



# REGISTRATION BROCHURE

AN INDIAN SOLAR CHALLENGE

ORGANIZED BY:



CO-ORGANIZED BY:



RECOMMENDED BY



# INVITATION

On the behalf of Imperial Society of Innovative Engineers -ISIEINDIA [A National Youth Award 2015-16 Winner, Accredited with FMSCI (Ministry of Sports), Supported by Ministry of New and Renewable Energy, MNRE, Govt. of India, we are glad to invite your institute's student team to contribute to Nation's E-Mobility Mission through participation in Asia's Biggest Electric-Solar Vehicle Design and Rally Event: "ESVC-ELECTRIC SOLAR VEHICLE CHAMPIONSHIP ". Hence we invite your institute to register for the same.

ESVC was emphasised by Ministry of Heavy Industries and Public Enterprises and various Automotive OEM's at Launching Ceremony of ESVC -3000 in presence of Chief Guest Shri. Arjun Ram Meghwal (Minister of State, Heavy Industries and Public Enterprises), Guests of Honour Dr. Reji Mathai (Director, ARAI), Dr. Arun Jaura (Managing Director, Michelin), Mr. Sohinder Gill (Director General, SMEV), Mr. Chris Selwood A.M. (Event Director, BWSC) and Special Guests for the ceremony Mr. Ashutosh Jha (Head, OEM Business for India and SAARC Countries), Mr. Venugopal Rao Nellutla (President, ETO Motors), Mr. Vineet Kumar Singh (General Manager, MG Motors India), Mr. Raghav Mittal (Editor, ReThink India), Mr. Sumantra Barooah (Executive Editor, Auto Car Professional).

ESVC has successfully showcased futuristic research projects which were appreciated by PMO India, DG of ONGC and Delegates from 22+ Countries during GES & GMX New Delhi.

## Event Schedule:

**Event Registration:** Open ([www.esvc.in](http://www.esvc.in))  
**Online Mentorship:** June 2022  
**Final Round:** October, 2022

We hope that your student team along with faculty will be able to join us for this unique opportunity to strengthen the role of E-mobility in India.

Thank you!

Best Regards,  
Mr. Vinod K. Gupta,  
President -Imperial Society of Innovative Engineers (ISIE).  
Ph. 020-4538457/58 | E-mail: [electricsolarvehicle@gmail.com](mailto:electricsolarvehicle@gmail.com)  
Website: [www.imperialsociety.in](http://www.imperialsociety.in) | [www.esvc.in](http://www.esvc.in)

# ABOUT ORGANIZER

## ORGANIZER



ISIEINDIA is the most popular and favorite E-mobility Motor sports, Education and Research Publication organization in India among engineering institutes and green energy research organization. ISIEINDIA has become one of the epicenter of green energy concept development in India. We are motivating people (Engineers + Future Engineers) to work on New and Renewable Sources of Energy. We provide the platform to new start-ups, Innovative ideas and passionate people, who really want to contribute to society.

We are giving our innovative services to more than 50,000 + peoples. Our services and product have been appreciated and noted by delegates from 22 countries. We are an associate member of FMSCI and SFI International. We have been awarded by National Youth Award by Ministry of Youth Affairs, and recommended by Ministry of New and Renewable Energy. ISIEINDIA is the 1st society in India which is motivating engineering students to work on commercial green Mobility.

### ASSOCIATED WITH



### ENDORSED BY



### RECOMMENDED BY



### INDUSTRY PARTNERS



SINCE 2013

**25** K+ YOUTHS AND PROFESSIONALS PARTICIPATED

# ABOUT ESVC

Electric Solar Vehicle Championship (ESVC) is Asia's largest solar challenge initiated by Imperial Society of Innovative Engineers (ISIEINDIA) in 2013. Being the oldest E-Mobility Design and Development challenge in India, it has provided platform to passionate and innovative minds across the nation.

The rules and regulations of this event is revised each year in order to push the limits and boundaries of electric mobility, and solar energy to efficiently run the vehicle.

We aim to build the society's interest in renewable energy, electric mobility and generate skilled engineer and entrepreneurs of New India. We have categorized and laid rules and regulations for participants from different walks of life – school students, graduation/ post-graduation students and professionals.

To draw the interest of Engineering students and professionals towards the New and Renewable Energy Project & Electric Mobility.



To develop Technological Concept of cost efficient and safe Solar Vehicle.

To fill the skill gap between institutes and industry.



To develop an Eco-system for the entrepreneurs.



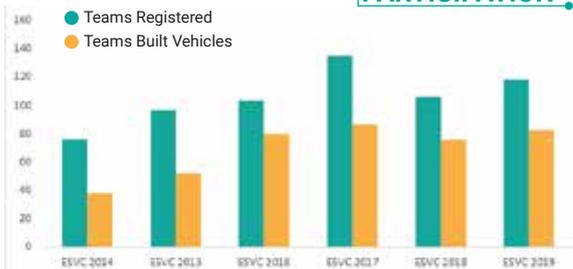
To increase application of Solar Energy.



