



Shri Mata Vaishno Devi
University

TEAM CRAWLERS

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ELECTRIC ATV

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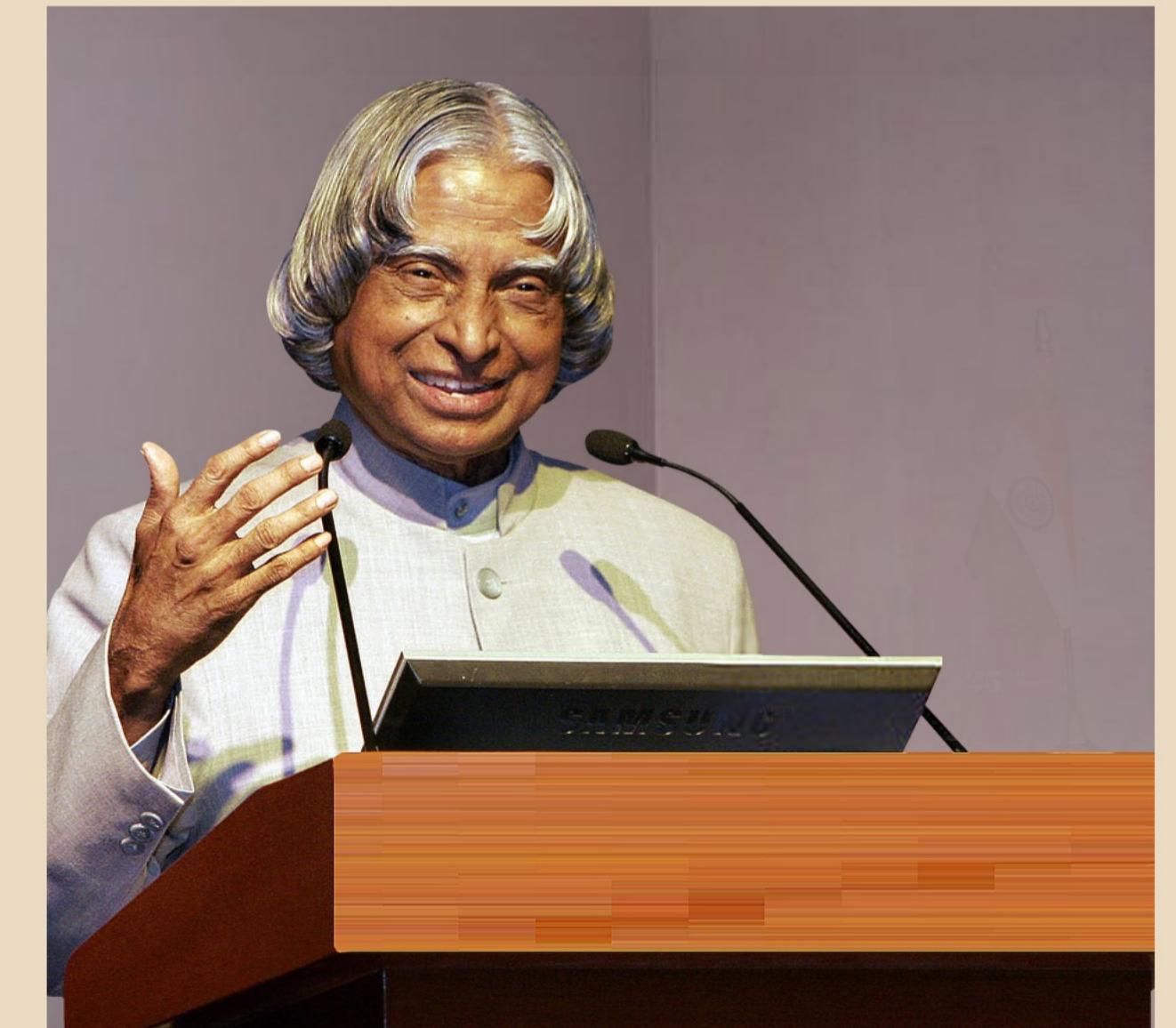
ELECTRIC



ABOUT UNIVERSITY



SHRI MATA VAISHNO DEVI UNIVERSITY IS A CENTRALLY FUNDED, UGC & AICTE APPROVED AND ONE OF PROMINENT COLLEGES IN NATION. IT OFFERS VARIOUS UNDERGRADUATE, POSTGRADUATE, AND DOCTORAL PROGRAMS IN ENGINEERING, MANAGEMENT, SCIENCE AND HUMANITIES. THE UNIVERSITY STARTED FUNCTIONING AS AN ACADEMIC UNIT IN AUG 2004 WHEN IT WAS INAUGURATED ON 19TH AUGUST 2004 AT THE HANDS OF THE THEN HON'BLE PRESIDENT OF INDIA DR. A.P.J ABDUL KALAM. DR. KALAM ALSO DELIVERED THE FIRST LECTURE TO THE STUDENTS OF THE UNIVERSITY.



BAJA SAEINDIA

THE BAJA SAE COMPETITION ORIGINATED AT THE UNIVERSITY OF SOUTH CAROLINA IN 1976, UNDER THE SUPERVISION OF DR. J. F. STEVENS. SINCE THEN, EVERY YEAR SAE HOSTS INTERNATIONAL EVENTS WHERE UNIVERSITIES FROM ALL ROUND THE GLOBE PARTICIPATE, PLACING THEIR SELF-DESIGNED VEHICLES TO SEVERE TESTING AS PER THE CHALLENGE INVOLVED

BAJA SAEINDIA 2025, THE 18TH EDITION OF THE COMPETITION, CONTINUES ITS LEGACY OF CONNECTING STUDENTS WITH THE MOTORSPORTS INDUSTRY, EVOLVING FROM MABAJA'S COMBUSTION ENGINES IN 2007 TO NOW FEATURING AUTONOMOUS AND HYDROGEN-FUELED VEHICLES. THIS EDITION, CONDUCTED IN THREE PHASES, INTEGRATES BOTH VIRTUAL AND PHYSICAL PLATFORMS, ATTRACTING OVER 190 TEAMS GLOBALLY. THE COMPETITION WILL TEST TECHNICAL AND PROFESSIONAL SKILLS THROUGH ONLINE AND DYNAMIC SIMULATION EVENTS, OFFERING A COMPREHENSIVE EXPERIENCE THAT ALIGNS WITH THE LATEST INDUSTRY TRENDS.



