

Organized by



SEVC-2023



SOLAR ELECTRIC VEHICLE CHAMPIONSHIP

"Emerging Future Mobility"



Event Information Document

www.sevc.in

ABOUT EVENT

“Emerging Future Mobility”

SEVC (Solar Electric Vehicle Championship) is a National level electric vehicle design competition aimed at training engineering students with practical knowledge of recent technologies in engineering domain. At this event, students will form an interdisciplinary team of enthusiastic students to build an electric vehicle from the beginning. In addition to vehicle manufacturing, the team is also working on many industry-level reports. Participation in SEVC will enhance the technical skills of the students paving way for their professional success. Also, students will improve themselves in many areas like team coordination, managerial skills, business development, financial management and entrepreneurship.

Battery Electric Vehicle



Solar Electric Vehicle

“For most of history, humans have had to fight nature of survive; in this century, we beginning to realize that in order to survive, we must protect nature”. – Jacques Yves Cousteau

Increased-levels of pollution and global warming has made it so important to transform ourselves into eco-friendly transportation.



With the vision of protecting mother nature, our event encourages the participating student teams to create their own **Battery Electric Vehicle (BEV)**. In this journey, students will learn various aspects of design and fabrication including recent technologies related to battery, BMS and so on. This is the first category of SEVC 2023.

“The sun with all those planets revolving around it and depending on it, can still ripen a bunch of grapes as if it had nothing else in the universe to do”. – Galileo Galilei

Incorporation of renewable energy resources in the electric vehicles can provide humanity an extra-edge in protecting and preserving nature. This resulted in the second category of SEVC, namely, Solar Electric Vehicle (SEV), in which teams can use solar panels on their vehicles in order to charge their battery. This might provide an extended range for the vehicles and effective utilization of energy. The concept of SEV will also plant the seed of creating next generation automobiles.

Category 1: Battery Electric Vehicle (BEV)

Category 2: Solar Electric Vehicle (SEV)

Teams can choose any one of the above-mentioned categories to build their vehicle for **SEVC 2023**.





VISION

- Educate, impart knowledge and create a multi-dimensional thinking for students to develop innovative concepts and make them excel in their domain.
- To establish an eco-friendly means of transportation by the incorporation of future concept electric vehicles.



MISSION

- Conduct events with innovative concepts satisfying society needs. Make them learn through practical approach. Create Opportunity for students to get placed in their desired fields.
- To train and equip students with industrial level technical knowledge making them sound professionals enabling them to contribute to the development of our nation.



ABOUT US

“Creating Green Mobility”

Solar Electric Vehicle Championship (SEVC) is conducted by the collaboration of two societies, **Hindustan Innovative Product Development Society (HIPDS)** and **Society for Science, Technology, Management and Humanities (SSTMH)**.

Hindustan Innovative Product Development Society (HIPDS)

Hindustan Innovative Product Development Centre is a space for new age entrepreneurs and young minds to transform their innovative ideas into viable business propositions. This Incubation Centre was approved by the **Ministry of Small and Medium Scale Enterprises (MSME)**, Govt. of India, New Delhi to implement the scheme of “**Entrepreneurial and Managerial Development of SMEs through Incubators**”. Incubation Centre will provide technological assistance to incubates which will be generated through mentors with multidisciplinary expertise. HIPDC will be a startup hub offering infrastructure of co-working spaces and full-spectrum business resources including hiring assistance, legal assistance and seed money.



Society for Science, Technology, Management and Humanities (SSTMH)

SSTMH is a National Level society, registered under the Society's act from Govt. of Karnataka with an aim to **nurture & develop researchers, technocrats, Entrepreneurs and Business leaders** globally to serve the needs of humanity. Society further has the vision to be renowned internationally in Science, Technology, Management and Humanity by serving the needs of Industry and Institutes through Educational Programs, Industry interactions, Entrepreneurship development, innovation and incubation.



GENERAL GUIDELINES

SEVC Event focuses on providing a platform for vehicle designing under a well-monitored structure.