Awareness among people and society and dismiss misconception about EV and renewable energy.



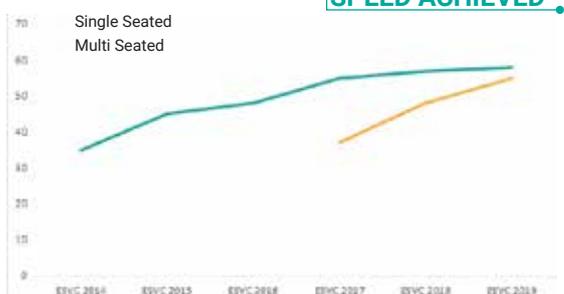
## PARTICIPATION



# 08 YEARS

## 22 STATES | 540 TEAMS

## SPEED ACHIEVED



- 🌐 Creating Awareness
- 🌐 Entrepreneurship
- 🌐 Promote Make in India

- 🌐 Women Empowerment
- 🌐 Technology and Innovation

# ABOUT ESVC

## ADVISORY COMMITTEE



**SHRI ARJUN RAM MEGHWAL**  
Hon'ble Minister of State  
Ministry of Parliamentary Affairs



**SHRI ANIL SHRIVATSAVA**  
Pr. Advisor and DG, DMEO  
NITI AAYOG



**PROF. ANIL D SAHASRABUDHE**  
Chairman,  
AICTE



**SHRI SOHINDER GILL**  
Director General  
SMEV



**DR. REJI MATHAI**  
Director  
ARAI



**SHRI ARINDAM LAHIRI**  
Chief Executive Officer  
ASDC



**MR. CHRIS SELWOOD**  
Event Director  
BWSC, Australia



**MR. VINOD GUPTA**  
President  
ISIEINDIA



**DR. K.C. VORA**  
Sr. Dy. Director and Head  
ARAI Academy



**DR. ARUN JAURA**  
Managing Director  
Michelin



**MR. ASHUTOSH JHA**  
Head OEM,  
Michelin India



**MR. VINEET SINGH**  
General Manager - Production,  
MG Motor



**MR. V.G. RAO NELLUTLA**  
President,  
ETO Motors



**MR. R.S. BAWA**  
Vice Chancellor,  
Chandigarh University



**PROF AMBARISH S. VIDYARTHI**  
Vice Chancellor,  
Bikaner Technical University



**MR. SUMANTRA BAROOAH**  
Associate Editor,  
Autocar Professional



**DR. M.V. UCHHAONKAR**  
Sr. Dep. Director & Head,  
HRMA, ARAI



**MR. CHARUDATTA MUKHEDKAR**  
General Manager  
ID, ARAI



**DR. ASHWINI SHARMA**  
Dean,  
ADAMAS University