ACHIEVEMENTS



Governor flags off Team Mechanix from SMVDU for SAE-BAJA 2018

JAMMU BULLETIN NEWS

JAMMU, MAR 7:

Honorable Governor J&K Shri N.N. Vohra accompanied by Vice Chancellor of SMVDU Prof Sanjeev Jain, flagged off Team Mechanix Shri Mata Vaishno Devi University to SAE-BAJA 2018 to be held at IIT Ropar, Punjab, from 8th to 11th March, 2018. A team comprising of 25 students from School of Mechanical Engineering mentored jointly by Dr. R. K. Mishra, Assoc. Professor, School of Mechanical Engineering and Mr. Mir Irfan Ul Haq, Assistant Professor, School of Mechanical Engineering have fabricated an All Terrain Vehicle. The vehicle is having a total weight of 230 kgs and is equipped with Constant Variable Transmission System. The team representatives Shivam Yadav, Abhishek Kumar and Abhishek Shukla thanked the university authorities for the financial support and the external sponsors for the event which include SMVDU-TBIC, SMVDU Super-specialty Hospital and



Megapower. SAE BAJA is an annual event organized by the SAE INDIA (Society of Automotive Engineers) in which student from various colleges compete for designing an All Terrain Vehicle (ATV). This year around 420 colleges all over the country are participating in this event.

Head School of Mechanical Engineering Prof. D. B. Laata briefed all the dignitaries present on the ceremony about the SAE BAJA event. The faculty advisors thanked the university authorities, faculty members of the school, and the workshop staff especially Mr. Chandan Sharma for their efforts to make the project a success.

"OUR TEAM HAS SUCCESSFULLY CLEARED THE PRELIMINARY ROUND, INCLUDING THE QUIZ AND PRESENTATION, WITH HIGH MARKS, SECURING A STRONG RANK AMONG TEAMS NATIONWIDE. REPRESENTING THE UNION TERRITORY OF JAMMU & KASHMIR, WE ARE THE ONLY TEAM FROM THIS REGION, AND OUR UNIVERSITY HAS PROUDLY PARTICIPATED IN SAE MBAJA IN 2015 AND 2018."

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Rising Kashmir

SMVDU team qualifies virtual round of SAE BAJA-2018

Published at August 09, 2017 02:50 AM oComment(s)702views

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Rising Kashmir News

Jammu:

Team Mechanix of the Dept. of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra has emerged as the only team to qualify for the next stage from the Jammu & Kashmir and ranked under 50 among new teams in the SAE BAJA 2018. According to a spokesman, the team consisting of 25 members mentored by Dr. R.K. Mishra Associate Professor and Er. Mir Irfan-Ul-Haq Asst. Professor, was represented by five members Shivam Yadav (Captain, Steering Design), Abhishek Kumar (Vice Captain, Roll Cage Design), Abhishek Shukla (Manager, Suspension Design), Manish Kumar Singh (Transmission and Tyres) and Aditij Tandon (Core Team Member) for the Virtual Round in Chandigarh.

BAJA SAE INDIA gives engineering students an opportunity to showcase skills in designing four wheeled, single seater, all terrain automobiles.

These vehicles are evaluated on the basis of Static, Dynamic and Durability events taking into consideration design, cost, presentation, build quality, innovation, acceleration, maneuverability, hill climb, suspension, traction and endurance.

Promoted by Mahindra and Mahindra, BAJA SAE INDIA is the biggest automobile national-level intercollegiate event which takes place every year since 2007.

The spokesman said that this year, the organizer's received 388 entries, out of which 180 college have been shortlisted for conventional Baja and E-Baja.

SMVDU Team qualifies for BAJA SAEINDIA 2025 Virtual Round



REFUGEE MESSAGE BUREAU
JAMMU, AUG 1

Team CRAWLERS from SAE Club Under Board of Professional Activities of Shri Mata Vaishno Devi University has made a significant impact at the BAJA SAEINDIA 2025 Round-I, held on 20th July, 2024. Competing in the eBAJA category, the team outperformed numerous returning teams, demonstrating remarkable prowess and innovation. Pertinently, SMVDU's team is the only team from Jammu & Kashmir to participate in the final round of BAJA SAEINDIA 2025. The BAJA SAEINDIA competition, known for its rigorous standards and intense competition, challenges teams to design, build, and race an off-road vehicle that can withstand the harshest terrains.

and overall strategy. The CRAWLERS' outstanding performance is a reflection of their months of hard work, meticulous planning, and innovative thinking. The team, comprised of final-year engineering students, demonstrated not only technical proficiency but also a deep understanding of the principles of sustainable engineering, which is crucial in the eBAJA category focusing on electric vehicles. Dr. Mir Irfan Ul Haq, Assistant Professor, SME, the faculty advisors for the CRAWLERS, expressed immense pride in the team's accomplishments. "This is a phenomenal achievement for our students. Competing against experienced teams and securing a high score in the presentation round speaks volumes about their capabilities and commitment. We are

perform in the upcoming rounds." Team leader Mr. Divyansh Kale, highlighted the team's journey, stating, "Our journey to the BAJA SAEINDIA 2025 has been challenging yet rewarding. Our score in the presentation round is a reflection of our team's synergy and relentless effort. We are motivated to push our boundaries further and excel in the main event." With their eyes set on the finals, the CRAWLERS from Shri Mata Vaishno Devi University are poised to make even greater strides in the BAJA SAEINDIA 2025 competition, inspiring future engineers and reinforcing the university's commitment to excellence in engineering education.

