BAJABOUND

THE OFFICIAL NEWSLETTER OF FIREBOLT RACING

"DOWNSHIFTS
ARE JUST
PART OF THE
CLIMB"

PAGE 15

"LIFE'S A RACE -NEVER LIFT OFF THE THROTTLE"

PAGE 11

VOL 4 | ISSUE 1 | JUNE '25





FIREBOLT RACING

MAKE.RIDE.WIN.REPEAT

Firebolt Racing stands as a premier technical club at Birla Institute of Technology Mesra, known for its excellence and innovation in the field of automotive engineering.

Our journey in this college has been nothing short of truly remarkable, marked by relentless passion, dedication, and teamwork. Our hard work is best reflected in our achievements at BAJA SAE, where we have continually pushed the boundaries of performance and engineering. Each competition has been a testament to our skill, resilience, and commitment to excellence and critical thinking.

As a team, we strive to uphold this legacy, refining our designs, improving performance, and setting new benchmarks year after year. Firebolt Racing is not just a club—it is a family of driven individuals working together toward a shared dream. We take pride in our accomplishments and remain committed to pushing forward, making our mark on the racing and engineering world.



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CHRONOLOGY

Fifteen years ago, a group of ambitious undergraduates set out to build an all-terrain vehicle (ATV) capable of conquering any landscape. What began as a bold idea soon became a relentless journey of engineering, teamwork, and perseverance—marking the birth of Firebolt Racing and inspiring generations to push limits.

The path to success has been demanding. From design and fabrication to testing and overcoming setbacks, every challenge has strengthened the team's resolve. Long hours and hard work culminate in the thrill of seeing their handcrafted ATV roar to life and take on rugged terrains-an unmatched reward for their dedication.

This edition highlights the stories of the leaders propelling Firebolt Racing forward. Their efforts extend beyond building high-performance vehicles—they're shaping a legacy of innovation, collaboration, and excellence. Through partnerships with the administration and alumni, they continue to secure the team's future and inspire the next generation of engineers to grow, lead, and achieve more with passion, vision, and commitment.





"Life's a road — Enjoy the Ride, not just the Destination."

When I joined Firebolt Racing, I came for the ATV. But I stayed for the people, the purpose, and the passion that runs deeper than metal. This club is a journey — not just of building machines, but of building character. We've faced broken parts, rejected designs, budget cuts, and tight deadlines. There were nights when all we had was each other and the dream of crossing that finish line. We've lost sleep, skipped meals, and worked through pain — but every second of struggle brought us closer. -What we do here-isn't easy. It's never been easy. But it's real. It's raw. And it teaches you things no classroom ever can. In Firebolt, success isn't just measured in lap times or scores — it's measured in late nights, failed attempts, and the will to keep going. To new members, I say this: you're about to start something big. You'll be confused. You'll feel lost. You'll wonder if you belong. And yes, sometimes you'll question if it's worth it. It is. Every wire you connect, every weld you grind, every bolt you tighten and call you make for sponsorship — it all matters. This is where theory turns into action. Where mistakes turn into mastery. Don't fear the work embrace it. You'll get your hands dirty, you'll make errors, but that's how you grow. You're not alone. Every senior has walked your path. We've all struggled, failed, and stood back up. And now we're here to guide you. Push hard. Learn fast. Fall down, but always rise. Help



each other. Trust the team. Be proud of your smallest wins. Firebolt Racing is not just about speed — it's about spirit, about never giving up, about believing in the impossible and turning it into something real. It's about standing side by side with people who become more than teammates — they become family. Build together, race together, and carry this legacy forward. Stronger, faster, and more united than ever before — this is Firebolt. And this is just the beginning of everything.



"Not a Page, but the Whole Story."

Machines have always fascinated me—not just for how they work, but for how they bring people together. When I joined college, I didn't know where I'd fit in. Then I saw Firebolt Racing. That single glimpse of the ATV set everything in motion. The path wasn't easy. I had no background in automobile engineering and had to learn everything from scratch. Late nights, endless setbacks, and pushing through failures became the new normal. But with every mistake came a lesson, and with every success came a bond stronger than before. The workshop became our second home, and the team, our family. The buggy that crossed the finish line wasn't just metal and bolts—it was our blood, sweat, and belief. Firebolt taught me that passion and hard work can break any barrier. If you're starting out—believe in yourself, stay hungry, and keep building. The journey is long and tough, but truly unforgettable.