**DR. MOHD. RAFIQ BABU AGREWARE**  
Manager,  
ARAI Academy, ARAI



**DR. YOGESH K BHATESHVAR**  
Asst. Faculty,  
ARAI Academy



**MR. AJAY ROPALEKAR**  
Manager,  
HRMA, ARAI

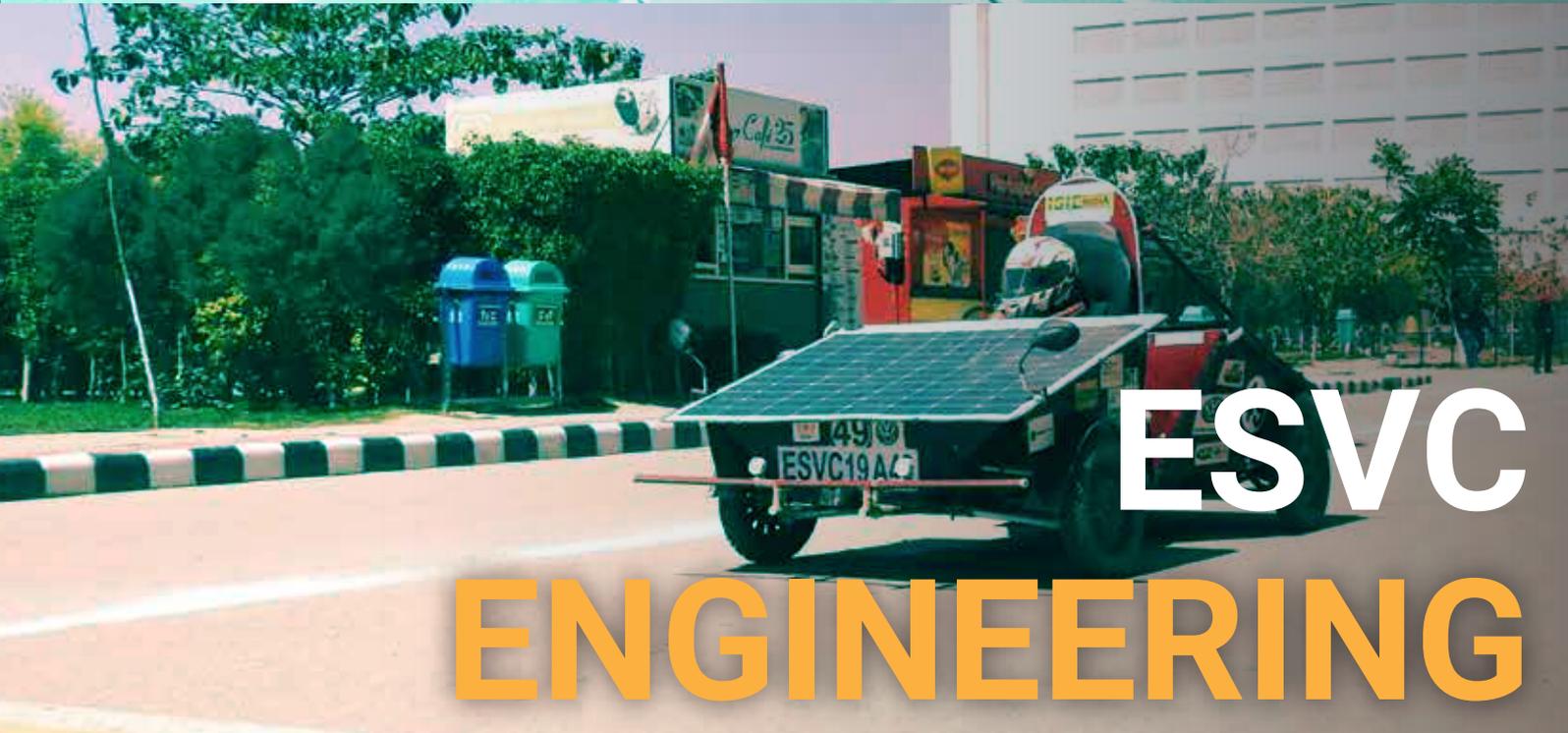


**MR. PRASHANT WARADE**  
Deputy Manager,  
ID, ARAI

## ORGANIZING COMMITTEE



# ESVC JUNIOR



# ESVC ENGINEERING



# ESVC 3000

# ESVC EVENT STATIC ROUNDS

Vehicle Electrical System Presentation

Cost and Manufacturing Presentation

Engineering Design Presentation

Business Plan Presentation

Innovation Presentation

# ESVC EVENT DYNAMIC ROUNDS



**Brake & Acceleration Test**



**Hill Climb Test**



**Solar Performance Test**



**Off Road Test**



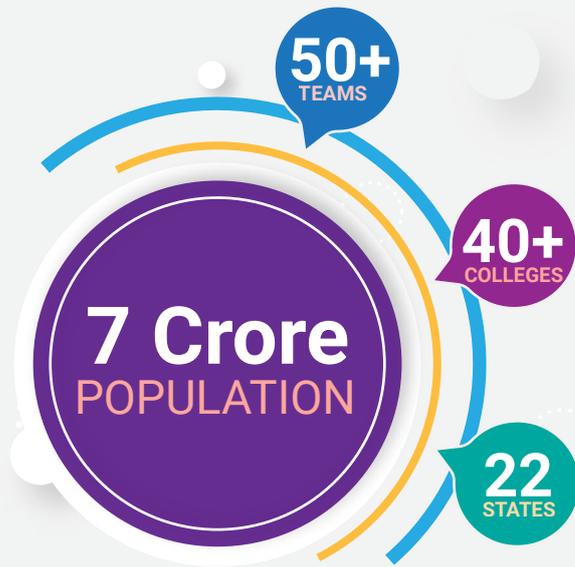
**Cross Pad Test**



**Autonomous Test**



**Endurance Test**



Electric Solar Vehicle Championship (ESVC) is Asia's largest solar challenge initiated by Imperial Society of Innovative Engineers (ISI/INDIA) in 2013. Being the oldest E-Mobility Design and Development challenge in India, it has provided platform to passionate and innovative minds across the nation.

The rules and regulations of this event is revised each year in order to push the limits and boundaries of electric mobility, and solar energy to efficiently run the vehicle.

We aim to build the society's interest in renewable energy, electric mobility and generate skilled engineer and entrepreneurs of New India. We have categorized and laid rules and regulations for participants from different walks of life – school students, graduation/ post-graduation students and professionals.