Prof. Pragati Kumar (Vice Chancellor, SMVDU) conveyed his best wishes for the upcoming rounds and congratulated the team for their success. Dr. Yathesh Anand (Head, SME) also congratulated the team.

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Breaking News: Deadlock persists: no end to woes of 119 stranded people

Team Mechanix SMVDU qualifies Virtual Round of SAE BAJA-2018

Posted on 9/08/2017 by Dailyexcelsior

Excelsior Sports Correspondent

KATRA, Aug 8: Team Mechanix of the Department of Mechanical Engineering, Shri Mata Vaishno Devi University (SMVDU), Katra has emerged as the only team to qualify for the next stage from the Jammu & Kashmir and ranked under 50 among new teams in the SAE BAJA 2018.

The team consisting of 25 members mentored by Dr RK Mishra, Associate Professor and Er. Mir Irfan-Ul-Haq, Assistant Professor was represented by five members Shivam Yadav (Captain, Steering Design), Abhishek Kumar (Vice Captain, Roll Cage Design), Abhishek Shukla (Manager, Suspension Design), Manish Kumar Singh (Transmission and Tyres) and Aditij Tandon (Core Team Member) for the Virtual Round in Chandigarh.

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In the two day event held at Chitkara University, Chandigarh on July 13 and 14, 2017, the registered teams were scrutinized for their knowledge and capability to participate successfully in the main event to be held in 2018. In which Team Mechanix obtained 149 marks out of 200 (62.4 percent) in Design Presentation including viva and (86.6 percent) in extempore.

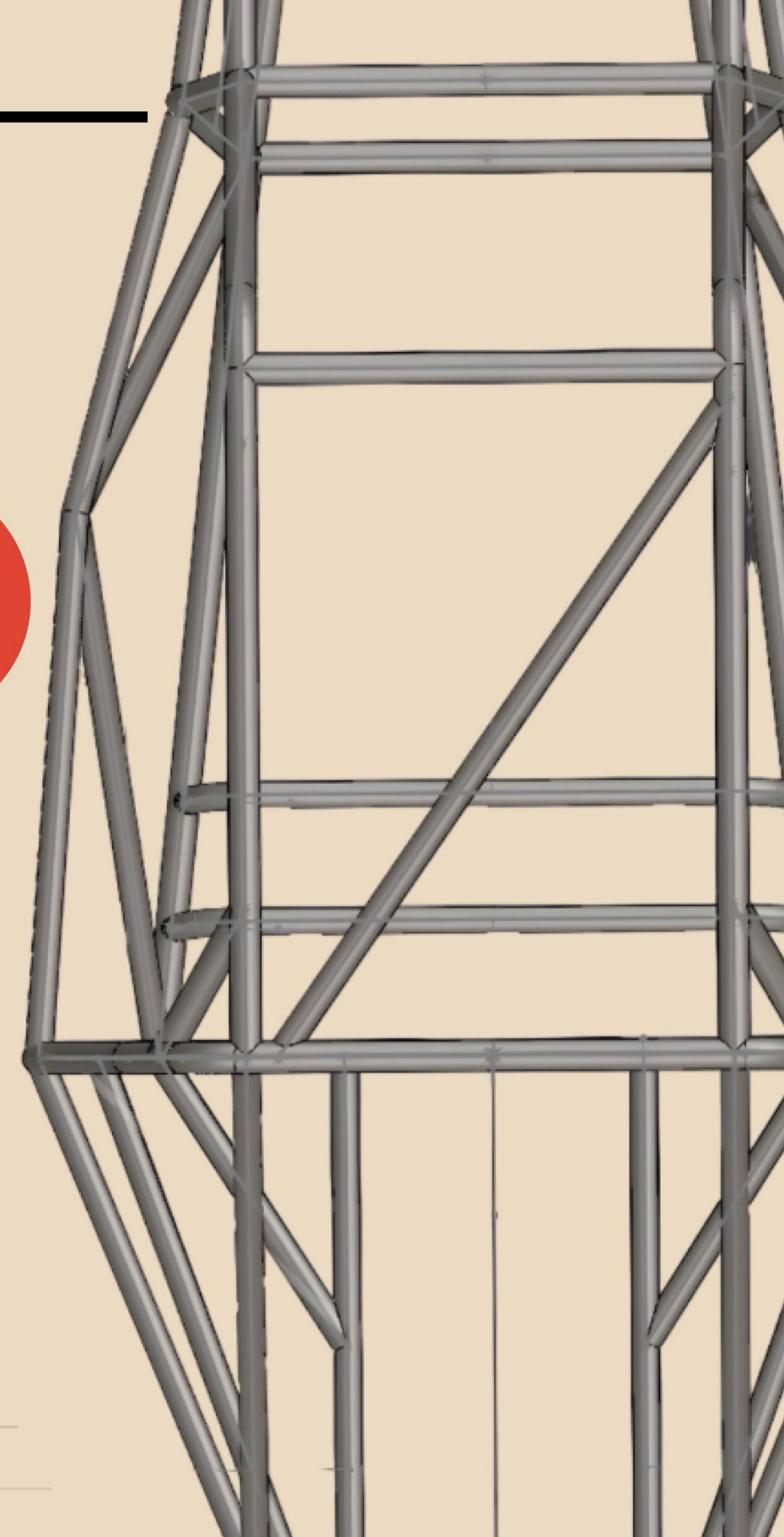
Based on the performance in Virtual BAJA, the team has been selected for participation in the main event to be held at IIT Ropar, Punjab or NATRIP, Pithampur near Indore. The event is being coordinated by the Automobile Club, Department of Mechanical Engineering.

