



SRKR AUTOMOTIVE CLUB



SRKR
ENGINEERING COLLEGE
AUTONOMOUS



SRKR GO KART CHAMPIONSHIP 2025

SEASON – 1

23 January 2025 to 26 January 2025



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SRKR GO-KART CHAMPIONSHIP

The SRKR Go-Kart Championship is a premier competition designed to cultivate creativity, innovation, and technical expertise among aspiring engineers. Hosted by SRKR Engineering College, this event provides teams with significant design autonomy, encouraging them to unleash their imagination in developing high-performance racing go-karts. Within the framework of essential guidelines, the competition actively challenges participants to push the boundaries of design, engineering, and performance, fostering a spirit of innovation and excellence in motorsport engineering.

OBJECTIVE OF THE CHAMPIONSHIP

The SRKR Go-Kart Championship challenges teams to function as engine development enterprises tasked with designing, constructing, and commissioning a prototype go-kart tailored for the non-professional racing market. Teams are expected to develop karts that excel in performance metrics such as speed, braking, handling, and structural integrity, while ensuring cost-effectiveness for weekend racers seeking excitement and reliability. This competition goes beyond evaluating technical skills, fostering critical thinking, innovation, and effective teamwork to bring ideas to life on the track. It is a platform where engineering expertise meets a passion for racing, culminating in a dynamic showcase of ingenuity and collaboration.



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EVENT SCHEDULE

DATE	SCHEDULE	TENATIVE TIME
23/01/2025	Opening Ceremony	10:00 AM - 12:00 PM
	Technical Inspection-1	11:00 AM - 05:30 PM
	Business plan presentation	02:00 PM - 05:30 PM
	Cost report presentation	
	Innovation	
24/01/2025	Design Evaluation	10:00 AM - 05:30 PM
	Technical Inspection-2	09:00 AM - 12:00 PM
	Business plan presentation	10:00 AM - 12:00 PM
	Cost report presentation	
	Technical Inspection-3	01:30 PM - 03:00 PM
	Brake test	02:00 PM - 05:30 PM
	Acceleration test	
25/01/2025	Design Evaluation	10:00 AM - 12:00 PM
	Brake test	10:00 AM - 11:30 PM
	Acceleration test	
	Skid pad test	11:00 AM - 05:30 PM
	Auto cross	
26/01/2025	Time Trail	10:00 AM - 11:00 PM
	Endurance	1:20 AM – 12:00 PM
	Price Distribution	1:00 PM - 2:30 PM
	Closing Ceremony	2:30 PM - 4:30 PM



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TEAMS PARTICIPATED

	TEAM NAME	COLLEGE NAME
01	Ashva	Anil Neerukonda Institute Of Technology And Sciences
02	Tenacion Riders	Vasireddy Venkatadri Institute Of Technology
03	Rudra	Vignan's Institute Of Information Technology
04	Juggernauts	Seshadri Rao Gudlavalleru Engineering College
05	Spark Racers	Swarnandhra College Of Engineering And Technology
06	Tachyon	Aditya University
07	Markandeya	SRKR Engineering College
08	Varaahi	SRKR Engineering College
09	Enigma	Raghu Engineering College
10	Enigma 2.0	Raghu Engineering College
11	Spartans	Aditya Institute Of Technology And Management



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JUDGE PANNEL

Mr. Akash Das	CEO of Renforcer Motorsports
Mr. Sagar Vyas	CEO of Hindustan Motorsports
Mr. Gaurav Singh Rathore	CEO of Vintage Vision
Mr. Devender Dayyala	Sr. Mechanical Engineer Singareni Collieries Company Limited
Mr. K Yeshwanth Reddy	Founder & CEO of Atom Motors
Mr. Raghuveer Chadalavada	Founder & CEO of Aurita Bikes
Mr. Kunal Kishore	Director of Koshi Motors & Fabrication Pvt. Ltd.



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PRIZE MONEY

Category		Prize Money
Overall Championship	Winner	40,000/-
	Runner – Up	30,000/-
	2 nd Runner – Up	20,000/-
Endurance	Winner	15,000/-
	Runner – Up	10,000/-
Acceleration Test	Winner	10,000/-
Brake Test	Winner	10,000/-
Skid Pad	Winner	10,000/-
	Runner – Up	5,000/-
Auto Cross	Winner	10,000/-
	Runner – Up	5,000/-
Time Trail	Winner	10,000/-
	Runner – Up	5,000/-
Best Design	Winner	10,000/-
	Runner - Up	5,000/-
Best Innovation	Winner	10,000/-
Best Business Plan	Winner	10,000/-
Best Cost Report	Winner	10,000/-



EVENT PROCEEDINGS

Inauguration Ceremony

The SRKR Go-Kart Championship 2025 commenced with an energetic inauguration ceremony held at the college auditorium on 23-01-2025. The ceremony was graced by the presence of **Sri S.R.K. Nishant Varma, Secretary cum Correspondent of SRKR Engineering College**, who emphasized the significance of practical engineering exposure and how competitions like this bridge the gap between theoretical learning and industrial applications.

The event began with the traditional lamp-lighting ceremony, symbolizing the ignition of knowledge and innovation. This was followed by a warm welcome address by **Dr. K.V. Murali Krishnam Raju, Principal of SRKR Engineering College**, who encouraged the participants to embrace teamwork, creativity, and safety throughout the competition. The Convenor of the event, then provided an overview of the championship structure and motivated the participants to push their engineering boundaries.