# EVENT IMPACT

- Promote E-Mobility**  
 One of the major roadblock in sales of EV is the range. This rally would be a way to spread awareness among the people that EVs are no longer the vehicles of short travel. These vehicles can make long distances in single charge, and the initial cost is high but the overall operating cost is much less than the conventional gasoline vehicle.
- Promote Renewable Energy**  
 As these vehicles are mounted with solar panels, this rally will also be promoting and talking about the renewable energy. Although yes the solar panels have been mounted in many villages for the street lamp, but this doesnt solve the power issues and demands of a household. We can make them understand the different ways in which it can be used.
- Realtime Innovations**  
 These vehicles are in two categories - adventure class and tourer class. The tourer class on one hand is single seated vehicle, whereas the adventure class is multi seated vehicle. These vehicle would have to cross various dynamic tests and thus they have to be reliable and safe in order to do so. Thus, these teams will be coming up with innovations.
- Improving Solar Technology**  
 These vehicle will leave in the morning completely charged. They cannot charge or charge their battery packs by any means other than solar or regenerative braking. Thus it gets essential for them to be able to harness this solar energy as much as possible.
- Minimising Skill Gaps**  
 The participants of this event will be working on real time problems and their solution, and build their vehicles in order to be able to face the challenge. This will give them the practical exposure and knowledge required in order to be able to work on the product for consumer and create a unique perspective on finding solutions as a part of skill india vision.
- Promote Entrepreneurship/ Startups**  
 We have seen that while working on projects like these, many students come up with new innovations and business ideas which could be feasible if provided the right platform. We provide them a platform to present themselves in front of investors and industrialists to prove themselves and gain that extra boost towards Atma Nirbhar Vision.