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VEHICLE — SPECIFICATIONS

Properties	Specification
Vehicle Type	Electric
Vehicle Curb Weight	250 kg
Max. Speed	65 km/hr
Acceleration	5.77 m/s ²
Gradiability	77.78 %
Stopping Distance	6 m
Ground Clearance	330 mm
Roll Cage	AISI 4130 Chrome Moly Steel
Wheel Base	1430 mm
Suspension Type	Damper & Coil
Transmission Type	CVT & Single Stage Reduction Transmission
Break Type	Hydraulic Disc Brakes
Drive Train	Rear Wheel Drive
Steering Type	Ackerman



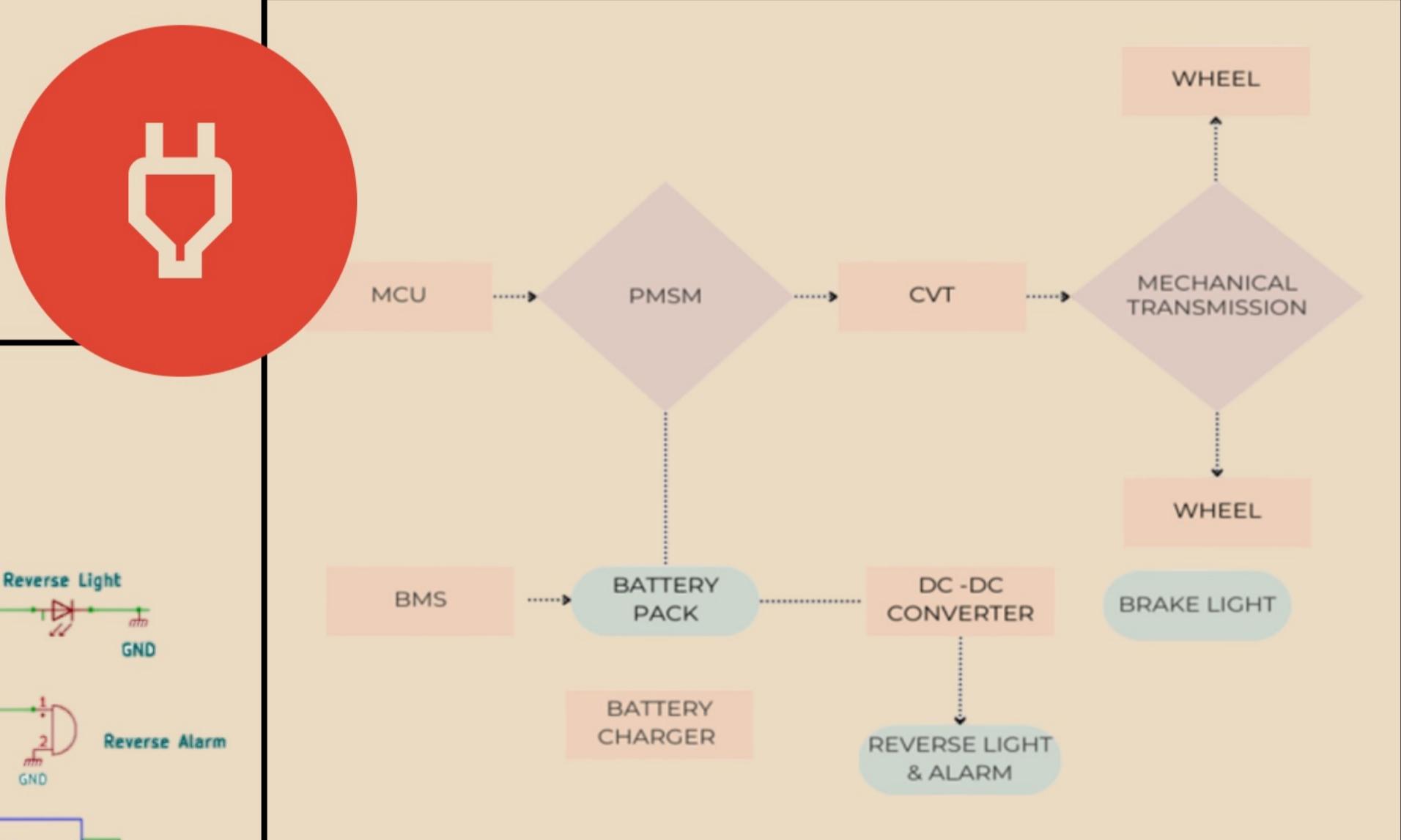
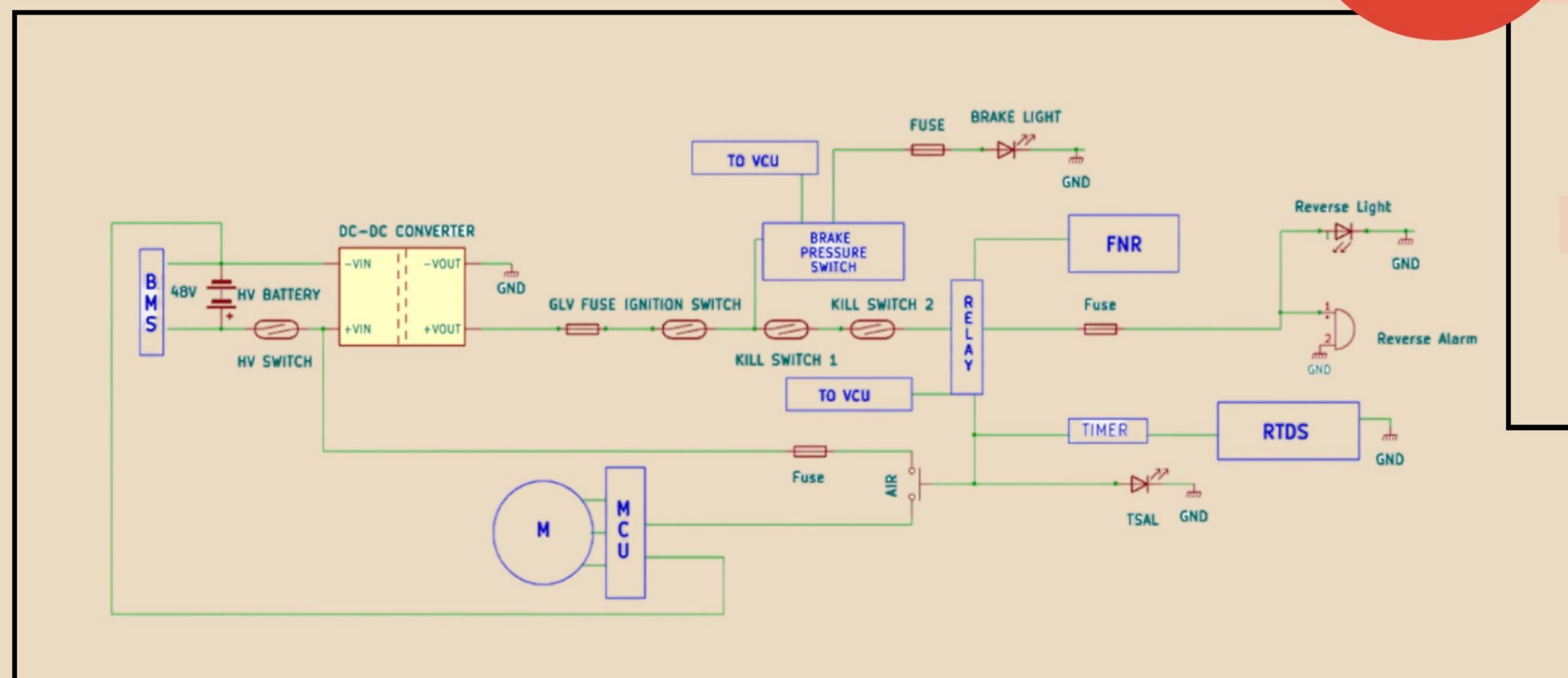
MOTOR CONTROL UNIT SPECIFICATION