"Sometimes you need to take the Scenic Route."

Before I stepped into the Firebolt workshop, I thought engineering was just about theory and exams. That changed the moment I joined the team. I found myself surrounded by people who breathed life into machines—who believed that effort, not just knowledge, builds greatness. I struggled at first, learning new tools, dealing with pressure, and managing time. I made mistakes, doubted myself, and even thought of giving up. But I stayed, and slowly, I grew. Each failed test, each long night, pushed me further. And when our vehicle finally hit the track and conquered it, all the effort made sense. Firebolt isn't just a team—it's a place where grit meets purpose. It gave me confidence, friendships, and a new way of thinking. To all the new recruits—welcome to the ride of your life. Give it everything, and it will give you more than you can imagine.





UII. THE STRUGGLE >>>

Building our ATV in the post-COVID era brought a unique set of challenges. With limited time and resources, we had to reuse our previous chassis, adapting it to new requirements. For the first time, we incorporated AFCO suspension, designed our own gearbox, and implemented a Gaged CVT—each a major technical leap for the team.

The road was far from smooth. Our vehicle's hub broke during testing, and a master cylinder leak forced a last-minute replacement. Despite these setbacks, our determination never wavered.



02. THE PLAN >>>

Recognizing the time crunch, we streamlined our workflow. The team divided responsibilities: some focused on integrating the new gearbox and CVT, while others handled suspension upgrades and chassis adjustments. We prioritized critical systems and scheduled regular testing to catch issues early.





03.

THE EXECUTION >>>

Testing was intense and unpredictable. During a demonstration in front of the college's Training and Placement Cell, the ATV rolled over, injuring the driver and causing significant damage to the vehicle. The accident was a major setback, but the team responded immediately, working tirelessly to repair the ATV and implement crucial last-minute technical and structural modifications. After these rapid repairs, we faced another hurdle—a master cylinder leak. We replaced the faulty component just in time, and, to our relief, the ATV cleared the brake test on its very first attempt. This moment was a testament to the team's resilience and technical expertise and problem-solving skill.







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THE OUTCOME >>>

Despite every obstacle, we delivered. Our ATV, equipped with its new systems and strengthened by our resolve, was successfully presented at the event site. The journey tested our technical skills and teamwork like never before, but our perseverance paid off in remarkable ways.

We achieved 1st place in the Sales Presentation, 2nd place in the Raftaar event, and 3rd place in the Acceleration event. Additionally, we secured top 10 finishes in several other categories, showcasing our all-round performance and innovation. These achievements are a testament to our ability to adapt, innovate, and excel—even in the face of adversity.



"Fueled by Passion, Forged by Firebolt"

Firebolt Racing is not just a name. It's a fire — one that's lit inside each member who chooses the hard road, the long nights, and the endless hours in the garage. Every screw we tighten, every part we weld, every lap we complete — they come from that fire. This team has seen highs and lows. We've had times when nothing worked, when we missed deadlines, and when the ATV felt like a pile of broken hopes. We've struggled with designs that didn't fit, wiring that sparked out, and budgets that barely held together. There were moments of doubt, pure exhaustion, and frustration so deep it made us question everything. But every time, we picked ourselves up. We fixed what failed, learned what went wrong, and came back stronger. We don't give up — and that's what makes us who we are. If you're new here, know this: Firebolt will challenge you. It will push you harder than you expect. It might break you before it builds you. But if you stay, you'll come out with more than just skill. You'll gain grit, learn the value of time, effort, and teamwork, and do things you never thought you could. Most importantly, you'll become part of a family that stands by you — in the garage, on the track, and in every failure and win. Ask, try, fail, fix. You don't need to know everything - just show up with heart. Your hands will learn, your mind will sharpen, and your bond with the team will grow. Firebolt Racing has given

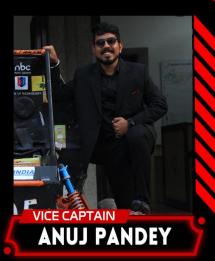


me lessons no book could ever teach. There will be nights when everything goes wrong, and you'll feel like giving up — don't. There will be moments when your hands are covered in grease, your eyes are tired, but your heart is full — cherish those. Every weld, every bolt, every decision you make shapes more than just the ATV — it shapes you. Take pride in the process, not just the result. And remember, the track doesn't just test the machine, it tests the team — and Firebolt always rises.