# REGISTRATION FEES

| NATIONAL TEAM | INTERNATIONAL TEAM |
|---------------|--------------------|
| INR 45,000/-  | USD 750 \$         |

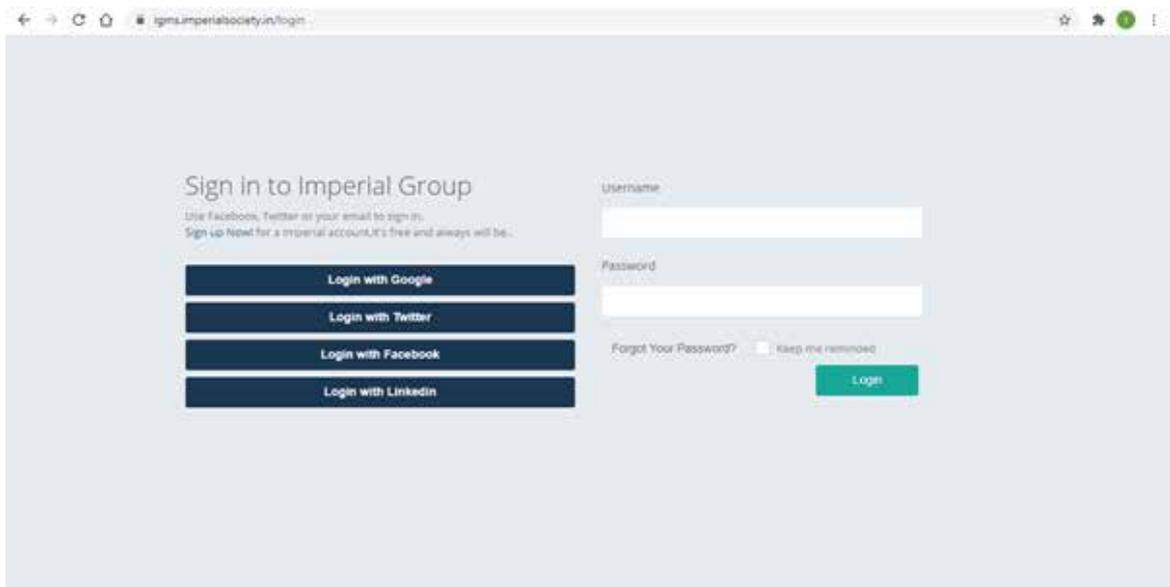


AWARD CATEGORIES

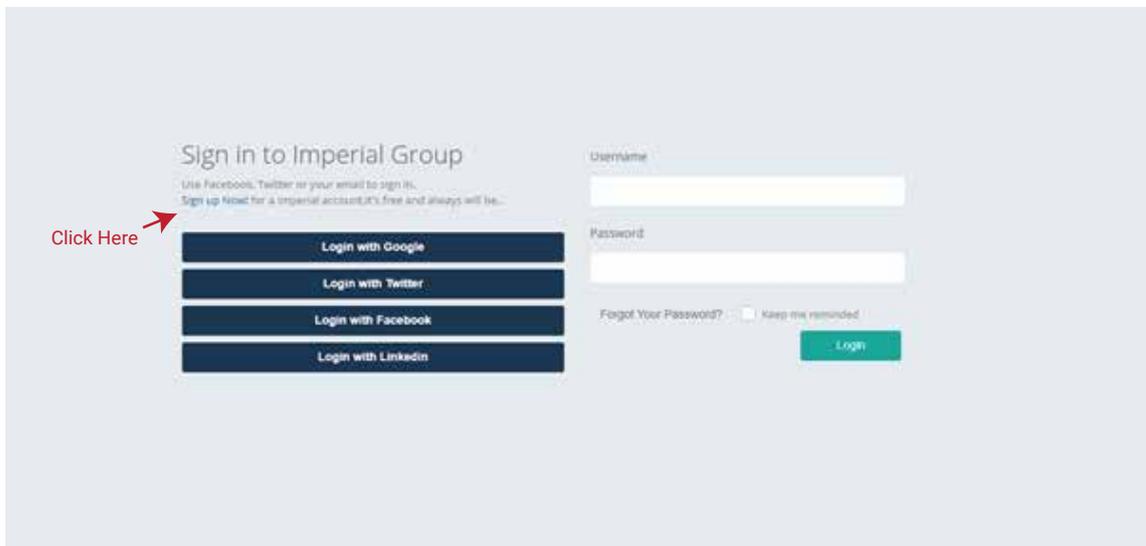
|  | Professional Class     | Adventure Class |
|--|------------------------|-----------------|
| Champion   | INR 1,00,000/-         | INR 1,00,000/-  |
| Runner Up  | INR 50,000/-           | INR 50,000/-    |
| Best Endurance                                       | INR 10,000/-           | INR 10,000/-    |
| Best Cross Pad                                       | INR 10,000/-           | INR 10,000/-    |
| Best Acceleration                                    | INR 10,000/-           | INR 10,000/-    |
| Best Hill Climb                                      | INR 10,000/-           | INR 10,000/-    |
| Best Solar Performance                               | INR 10,000/-           | INR 10,000/-    |
| Best Autonomous                                      | INR 10,000/-           | INR 10,000/-    |
| Best Vehicle Electrical System<br>Presentation Award | INR 20,000/-           |                 |
| Best Design Award                                    | INR 20,000/-           |                 |
| Best Innovations                                     | INR 30,000/-           |                 |
| Runner Up Innovations                                | INR 20,000/-           |                 |
| Best Business Plan and Cost Award                    | INR 30,000/-           |                 |
| Runner Up Business Plan & Cost                       | INR 20,000/-           |                 |
| Light Weight   | INR 10,000/-           | INR 10,000/-    |
| People's Choice Award                                | INR 10,000/-           |                 |
| Future Award   | INR 5,00,000/- (Worth) |                 |
| <b>Total Prize Worth</b>                             | <b>INR 10,90,000/-</b> |                 |

# REGISTRATION PROCESS - SIGNUP

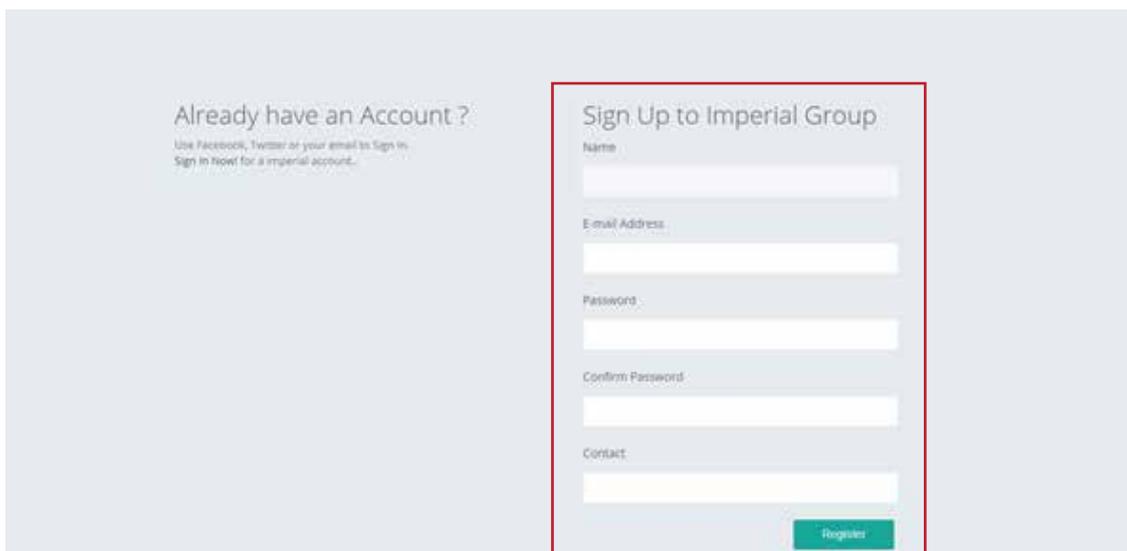
**Step 01:** Visit – <https://igms.imperialsociety.in/>