Motor Type	PMSM
Motor Capacity	5 KW
Torque	25 NM
Peak Power	6.5 kW
Max Torque	57.90Nm

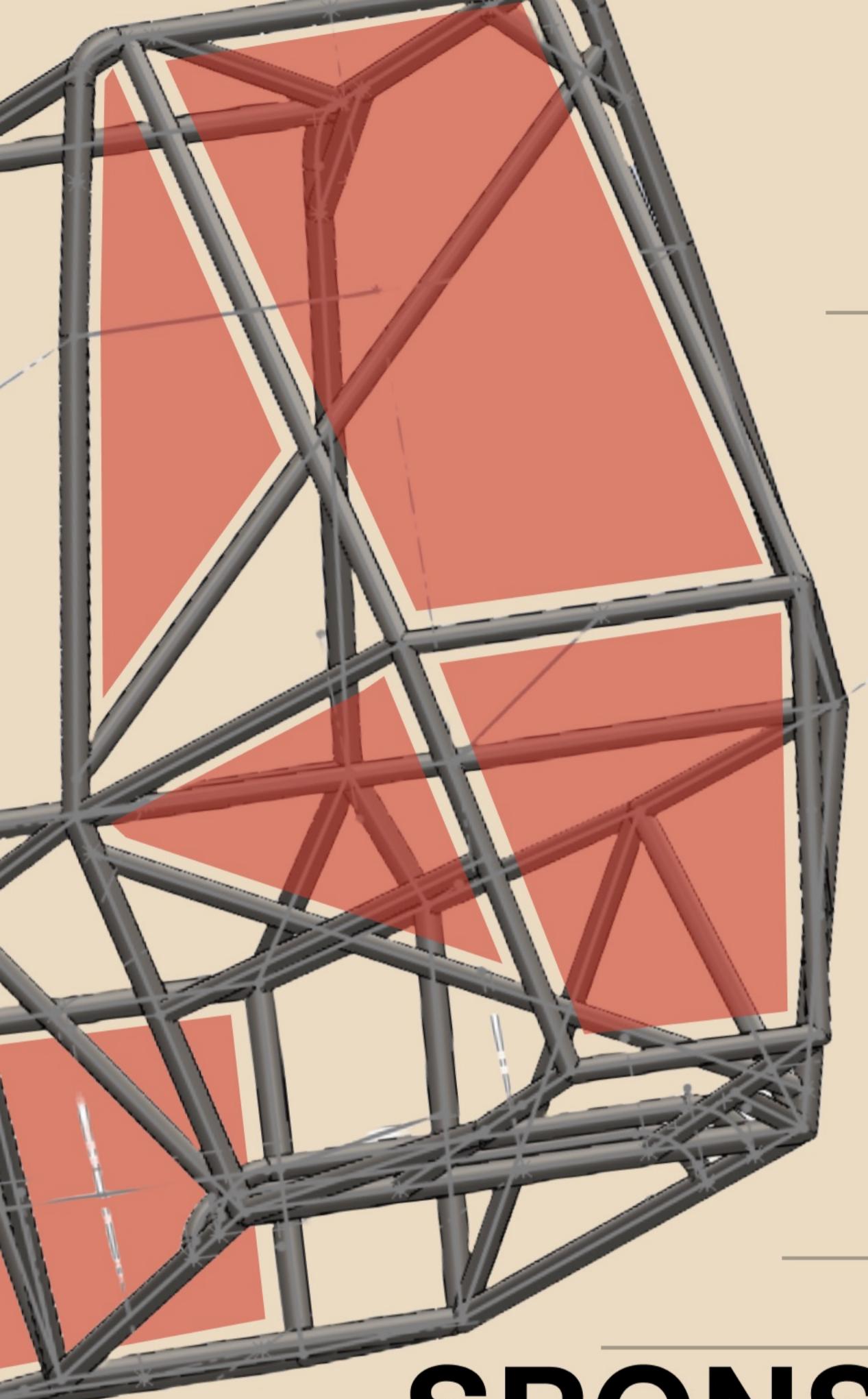
ELECTRICAL COMPONENTS & CIRCUIT DIAGRAM

BATTERY PARAMETER SPECIFICATION

Battery Configuration	13S & 24 P
Battery Capacity	48 V 120Ah
Battery Chemistry	Li - NMC