"Built with Grit, Driven by Discipline."

Ever since I was a child, the sound of engines and the beauty of machines pulled me in. Cars weren't just machines—they were stories in motion. When I saw Firebolt's ATV for the first time in college, I knew I had found my place. Joining the team wasn't easy. I had to step far out of my comfort zone, learning skills and subjects I had never touched before. The journey was tough—endless nights, failed designs, missed meals, and moments of doubt where quitting seemed easier. COVID made things even harder, forcing us to build with no past hands-on experience. But we learned. We adapted. We kept moving forward. And when our buggy tore through NATRAX circuit, all the pain turned into pride. This team became more than just a project—it became a part of who I am. To those starting now: chase what moves you. It's always worth it.





"More Than a Machine, We Built Ourselves."

Since childhood, machines—especially automobiles—have been my passion and obsession. When I entered college and saw Firebolt's car for the first time, I was instantly captivated. I knew I wanted to join the Engineering Team, but being a Civil Engineering student, I worried if I could manage. The knowledge required was far from my field, and I'd have to study subjects that wouldn't help me academically. Still, I chose passion over comfort. The design phase brought sleepless nights, skipped meals, and the constant dilemma of sacrificing a relaxed college life. Post-COVID, we faced greater challenges—manufacturing from scratch, repeated failures, and the fear of not being ready. Yet, we never gave up. Our buggy roared to life at NATRAX, conquering every obstacle. This journey taught me that passion, teamwork, and perseverance matter most. Follow what you love—it will shape and define you. #FireboltedForever.





①1. THE STRUGGLE >>>

For this season, we aimed higher by introducing all-wheel drive (AWD) for the first time, motivated by the bonus points offered for 4WD/AWD ATVs. Transitioning from rear-wheel drive (RWD) to AWD was a major leap, and as first-time manufacturers of such a system, we faced a steep learning curve. The result was a bulky ATV, as optimization techniques were still unfamiliar to us.

This lack of experience led to several technical complications. The CVT and gearbox frequently brushed against each other due to improper adjustments, causing persistent mechanical issues. At the event, things took a turn for the worse when the differential broke down, forcing us to represent the ATV in RWD only. Additionally, we discovered we had forgotten to bring the CVT kit.



02. THEPLAN >>>

Despite these setbacks, we remained determined to compete. The team quickly reorganized, focusing on adapting the vehicle for RWD operation and meticulously troubleshooting the ongoing mechanical interferences. We split into groups to manage critical technical fixes, logistics, and event documentation, hoping to maximize our chances despite the mounting challenges.





03.

THE EXECUTION»

At the event site, we managed to pass the technical inspection, a small victory given the circumstances. However, the brake test proved insurmountable, and we were unable to clear it. The absence of the CVT kit further hampered our ability to make adjustments or replacements. During the online sales presentation, we encountered network issues that cost us valuable time and affected our performance. Each setback was a learning experience, highlighting the importance of preparation, communication, and technical know-how.





9.4t.

THE OUTCOME >>>

Although we faced numerous challenges and couldn't perform at our full potential, the experience was truly invaluable. Our first AWD attempt taught us important lessons in vehicle design and overall preparation. Passing the technical inspection was a true testament to our team's combined effort, even if we couldn't fully display the vehicle's real performance capability.

This intense season built the groundwork for future success, giving us the resilience and essential technical skill required to come back even stronger.