**Step 02:** Click on Sign up NOW!

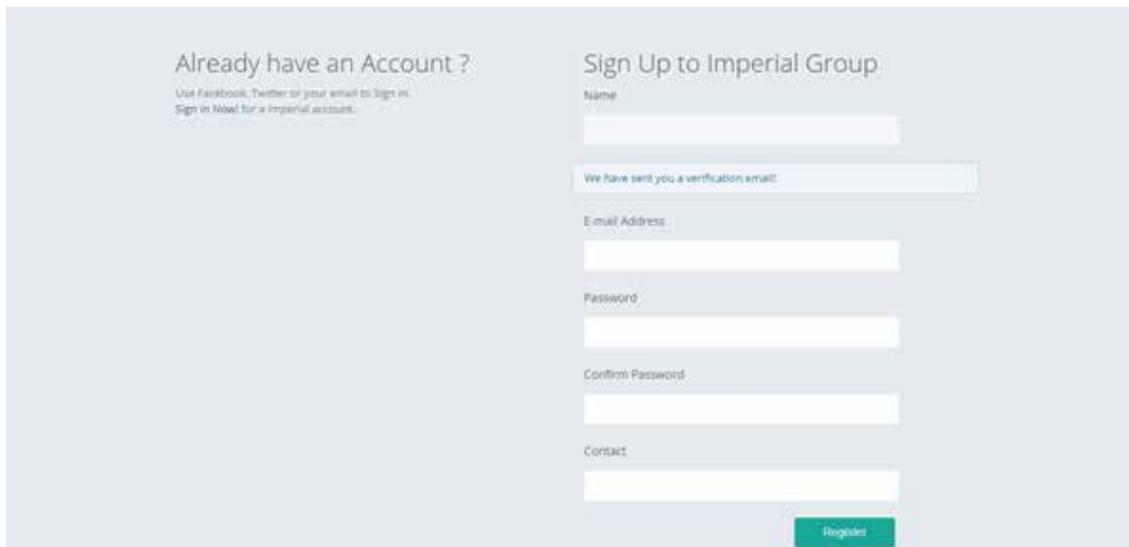


**Step 03:** Enter Details and Click on Register button



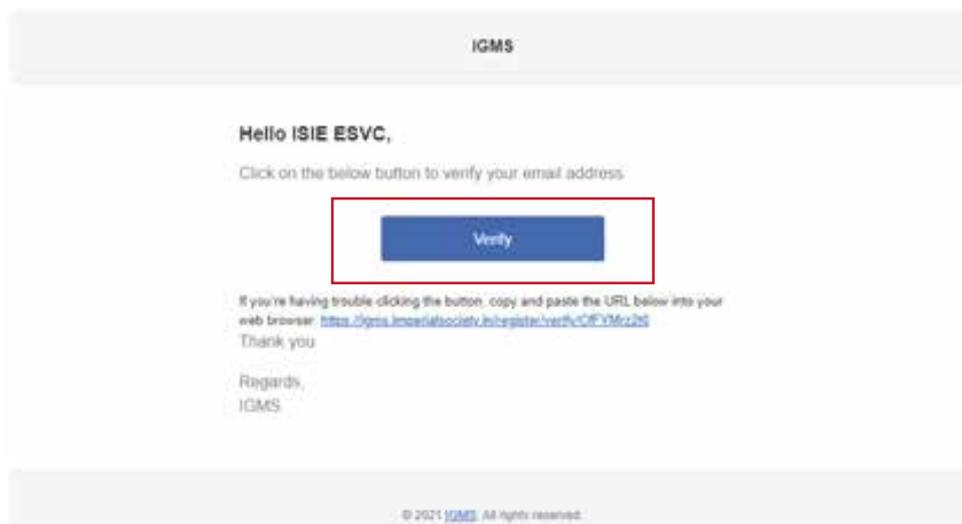
# REGISTRATION PROCESS - PAYMENT

**Step 04:** Now you will receive a verification mail on register mail ID

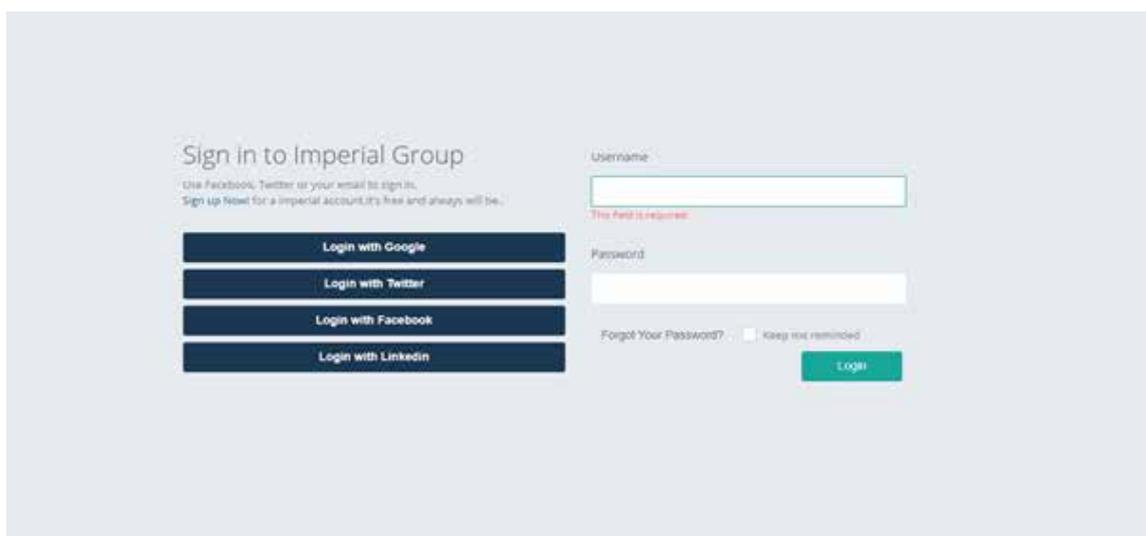


The screenshot shows a registration page for the Imperial Group. On the left, there is a section titled "Already have an Account?" with instructions to use Facebook, Twitter, or email to sign in. On the right, under "Sign Up to Imperial Group", there are input fields for Name, Email Address, Password, Confirm Password, and Contact. A "Register" button is located at the bottom right. A message above the email field states "We have sent you a verification email".