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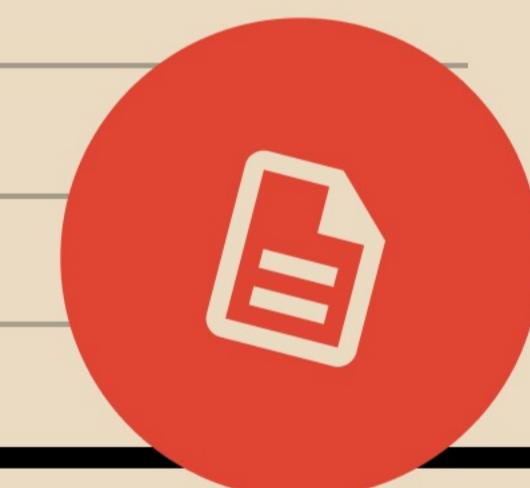


GRADES

PLATINUM ★	GOLD	SILVER
1 lakh +	50k - 1 lakh	Upto 50k

Title Sponsorship	✓		
Company based theme color	✓		
Publicity through media	✓		
Logo on team apparel	✓	✓	
Poster at Pit Stop	✓	✓	
Publicity through campus	✓	✓	
Logo on the team vehicle	✓	✓	✓
Enrollment as sponsor	✓	✓	✓
Website Promotion	✓	✓	✓
Team Magazine	✓	✓	✓
Print Media	✓	✓	✓

SPONSORSHIP NORMS

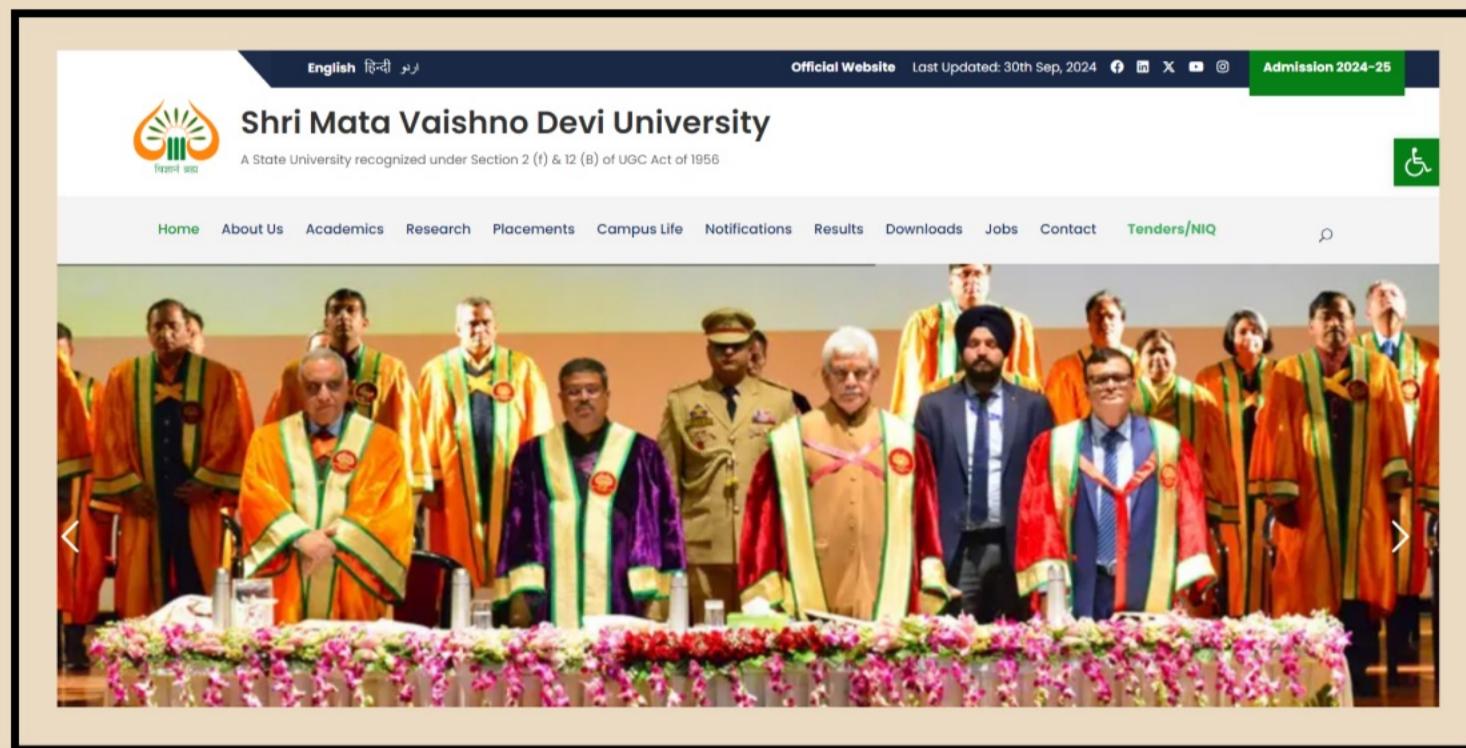


CHOICE WILL BE GIVEN IN CERTAIN NORMS TO THE PLATINUM SPONSORS

06

SPONSORSHIP BENEFITS

- MEDIA COVERAGE
- PROMOTION AT WEBSITE
- ATV'S COLOR SHALL BE BASED ON COMPANY THEME AND IT SHALL BEAR COMPANY'S LOGO
- YOUR LOGO ON TEAM SHIRT



Baja SAE India: Bridging the gap between industry and academia
Baja SAE India is a treat for the auto enthusiasts is an event that the industry closely monitors to keep a tab on new emerging talents.