"Life's a Race - never Lift off the Throttle"

At the start of my college journey, everyone was eager to join one club or another. For many, it was about choosing a club — but for me, it felt like the club chose me-'Firebolt Racing'. I still remember how fate led me to this team. I almost missed the entrance test and wasn't. even aware I had been shortlisted for the interview. To make things worse my laptop's camera wasn't working, and I had to borrow my father's laptop to attend the interview. Looking back, I'm grateful for how everything aligned, bringing me into this incredible team. For nearly two years, we attended college virtually. I was eager to step into the workshop, see the ATV up close, and get my hands on the tools. Initially, I found it tiring to constantly study for meetings with seniors, but over time, I started enjoying the process. Now, I realize how crucial those early years were in shaping my understanding and love for what we do. Attending the event in my second year was pure joy — and winning three podiums lifted everyone's spirits. But the next season tested us. I remember the team working almost 40 hours straight just days before the event. Despite giving it our all, we faced setbacks and fell short of expectations. Personally, I felt disappointed, but the unwavering support and motivation from our seniors helped us bounce back. We didn't let failure define us; instead, we learned, adapted, and kept pushing

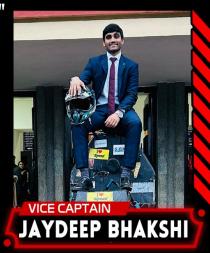


forward. To my juniors, I want to say this: focus on learning during your early years. Every failure carries a lesson, and every challenge makes you stronger. Trust the process, trust your teammates, and never lose the passion that brought you here. Remember, there is no 'I' in team. It's not about individual brilliance but about collective effort and unity. A single person can't make you the best team — but when everyone works together, the possibilities are endless and truly inspiring.



"It's not how fast you start, but how far you go."

Being the vice-captain of Firebolt Racing has been a journey full of ups and downs. We faced many hard days — late nights, failed tests, broken parts, and last-minute fixes. But with every tough time came a chance to learn. We learned how to work as one, how to fix things fast, and how to stay calm under stress. Every error taught us more than books ever could. We grew stronger with each task. To the new members — welcome! You are now part of a team that never gives up. You will face tough times, but you will also gain skills, make strong bonds, and learn things you never thought you could. Stay strong, ask for help, and give your best each day. Firebolt is not just a team — it's a place to grow. Let's keep building, learning, and moving forward — together, as one, with heart, skill, pride, hope, trust, strength, and fire.





"More than a Team, We Became a Legacy."

Firebolt Racing has been a life-changing ride. We faced long nights, short breaks, broken parts, and plans that didn't work. But every tough moment became a chance to grow. We learned to trust each other, fix fast, think on our feet. Mistakes made us sharper, stronger, and more prepared for anything. We didn't just build a machine — we built resilience and character. This team tested us, taught us, shaped us. We grew fast, in skill and spirit. We failed, learned — gave our best. There's no shame in failing, only in giving up. Firebolt is where we push limits, build dreams, and find our people. It runs on grit, frustration, breakthroughs, late nights, and will to move forward. This isn't just about racing — it's about becoming more than you were yesterday. Success belongs to those who show up, work hard, and never back down. In the end, it's not about the machine. It's about growth and the people who make it meaningful.





Ull. THE STRUGGLE >>>

This season, we introduced AFCO rear suspension and pursued all-wheel drive for the second time. However, testing revealed multiple brake caliper failures and underperforming brakes, forcing extra time on brake improvements and delaying other preparations. Technical inspection was lengthy due to last-minute fixes, but we eventually passed. At the event, recurring tire issues and air leaks limited performance. The biggest setback came during the endurance race when the CVT overheated and failed, ending our run early.



02. THE PLAN >>>

Prioritizing safety and reliability, we focused on upgrading the brake system above all else. The team split into groups dedicated to brakes, suspension tuning, tire maintenance, and logistics. Our goal was to ensure the ATV could endure competition demands, even if it meant sacrificing some overall performance.





03.

THE EXECUTION >>>

Despite setbacks, we pushed forward. After a tense technical inspection, we passed and kept the ATV running during the event through quick tire and air leak repairs. Unfortunately, the overheated CVT cut the endurance race short. Off-track, we excelled in static events, delivering a standout sales presentation and strong overall statics performance, including cost and design reports.

These challenges tested our adaptability and teamwork. Each obstacle strengthened our resolve to keep pushing, improving, and returning stronger.







THE OUTCOME >>>

This ATV marked Firebolt Racing's first successful all-wheel-drive vehicle—a major milestone. We won 1st place in Sales Presentation and earned the Organising Committee Choice Award. Our statics score was strong, just 0.5 points shy of a top 3 finish.

