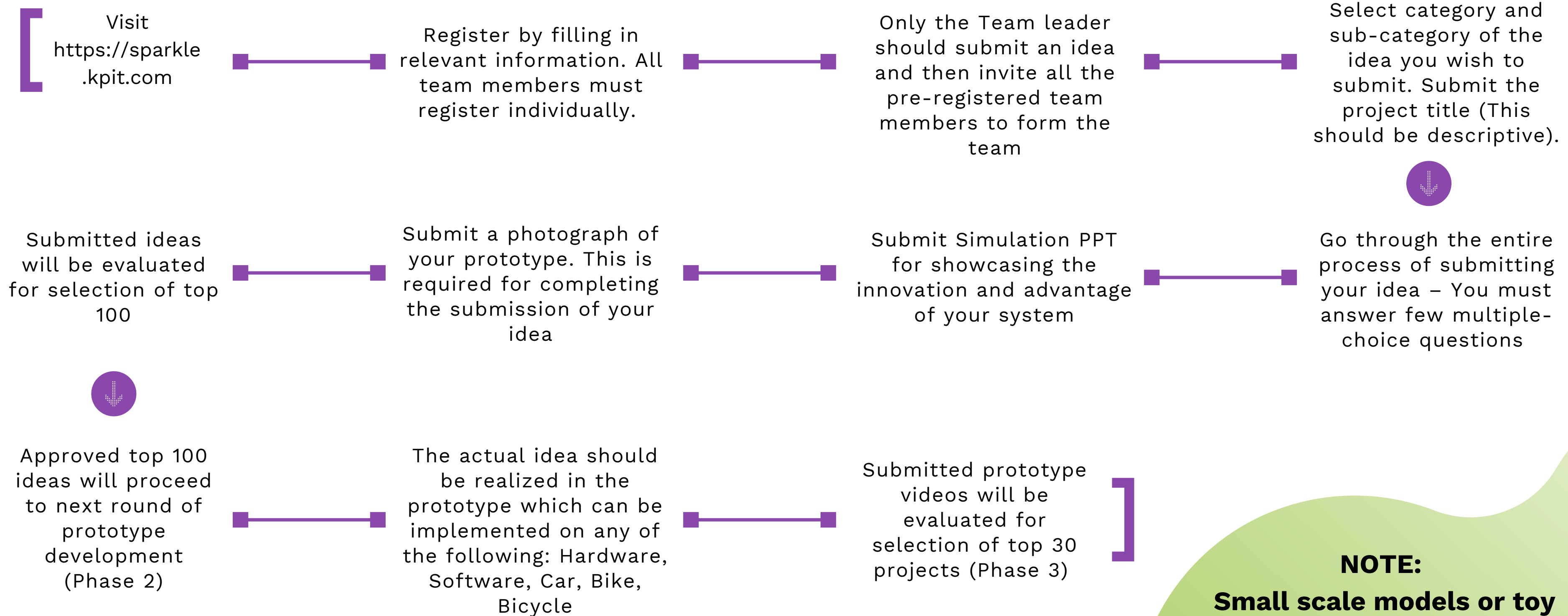
3

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

4

Participants shall appoint a mentor to their project. Mentor can be college professor or outside from the college.

Participation Process



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

Benefits

- ▶ Solve problems related to Mobility and Energy
- ▶ Awards up to ₹21 Lakhs for Students
- ▶ Awards up to ₹60K for mentors
- ▶ Incubation opportunities with our partners*
- ▶ IP ownership with Students

*Conditions apply

Timeline



March - 30th Sept 2020

Registration, Idea
submission,
Prototyping &
Evaluation



July - Dec 2020

Guidance to
Top 100 &
Finalist
Selection



Feb - March 2021

Grand Finale &
Award Ceremony

Awards



Platinum

**10 Lakhs
&
25K for Mentor**



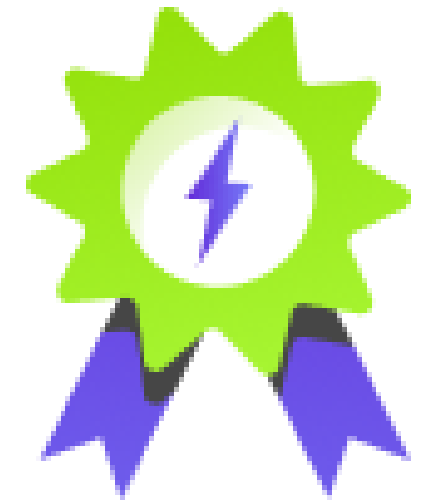
Gold

**5 Lakhs
&
15K for Mentor**



Silver

**2.5 Lakhs x 2
&
10K for Mentor**



Most Popular

1 Lakh

Important Rules

▶ During registration:

- Register before the deadline
- Provide authentic information in the form
- Submit correct email ID and mobile number for OTP verification
- Check your emails and SMS for notifications regularly
- Follow all social media handles to get latest updates about KPIT Sparkle

▶ During Idea Submission:

- Go through all theme categories wisely
- Think of an idea which aligns with one category
- Discuss the idea with Mentor/Professor for better guidance
- Form a Multi-disciplinary team (Students from different year / branch)
- Submit your idea adhering to the guidelines

Glimpses of KPIT Sparkle 2020



[Click Here](#) to watch KPIT Sparkle 2020 Grand Finale Glimpses

Successful Incubation Stories



Team ZERO DNT Incubated at
CIIE, IIM Ahmedabad
College: IIT Madras



Team Drivetrain Incubated at
Bhau Institute, COEP
College : Jayawantrao Sawant
College of Engineering, Pune



Team Aqua Incubated at
Bhau Institute, COEP
College : Army Institute of
Technology, Pune



Team Wheel Incubated at
CIIE, IIM Ahmedabad
College: D.Y. Patil College of
Engineering & Technology,
Kolhapur



**27/30 Finalists Teams from last year have started
their incubation journey**

Our Partners

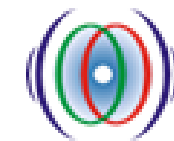
Knowledge Partners



राष्ट्रीय डिज़ाइन संस्थान
NATIONAL INSTITUTE OF DESIGN



Incubation Partners



Science and Technology Park, Pune
Supported by NSTEDB, Dept. of Science & Technology, Govt. of India



Connect us at

Website

sparkle.kpit.com

Email

KPITSparkle2021@kpit.com

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