**Step 05:** Click on verify and it will redirect you to login page



**Step 06:** Enter your Login ID and Password and click on Login



The screenshot shows a login page for the Imperial Group. On the left, there are four buttons for social login: "Login with Google", "Login with Twitter", "Login with Facebook", and "Login with LinkedIn". On the right, there are input fields for "Username" and "Password". A "Login" button is at the bottom right. A "Forgot Your Password?" link is also present, with a checkbox for "Keep me reminded".

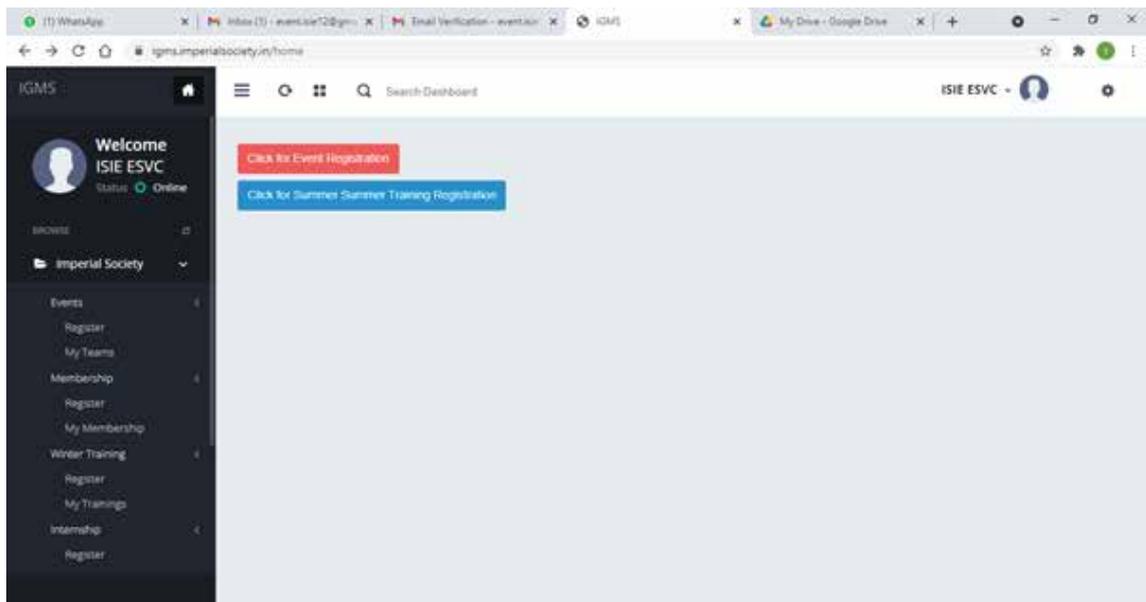
# REGISTRATION PROCESS

## TEAM REGISTRATION

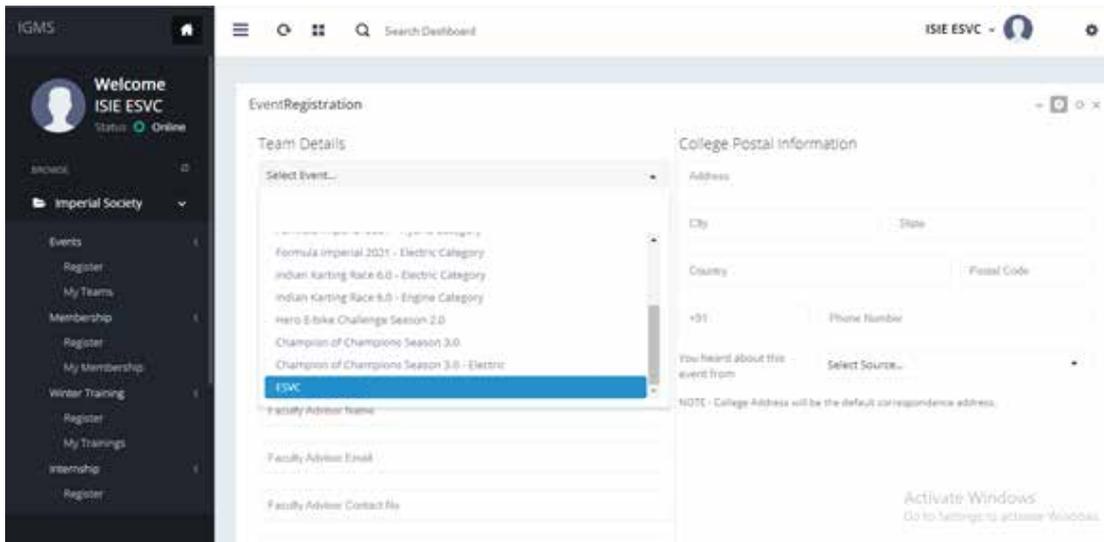
**Step 01:** Fill the required details viz. Basic Information, Communication Details and Qualification Details and Click on Save Profile