The inaugural event concluded with the unveiling of the championship flag, marking the official start of the SRKR Go-Kart Championship 2025.

Technical Inspection (TI)

The Technical Inspection phase was conducted on [Date], immediately following the inauguration. A dedicated team of technical experts and faculty members meticulously evaluated each go-kart to ensure adherence to the prescribed safety norms and design specifications outlined in the event rulebook.



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Only the teams that cleared all checkpoints and met the minimum safety standards were allowed to proceed to the dynamic events. This process emphasized the importance of vehicle safety and design compliance, ensuring a safe competition for both drivers and spectators.

Static Events

The static rounds were held over 2 Days, providing a platform for teams to present their engineering concepts, innovation, and economic feasibility to a panel of judges from academia and industry.

Design Presentation

Teams gave detailed presentations highlighting the engineering principles, design rationale, and calculations involved in their kart development. Emphasis was placed on:

- Chassis Design and Weight Distribution
- Steering Geometry and Suspension Layout
- Material Selection and Fabrication Techniques
- Performance Simulations and Testing

Judges assessed the teams based on technical understanding, innovation, and practical feasibility.

Cost Evaluation

This round focused on the financial aspects of kart fabrication. Teams submitted comprehensive cost reports covering:

- Raw Material Procurement
- Manufacturing and Assembly Costs
- Outsourced Components and Services
- Budget Planning and Cost Optimization Strategies



Teams demonstrating effective resource management and frugality without compromising safety and performance scored higher.

Dynamic Events

The most thrilling part of the championship, the dynamic events tested the real-world performance and durability of each kart under race conditions.

Brake Test

Each kart underwent a rigorous brake test to ensure complete stopping capability within a designated distance. The evaluation considered:

- Braking Distance and Efficiency
- Stability during Braking
- Driver Control and Responsiveness

Acceleration Test

This test measured the kart's ability to achieve maximum speed over a fixed stretch (100 meters). Factors evaluated included:

- Acceleration Time
- Engine Response and Power Delivery
- Weight-to-Power Ratio Efficiency

Skid Pad Test

Teams demonstrated their kart's handling characteristics by navigating a figure-eight circuit, testing:

- Lateral Acceleration
- Grip and Stability on Turns
- Steering Responsiveness



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Endurance Race

The highlight of the championship, the endurance race tested:

- Kart Durability over Long Distances
- Fuel Efficiency and Engine Reliability
- Driver Strategy and Team Coordination

Teams raced for 1 hour on a challenging circuit featuring straights, chicanes, and sharp turns. Teams had to manage pit stops, and mechanical reliability. The race provided a comprehensive evaluation of both the kart's engineering and the team's tactical prowess.

Valedictory Ceremony

The Valedictory Ceremony was held on the concluding day of the event, 26-01-2025 marking the official close of the SRKR Go-Kart Championship 2025. It was attended by esteemed dignitaries including **Smt. C. Nagarani, Collector and District Magistrate of Bhimavaram**, and all participating teams, faculty, and students.

The ceremony began with a recap video showcasing event highlights, dynamic races, and participant interviews, drawing applause and cheers from the audience. This was followed by a heartfelt address by **Dr. Dr. K.V. Murali Krishnam Raju**, who appreciated the relentless efforts of all teams and acknowledged the Organizing Committee, volunteers, and sponsors for making the event a grand success.

Each award was accompanied by a trophy, certificates, and cash prizes.

The event concluded with a vote of thanks delivered by **Dr. K. Suresh Babu**, expressing gratitude to all stakeholders for their contributions. The championship flag was ceremoniously lowered, marking the official end of the event, followed by a group photo session with all teams and organizers.



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RESULTS & AWARDS

Category		Team Name	College Name
Overall Championship	Winner	Enigma	Raghu Engineering College
	Runner – Up	Enigma 2.0	Raghu Engineering College
	2 nd Runner – Up	Markandeya	SRKR Engineering College
Endurance	Winner	Enigma	Raghu Engineering College
	Runner – Up	Markandeya	SRKR Engineering College
Acceleration Test	Winner	Enigma 2.0	Raghu Engineering College
Brake Test	Winner	Rudra	Vignan's Institute Of Information Technology
Skid Pad	Winner	Enigma	Raghu Engineering College
	Runner – Up	Enigma 2.0	Raghu Engineering College
Auto Cross	Winner	Markandya	SRKR Engineering College
Time Trail	Winner	Enigma 2.0	Raghu Engineering College
	Runner – Up	Enigma	Raghu Engineering College
Best Design	Winner	Rudra	Vignan's Institute Of Information Technology



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	Runner - Up	Enigma	Raghu Engineering College
Best Business Plan	Winner	Tachyon	Aditya University
Best Cost Report	Winner	Spartans	Aditya Institute Of Technology And Management
Team Sprit	Winner	Tenacion Riders	Anil Neerukonda Institute Of Technology And Sciences
Best Captain	Winner	Ashva	Anil Neerukonda Institute Of Technology And Sciences
Best Driver	Winner	Enigma	Raghu Engineering College
Best Faculty Advisor	Winner	Tachyon	Aditya University



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