By Ujal Nair | 22 Feb 2019 | 16154 Views

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A photograph showing a large number of small off-road vehicles (Baja SAE cars) lined up on a dry, open field, likely during a competition or exhibition. The vehicles are in various colors and designs.

AUTOCAR professional **TEAM-BHP.COM** **ThePrint**



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COMPONENT

PRICE

E - Kit

Lithium ion Battery Pack ₹ 1,59,650

Battery Charger ₹ 12,300

PMSM Motor Unit ₹ 67,700

Other E - Kit ₹ 54,300

Mechanical

Roll Cage Material ₹ 21,475

Steering Assembly ₹ 20,115

Wheel Assembly ₹ 51,200

Drive Train ₹ 1,57,390

Driver Kit ₹ 65,465

Suspensions ₹ 80,000

Other ₹ 3,23,705

Total ₹ 10,13,300

MATERIAL & COST BREAK-UP ESTIMATE



WORKSHOP FACILITIES

Machines and Shops

Lathe Machines

Drilling Machine

Grinding Machine

CNC Machines

Milling Machine

Shaper Machine

Welding Shop

Sheet Metal Shop



SPONSORSHIP OPTIONS

FINANCIAL SPONSOR

Since BAJA SAEINDIA is a capital intensive project, we welcome monetary sponsorship which will enable us to purchase material, tools and equipment.

PARTS AND MATERIAL SPONSOR

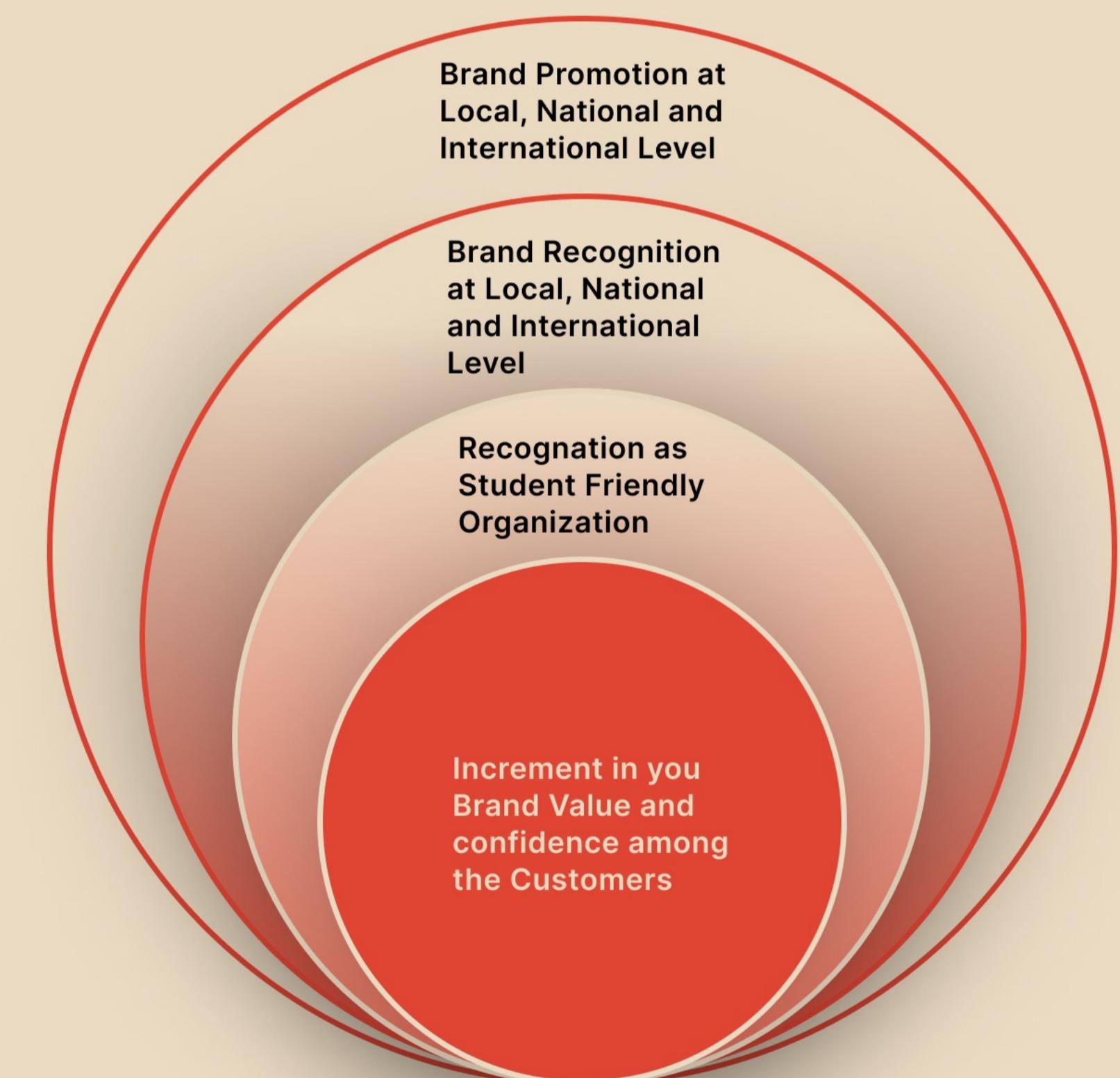
Our design often consists of standardized parts (wheels, steering, calipers etc.). Any part or material sponsorship will be beneficial to the project.

TRAVEL SPONSOR

As the Official Travel Sponsor your company will support the travel expenses of the team and the vehicle (from college to BAJA SAEINDIA virtual and main event sites).

