

# ELECTRIC SOLAR VEHICLE CHAMPIONSHIP-ESVC19

## Pre-Virtual Round

### Schedule & Course Content

S. No	Timing	Tentative Topics (Mechanical/EEE/ECE)	
1	9:00 AM-9:30 AM	Inauguration Ceremony of Pre-Virtual ESVC 2018 & Introduction to ISIE	
2	10:00 to 10:30 AM	Introduction to Solar-Electric Vehicles	
		Types of Solar-Electric Vehicles	
		Scope of Solar-Electric Vehicles	
3	10:30 AM to 1:00 PM	History of ESVC & Introduction to ESVC 2018	
		Various Round of Event (Final Event)	
		Brief Intro to Start-Up Summit	
		Brief Intro to International Conference on Eco-friendly Technology & E-Mobility	
<b>Lunch 1:00 PM to 1:40 PM</b>			
4	1:40 PM to 4:00 PM	Brief Intro to B-Plan & Cost Report	
		Brief Intro to Hr Meet & Sponsorship	
		Interaction Session on Rule Book	
		Safety & Risk Hazards	
5	4:00 to 5:30 PM	Team Formation	
		Gantt Chart	

### DAY 2

S. No	Timing	Mechanical/Auto/Design	Electrical/Electronics
1	9:00 Am to 12:00 PM	Material Selection Process	Electrical System Layout
		Manufacturing & Design Consideration	Tractive System and Connection
		Chassis Design (Solid works)	Electric Motor & Controller
		Use of Proper Pipes (Seamless)	Connection & Live Demo
		Welding Techniques	
2	12:00 PM to 1:00 PM	Usage of Standardized Part	Electric Vehicle Safety System i.e. Kill Switch, Brake over Travel Switch and other safety Features.
<b>LUNCH 1:00 PM to 1:40 PM</b>			
3	1:40 PM to 4:00 PM	Beam Simulation (Static/Dynamic)	Dry & Acid batteries
		Suspension Analysis ( Lotus Shark)	Battery Selection Process
		Suspension Points Calculation & Suspension Geometry	Accumulator Design
		Driver Ergonomics	Battery Level Indicator
		Selection of Tyre & Wheels	Accumulator Safety, Cooling System and Fire Wall
		Calculation	High Voltage and Wiring (Safety)
4	4:00 PM to 4:30 PM	Interaction & Doubt Session	Interaction & Doubt Session

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#### DAY 3

S. No		Mechanical	ELE
1	9:00 AM to 9:30 AM	Transmission System for ESVC Vehicle	Dash Board Design and attractive Features
2	9:30 AM to 10:30 AM	CVT (Guest Lecture)	Solar Cell ( Calculation)
3	10:30 AM to 12:15 PM	Steering (Theory & Calculation) Braking (Theory & Calculation)	Solar Panel Design and Fabrication Process
4	12:15 PM to 1:00 PM	Fiber Works (Glass Fiber/Carbon Fiber)	Demo Solar Panel Fabrication
<b>LUNCH 1:00 PM to 1:40 PM</b>			
5	1:40 PM to 3:00 PM	<b>Doubt Session</b>	<b>Doubt Session</b>
6	3:00 PM to 5:00 PM	<b>Rulebook Test</b>	<b>Rulebook Test</b>

For any doubt or suggestion, Mail on [electricsolarvehicle@gmail.com](mailto:electricsolarvehicle@gmail.com)

