

PRESENTS



**JUNIOR**  
 YOUR FUTURE STARTS HERE



# India's First & Unique Solar Car Event for School Students ( 6<sup>th</sup> to 12<sup>th</sup> Standard )

**200+**  
**REGIONAL CENTERS**

**1 CRORE+**  
**TOTAL PRIZE MONEY**

**DELHI**  
**APRIL 2020, FINAL EVENT**

**PARTICIPATING TEAMS WILL HAVE REGIONAL ROUND IN THEIR CITIES.**

REGIONAL CO-ORDINATOR -  
 Mr. S. Loganathan (Assistant Professor)  
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REGIONAL VENUE -  
 Crescent Institute of Science & Technology (ESVC-J-004)  
 Seethakathi Estate G.S.T Main Road Vandalur, Chennai, Tamil Nadu 600048




## ABOUT EVENT

**ESVC : ELECTRIC SOLAR VEHICLE CHAMPIONSHIP** is the India's first and Asia's biggest solar car event for engineering students and experts organised by Imperial Society of Innovative Engineers - ISIEINDIA [A National Youth Award 2015-16 Winner, Accredited with SFI Foundation, FMSCI (Ministry of Sports) and Recommended by Ministry of New and Renewable Energy(MNRE), Govt. of India, EDN(USA), SMEV]. Now, ISIEINDIA is launching ESVC-JUNIOR, India's First Solar Car Event for schools with the vision to prepare students for future from the beginning.


ISIEINDIA has successfully organized Six Seasons of ESVC where 500+ Solar Cars has been manufactured and 500+ Colleges/Universities participated from 22+ States of India.

**ELECTRIC SOLAR VEHICLE CHAMPIONSHIP - JUNIOR** It is a national level solar energy education program and championship for school students. The event where students from schools will design, build and race high-performance solar-powered remote-controlled cars.

School teams can register on Website and select their nearby regional centre. Qualified teams from each region will be selected for the final round. Final round will be in NEW DELHI, April 2020.

200+ 

REGIONAL CENTRE

10,000+ 

SCHOOLS PARTICIPATION

1 CRORE+ 

TOTAL PRIZE MONEY

INDIA'S FIRST  
SOLAR EVENT FOR  
SCHOOLS

EVENT LAYOUT

REGISTRATION

KIT REGISTRATION

ONLINE TRAINING

REGIONAL ROUND

FINAL ROUND

EXCITED  
ABOUT  
THE  
SOLAR  
EDUCATION!

## KEY EVENT COMPONENTS.....



### **MATERIAL KIT**

Each team receives a sophisticated material kit with all of the raw materials needed to build a complete ESVC Junior car, while allowing maximum design freedom.

Teams require only basic tools and adult supervision but this is also a perfect opportunity to utilize advanced fabrication technology such as CNC machines, custom circuits/programs, vacuum lamination, laser cutters, 3D printers, etc.



**TECHNICAL PARTNER :**

**TECH  
IMPERIAL**  
Excellence. Innovation. Expertise.

[www.techimperial.in](http://www.techimperial.in)

### **ONLINE TRAINING (FREE)**

ISIEINDIA Skill Development Cell has developed exclusive online training Module that will guide teams through the process of designing, building, testing and racing.



This multimedia course is supportive for the team members and also for the mentor or team leader who may also be working with these technologies for the first time.

Through the course, teams can ask questions to our expert and discuss challenges with other teams in their area. Teams are typically made up of 5-10 members.

#### **Training Modules:**

- Module 1: Basic Concepts & Introduction about Solar Car
- Module 2: Concept of Designing & Construction
- Module 3: Motor & Battery
- Module 4: Solar & Charging System
- Module 5: Assembly of Components
- Module 6: Remote Control System
- Module 7: Testing
- Module 8: Team Building/Team Working

**TRAINING PARTNER :**



[www.aoaonline.com](http://www.aoaonline.com)

# TENTATIVE SCHEDULE OF EVENT

The event timeline has been carried out after considering the exams of several schools in different states.



**REGISTRATION** 1<sup>st</sup> Jul - 15<sup>th</sup> Sep 19

**KIT REGISTRATION** Till Oct 19

**ONLINE TRAINING** Before Oct 19

**REGIONAL ROUND** Till Dec 19

**FINAL ROUND** Apr 2020



# REGIONAL & FINAL EVENT

## Regional Round:

Regional Round is a one day event where registered school teams will come with designed & fabricated solar cars to their selected centre (Engineering College/Institute/University). Teams will compete in various static and dynamic rounds throughout the day. Qualified teams of each region are eligible for the final round that will held in Delhi (April 2020)

## Rounds in Regional Stage:

### 1. Static Round:

Design & Innovation Presentation

### 2. Dynamic Rounds:

Rapid Run | Crux Run | Terrain Test | Longevity Round

*Qualified Teams from each regional round will be eligible for final round.*

## Final Round:

This is the final event in which 600+ selected school teams after winning their regional round will compete with their solar car in various static and dynamic rounds in Delhi-NCR

## Rounds in Final Stage:

Peak Power | Round the Sun | Longevity Round

TOTAL PRIZE MONEY

**1 CRORE +**

## AWARDS FOR EACH REGIONAL ZONE

	CHAMPION	-	INR 15,000
	1 <sup>ST</sup> RUNNER UP	-	INR 10,000
	2 <sup>ND</sup> RUNNER UP	-	INR 5,000
	BEST RAPID RUN	-	INR 3,000
	BEST CRUX RUN	-	INR 3,000
	BEST TERRAIN TEST	-	INR 3,000
	BEST LONGEVITY ROUND	-	INR 3,000
	BEST PRESENTATION	-	INR 3,000
	BEST DESIGN	-	INR 2,500
	LIGHTEST WEIGHT	-	INR 2,500
<b>TOTAL</b>		-	<b>INR 50,000</b>

## AWARDS FOR FINAL ROUND

	CHAMPION	-	INR 2,00,000
	1 <sup>ST</sup> RUNNER UP	-	INR 1,00,000
	2 <sup>ND</sup> RUNNER UP	-	INR 50,000
	BEST PEAK POWER	-	INR 50,000
	BEST ROUND THE SUN	-	INR 50,000
	BEST LONGEVITY ROUND	-	INR 50,000
<b>TOTAL</b>		-	<b>INR 5,00,000</b>