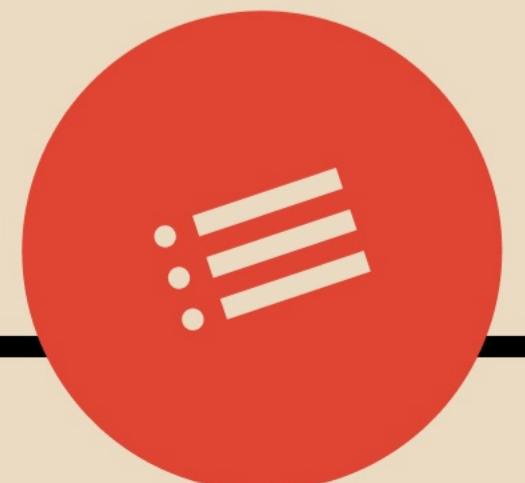
MISCELLANEOUS SPONSOR

We would be glad to receive any other forms of technical or non technical guidance and support . All such support shall be duly acknowledged at all occasions and venues.



EMINENT DETAILS

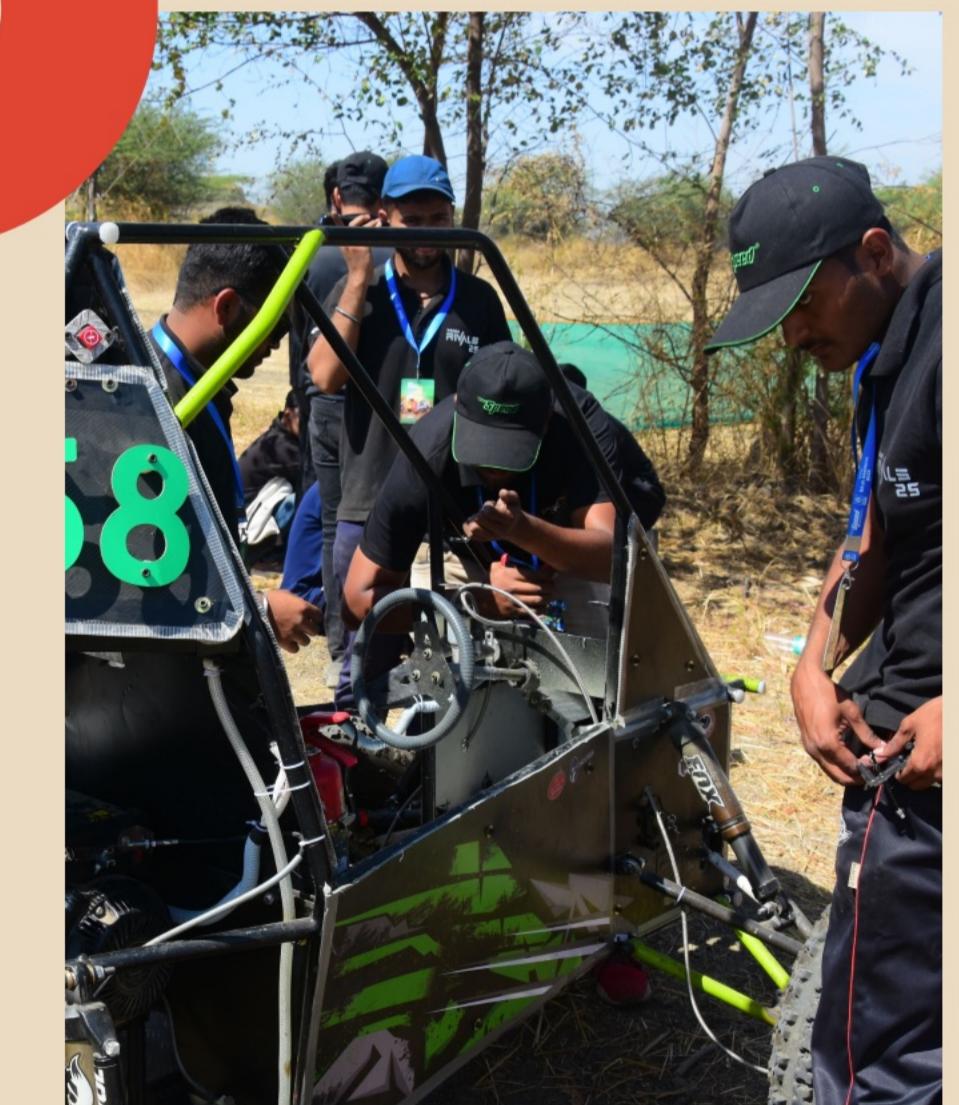
This event is enormously huge with large media coverage and a mass gathering of people having qualification ranging from local businessmen to technocrats .Last year, the Guest of Honor was Debashis Neogi, the Managing Director of Renault Nissan Tech. very pioneer in automobile field provide huge opportunity for the participating team and it's sponsors by giving access to interact with leading companies around the world.



RENAULT NISSAN
TECHNOLOGY &
BUSINESS CENTRE INDIA



INSIGHTS



We Trust That Our Marketing Brochure For SAE BAJA 2025 Has Provided You With A Comprehensive Understanding Of Our Team, Its Mission, Goals, And The Unparalleled Advertising Opportunities And Market Advantages We Can Offer. We Believe That A Robust And Prosperous Partnership With Us Could Present Your Company With Significant Opportunities And Powerful Marketing Tools.

The Relationship Established Through This Collaboration Is Intended To Be Enduring And Mutually Beneficial, Supporting Both Your Company And Ours In Achieving Our Respective Objectives.

We Look Forward To Fostering A Successful And Enduring Partnership With Your Company.

Faculty Advisors



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Thank you —



Brochure Designed By B.Design Students Of SMVDU



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**PROBLEMS
ARE NOT
STOP SIGNS,
THEY ARE
GUIDELINES**

Robert H. Schuller