Despite technical hurdles, the season showcased our growth and teamwork. It set a benchmark for future competitions, laying a strong foundation for even greater achievements ahead. This success reinforced our belief in continuous improvement. It also encouraged us to aim higher in every aspect of engineering, innovation, and performance.



"Every finish line is just the Start of a new Lap."

When I joined Firebolt Racing, I didn't know how deeply it would shape my life. I saw the team working day and night — fixing, building, learning, and pushing limits. It wasn't just about a fast ATV; it was about building ourselves to be sharper and stronger. We faced tough times — cold nights, broken parts, failed tech checks, and endless hours without food or sleep. Money was tight, stress was high, but we never gave up. We stood by each other and grew stronger with every mistake. Firebolt is for those who rise when they fall, who fight for every bolt, every weld, every lap. This team will test you. But if you stay and give your best, it will reward you with real friends, real skills, and pride. Learn. Ask. Fail. Fix. Don't fear failing — fear not trying. Firebolt isn't just a club. It's a family. A place where passion meets purpose — where dreams turn into speed.





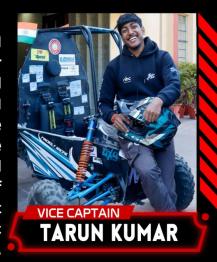
"Downshifts are just part of the Climb."

When I joined college, I wanted to be part of a club that was active and helped me learn something new every day. The moment I saw the ATV racing, I knew this was where I belonged. I was selected in my first year as a technical member. I joined as an enthusiastic rookie with little experience. Four years of dirt, dust, and adrenaline — that's what Firebolt Racing Club has been for me. I contributed to virtual dynamic events, manufacturing, and Ansys analysis of 4WD components. The journey taught me valuable lessons across many domains. A major highlight was clearing the brake test on our first attempt in the FRX4 season, after failing it the year before. That success showed how far we'd come. Firebolt Racing became more than just a club — it became a family. The memories, bonds, and experiences I gained here will stay with me forever.



"Horsepower moves you - vision drives you."

My enthusiasm for cars has been constant since childhood. Entering college, I actively sought out a place to connect with this passion and discovered our college's Baja SAE team, Firebolt Racing. Unfortunately, due to limited engagement with social media and college groups during my first year, I missed the initial recruitment. However, by my third semester, I was fortunate to join Firebolt. Participating in Baja SAE India has been an invaluable experience, constantly pushing us to confront and overcome technical and personal challenges. It's more than just a club; Firebolt fosters a deep sense of camaraderie and a shared ambition. Our ultimate goal is to one day represent our college on the international Baja SAE stage, competing in the dynamic events that showcase the pinnacle of global engineering innovation.





"Smooth roads never made skilled drivers."

I came to college with the same thought as many—that I would enjoy it fully and make the most of it. But with time, that dream started to fade. I no longer felt the same spark. Then one day, I saw Firebolt's ATV running through campus. In that moment, I knew this was it. I wanted to feel that thrill. That's how my journey with Firebolt began, and I've never looked back. I had found my spark. I've had many amazing moments while building, designing, and riding the ATV. These memories will stay with me forever, like the number marked on the vehicle in RRH. Going through tough times and solving problems together brought me close to the team. Now, with the chance to lead, I believe FRX5 will be the best and most fun season yet. The thrill of each ride will stay with me for life. I hope the next team goes even further. Remember—on flames we ride.





①]。 THE STRUGGLE »»

This season began like any other—plans were laid out, and the team was confident. But things changed quickly when the engine gave out. It wasn't a minor issue. It stopped completely and couldn't be brought back to life.

With no reliable mechanic willing to help—most unfamiliar with our type of engine—we had to fall back on spares from older seasons. We managed to get a 2017 engine up and running, just good enough to keep things moving.

At the same time, we faced problems with logistics. Parts arrived late or in poor condition. Financial issues followed. The mid-season budget crunch was a real problem—things slowed down, but we didn't stop.



O2. THE PLAN >>>

With so many technical issues stacking up, we reorganized the workflow. A small core team took over the problem areas. Others focused on supporting roles like sourcing, logistics, and documentation coordination and compilation.