The screenshot shows the 'User Profile' registration form in the IGMS system. The form is divided into three sections: 'Basic Information', 'Communication Details', and 'Qualification Details'. The 'Basic Information' section is currently active and contains the following fields: 'Name' (filled with 'ISIE'), 'Alternate Email' (empty), 'Alternate Contact' (empty), 'Name' (filled with 'event.isie14@gmail.com'), 'Contact Number' (filled with '7428723984'), and 'Date of Birth' (empty). At the bottom of the form, there are 'Previous' and 'Next' buttons. A progress indicator at the top shows three steps, with the first step 'Basic Information' being the current step.

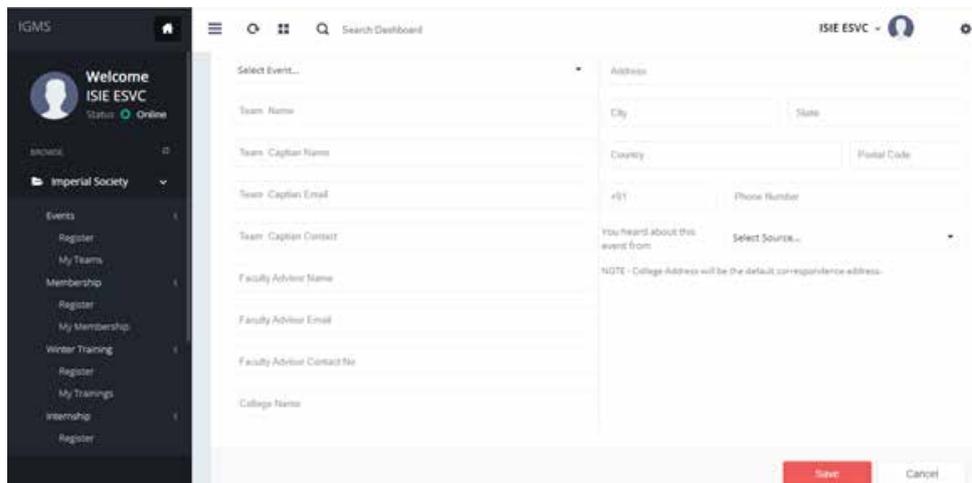
**Step 02:** Click on Button – Click for Event Registration



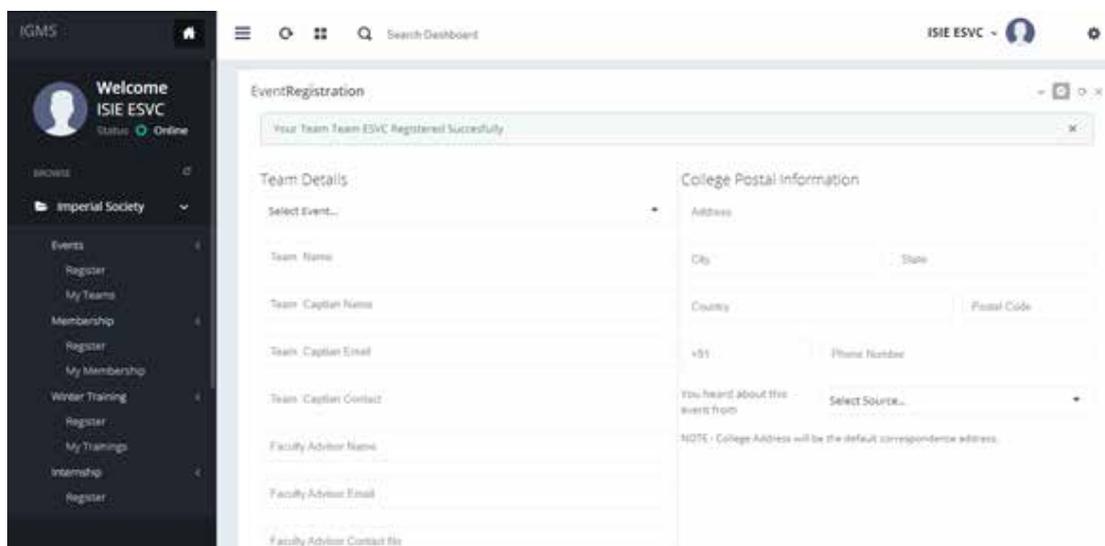
### Step 03: Select the event ESVC 2022



### Step 04: Fill the other required details and click on Save



### Step 05: You are done with the Registration





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

 [electricsolarvehicle@gmail.com](mailto:electricsolarvehicle@gmail.com)

 0120 - 4538457 | +91-7428723984