The following are the guidelines:

a) Event Timeline:

S.No	Description	Tentative Timeline
1	Event Launch	Sep 04, 2022
2	Start of Registration	Sep 04, 2022
3	Release of Technical Rulebook	Oct 15, 2022
4	Close of Phase – 1 Registration	Oct 31, 2022
5	Workshop / Internship (Design and Analysis of Electric Vehicle)	Oct 2022- Jan 2023
6	Rulebook + General Engineering Test	Nov – Dec 2022
7	Virtual Event Report Submission	Dec 30, 2022
8	Virtual Round	Jan 1 st week 2023
9	Vehicle Readiness	Feb 01, 2023
10	Event Reports Submission	Feb 20, 2023
11	Dynamic Event	Mar 01-05, 2023

**** The above-mentioned dates are tentative and subjected to change. ****



b) Team Requirements:

Team Size		
Team Members	5 [Minimum]	30 [Maximum] (For All Boys Team) 35 [Maximum] (For teams inclusive of Girl Participants)
Faculty Advisor	1 [Maximum]	

- Teams registering for SOLAR ELECTRIC VEHICLE CHAMPIONSHIP (SEVC) must have a *Team Name* and *Team Captain*.
- There is no limit on the number of teams that can participate from one college/University. But the team's name, logo, Captain, Vice-Captain and Faculty advisor should be exclusively separate for each team.
- Teams can have maximum of 35 members if and only if they have at least 5 or more girl participants. Otherwise, team strength is limited to 30 members.
- Teams are encouraged to choose members from various engineering disciplines like Mechanical, Electrical, Electronics, Instrumentation, etc., as building an electric vehicle requires the support of several departments.



c) Eligibility:

- Students pursuing an undergraduate program in any engineering discipline at any registered College/University can form a team to participate in SEVC.
- Team must have Two drivers with a valid government-issued 4W (Four-Wheeler) driving license.
- Each team member and faculty advisors must have completed the **Covid vaccination, both 1st and 2nd dose, by the time of dynamic event.**

d) Registration Procedure:

I. Form filling

- Teams shall do their initial registration in the link provided below:
<https://forms.gle/Ax1f7YjQf59pB2tf9>
- It is mandatory to have an official team mail id to register for the event. Personal student or faculty mail id will not be considered valid.
- After initial registration, teams will receive a confirmation mail from our registration committee. For further updates, check your team mail frequently.



II. Fee Structure

- Total registration fee for SEVC - 2023 is ₹ 45,000/-
- Fee payment stages

Phase	Registration Fees for Team (Registering before 31 st of October) (₹)	Registration Fees for Team (Registering after 31 st of October) (₹)
1	5,000	5,000
2	15,000	20,000
3	20,000	20,000
Total	40,000	45,000

- Teams can also pay the entire registration fee as single payment if they are comfortable with it.
- Teams have to do their Phase I Registration before 31st of October to claim the fees of Rs. 40,000/-

III. Registration fee payment and Confirmation

- Teams are instructed to fill the phase registration forms along with the completion of payment as per the guidelines sent in the confirmation mail.
- Teams must upload a copy of the payment proof, in the respective registration form itself.
- Confirmation mail will be sent after the verification of payment.



IV. Contact Us

Registration	+91-8148073826	sevcevent2023@gmail.com
Queries	+91-8148093826	
Technical support		
Reports		



V. Award details

Award	Solar Vehicle Category	Electric Vehicle Category
Dynamic Awards	Winner – SEVC 2023	
	I Runner Up – SEVC 2023	
	II Runner Up - SEVC 2023	
	Dynamic Champion	Dynamic Champion
	Endurance Winner	Endurance Winner
	Solar Endurance Winner	Load Haul Winner
	Hovering & Drag Winner	Hovering & Drag Winner
	Maneuverability Winner	Maneuverability Winner
	Acceleration Winner	Acceleration Winner
	Durable Vehicle	
	Motor Man Award	
	Static Awards	Virtual Round Winner
Static Champion		
Design Award		
Lightest Vehicle		Lightest Vehicle
Build Quality Award		
Future Startup Award		
Optimum Cost Award		
Innovation Award		
Appreciation Awards	Team Spirit Award	
	Inspiring Faculty Award	
	Best Captain	
	Femina Award	
	Shutter Bug Winner, I st Runner Up and II nd Runner Up	
	Trending Team Award	
Surprise Awards (Will be revealed in final event)		



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