Instead of aiming for full builds in one go, we broke the process down into smaller goals. That made delays easier to manage and gave us better oversight, control, and tracking of progress.





03.

THE EXECUTION >>>

As deadlines came closer, the overall workload increased significantly. The team split into shifts and started working round the clock. Updates came from everywhere — sometimes even urgent calls from hospitals or buses. The focus was to stay alert, stay organized, and get all essential things done properly.

Then, on the final day before dispatch, the throttle cable broke. And a small brake fluid leak showed up again. The throttle was fixed immediately, but we had no time to rebleed the brake system at the workshop. So we made a quick team call — do it while in transit.

Three team members worked on the brakes in the back of the truck, toolkit in hand, while the vehicle moved steadily towards the competition event site.







We reached the event location just a single day before the final competition. With time slipping away quickly, we turned the narrow space beside our parked truck into a makeshift garage under open skies. Final touches were done right on the spot—rear brake alignment, brake fluid top-up, and last precise brake bleed. FRXV made it to the event successfully. It wasn't flawless, but it was completely functional, fully tested, safe, and completely ready to strike the very dusty track and race with confidence. This season tested us in every possible way imaginable—technical breakdowns, last-minute budget constraints, and unrelenting time pressure. But we adapted quickly, stayed focused, pushed through, and in the very end, we got the job done together.



PUSHING BOUNDARIES

GEARBOX



Firebolt Racing's Gearbox Revolution

Firebolt Racing takes a bold leap with its all-new custom designed gearbox one of the most compact and efficient in the competition. Engineered to seamlessly integrate a transfer case, it delivers true 4X4 capability, effortlessly transferring power to the propeller shaft. This isn't just an upgrade it's a game-changer in ATV drivetrain technology.

Firebolt Racing's Differential Breakthrough

Precision-engineered and designed in-house, our all-new custom differential sets a new benchmark in ATV performance. Housed within a specially designed protective cage, it enhances durability and safety while ensuring seamless power distribution. This engineering marvel is built for maximum efficiency, giving our ATV the edge in any terrain. Firebolt Racing isn't just competing—we're redefining the game!

DIFFERENTIAL



PROPELLER SHAFT



Power in Motion: The Propeller Shaft

Propeller shaft is a fundamental component responsible for transferring the torque from the gearbox to the rear axle or differential. It is also called the Cardan shaft or Drive shaft. Although widely used in cars, this vital mechanism also finds application in boats and airplanes. Constructed as a hollow, tube-like structure, the propeller shaft combines universal and slip spline joints.



DAMPER



Unleash Maximum Control with AFCO Dampers.

AFCO Racing manufactures high-performance dampers designed for motorsports and performance vehicles. Their dampers offer features like adjustable compression and rebound settings for precise tuning of vehicle handling. AFCO dampers are known for durability, customization, and improved control across various racing applications.

Advanced Torque Delivery with Gaged CVT.

A Gaged CVT is a high-performance type of Continuously Variable Transmission designed and manufactured by Gaged Engineering. It was used in FRX5 .It is known for its good torque delivery. Unlike traditional gear-based transmissions, a CVT provides a smooth and continuous range of gear ratios by varying the diameter of the pulleys connected by a belt or chain.

GAGED CVT



SHIFTER CVT



Uninterrupted Power. Proven Reliability.

The Shifter CVT is a type of Continuously Variable Transmission designed for go-karts and small performance vehicles. It offers a seamless range of gear ratios, allowing the engine to maintain optimal RPM for acceleration and efficiency without the need for manual gear shifting. It was first used in FRX2 and it very reliable.



ACHIEVEMENTS



BAJA SAE 2022



SALES PRESENTATION







ACHIEVEMENTS



BAJA SAE 2024



SALES PRESENTATION











GALLERY





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MEDIA COVERAGE

Sunday Hindustan Times

My RANCHI

India has responded swiftly to Al's impact on global econ: Prez



बीआइटी मेसरा की टीम फायरबोल्ट ने हासिल की ओवरऑल टॉप-10 रैंक

⊃ ३५० टीमों ने प्रतियोगिता में लिया था हिस्सा

संवादवाता, रांबी

बीआइटी मेसरा की टीम फावरबोल्ट की बग्धी 'एफआरएक्स-2' ने बाज सेड इंडिया प्रतियोगिता में सफलता हासिल की है, इस प्रतिवेगिता में देशभर की 350 टीमों ने हिस्सा लिया था. आठ इवेंट (वर्ष्अल और ट्रैक इवेंट) में टीम फायरबोल्ट ने ओवरऑल टॉप-10 रैंक हासिल किया है, इंडिया लेवल पर टीम को 13वाँ रैंक मिला है, ॲतिम चरण का फद्दनल रिजल्ट शुक्रवार को जारी हुआ. इसमें टीम फायरबोल्ट ने डिजाइन प्रेजेंटेशन में पांचवां स्थान (180 टीम) त्रसिल किया. वर्ते, वैलिडेशन इवेंट और एंडवोरेंस रेस (लगातार चार घंटे के रेस) में सातवां



टॉप-10 रेंक हासिल करने के बाद जरून मनाती टीम कायरबेल्ट.

पीचमपुर के ट्रैक इवेंट में तीन अवार्ड छह से 10 अप्रैल तक इंदीर के पीधमपुर में ट्रैक इवेंट हुआ. सेल्स प्रेजेंटेशन, रफ्तार और एक्सलरेशन इवेंट में भी फावरबोल्ट टीम ने क्रमशः पहला, दूसरा

कॉलेज की 81 टीमें शामिल हुई. टीम फावरबोल्ट का नेतृत्व कप्तान उमंग बीवास्तव, उप कप्तान शिवांश गोवल व विवास पाल अरोहा और फैकरली एडवाइजर डॉ परितोष महाता ने किया. वर्ति, बन्धी को तैवार करने में कॉलेज के

बाहा साई इंडिया में ज्यादा पावर के साथ दौडेगी एफआरएक्स-5

बीआइटी मेसरा की टीम फायरबोल्ट बाहा साई इंडिया-25 में भाग लेने के लिए तैयार है. सोसाइटी ऑफ क (तप्पे तथार है. सासाइटा आजी गोटीमोटिव इंजीनियर्स (प्रसण्ड) की ओर से आयोजित प्रतियोगिता पीथमपुर के नेटिएंप ट्रैक पर छड़ जनवरी से गुरू होगी. इंजीनियरिंग स्टूडेंट्स के लिए सबसे बड़े इस ऑटीमोबाइल इवेंट में देशभर से 90 टीमें हिस्सा लेने पहुंचेंगी. छह से 14 जनवरी तक विभिन्न चरणों में प्रतियोगिताओं का आयोजन किया जायेगा. वहीं, ट्रैक इवेंट नौ जनवरी को होगा, इसमें बीआइटी मेसरा की फायरबोल्ट की 30 सदस्यीय टीम कैप्टन चंद्रांशु सिंह के नेतृत्व में प्रतियोगिताओं में हिस्सा लेगी. टीम के वाइस कैप्टन तरुण कुमार और संदीप यादव हैं. वहीं टीम फैकल्टी एडवाइजर डॉ परितोष महाता के नेतृत्व में इस वर्ष प्रतियोगिता में हिस्सा लेगी. टीम फायरबोल्ट स्वदेशी ऑल टेरेन व्हीकल (एटीवी) यानी बग्घी की 15वीं वेरिएंट प्रतियोगिता में उतारेगी. इसे 'एफआरएक्स-५' का नाम दिया ऑल व्हील ड्राइव व्हीकल मॉडल पर तैयार किया गया है. इस बार एफआरएक्स-5बाहा साई इंडिया में ज्यादा पावर के साथ दौड़ेगी

वर्चुअल राउंड की प्रतियोगिता में लिया हिम्मा : टीप फाग्रखोल्ट ने पिलियनी हिस्सा : टाम फायरबाल्ट न प्रालमनत्त राउंड में वर्चुअल मोड पर आयोजित प्रतियोगिता में हिस्सा लिया. वर्चुअल राउंड की प्रतियोगिता 27 नवंबर को

वर्चअल राउंड के स्टैटिक इवेंट में टॉप फाइव में बनायी जगह प्रतियोगिता में जीत हासिल कर रही बीआइटी मेसरा की टीम

कॉलेज के वर्कशॉप में तैयार हो रहा नया मॉडल

टीम फायरबोल्ट कॉलेज के वर्कशॉप में दिन-रात अपने नये एटीवी एफआरएक्स-5 को बनाने में जटी हुई है, बीआइटी मेसरा के विभिन्न संकाय – मैकेनिकल एंड प्रोडक्शन. सिविल, इलेक्ट्रिकल और कंप्यूटर साइंस इंजीनियरिंग समेत अन्य विभागों के विद्यार्थी मिलकर इसका निर्माण कर रहे हैं. टीम के वाइस कैएन तरुण ने बताया कि इस वर्ष एफआरएक्स-5 का मॉडल बीते वर्ष की तुलना में ज्यादा अपग्रेड है . टीम के सदस्यों ने मिलकर एटीवी की गियर समस्या खत्म कर दी है. अब नये मॉडल में 'शिफ्टर सीवीटी का इस्तेमाल हो रहा है, जिससे गियर शिषट की समस्या कम होगी . इससे एटीवी अपनी मानक स्पीड और टॉर्क को हासिल कर संकेगी.

हुई. स्टैटिक इवेंट के सेल्स, कॉस्ट और डिजाइन प्रतियोगिता में टीम ने अपना सर्वश्रेष्ठ प्रदर्शन किया. इसका फाइनल रिजल्ट अगले कछ दिनों में जारी होगा. जबिक टीम फायरबोल्ट देश के टॉप फाइव में अपनी जगह सुनिश्चित कर

市 तिर्माण गात्रआरगतस-५ में ७.५ लाख रुपये हो रहे खर्च : सोसाइटी ऑफ ऑटोमोटिव इंजीनियर्स की मदद से ब्रिग्स एंड स्टैटन का इंजन मंगवाया गया है, जो 305 सीसी की है उन्तत स्पीड पाने के लिए एटीवी का नोज डिजाइन किया गया है. साथ ही वजन को 187 केजी से घटाकर 160 किया गया है. इससे एटीवी अब 100 फीट की दूरी को 60 किमी प्रति घंटा की टॉप स्पीड से चंद सेकेंड में पूरा कर लेगी. एफआरएक्स-5 के निर्माण में

National Science Day: बीआइटी मेसरा के छात्र ने बनाया ६५ किमी की रफ्तार से उबड खाबड रास्ते पर दौडने वाली कार, जानिए विशेषता...

टीम के लिए लाते हैं स्पांसरशिप

मजेदार बात यह कि टीम के सदस्य न सिर्फ देश विदेश की बहुत सारी कंपनियों के सामने अपनी इस गाड़ी की प्रस्तुति दे चुके हैं बल्कि अपनी टीम के लिए स्पांसरक्षिप भी लाते हैं। पैसों के लिए बीआइटी विद्यार्थियों की सबसे ज्यादा मदद करते हैं। ताकि विद्यार्थियों एवं इस टीम की पहल हारा देश में विज्ञान और प्रौद्योगिकी का

बाहा एसएई इंडिया में भाग लेने इंदौर के पिथमपुर पहुंची बीआईटी मेसरा की 30 सदस्यीय फायरबोल्ट रेसिंग टीम

पथरीली व कीचड भरी सडकों पर दौडने में सक्षम

सिटी रिपोर्टर | रावी

देशभर के कई राज्यों से 200 से ज्यादा टीमें अपने ऑल टेरेन व्हीकल के साथ प्रतियोगता में भाग लेंगी

बाह्य एसएई इंडिया 2022 में भाग लेने के लिए क्या को बीआईटी मेसरा की टीम फायरबोल्ट वर्ष मपुर, इंटीर पहुंची, जो 10 औरत तक करना इसमें देशभर के विभिन्न राज्यों से 200 से ज्यादा टीमें अपने ऑल टेरेन व्हीकल यानी एटीवी के साथ भाग लेंगी, जिनके बीच अलग-अलग रास्तों पर रेम होगी। इसमें कई मावनों पर आंकने के बाद टीम को विजेता चुना जाएगा। बीआईटी मेंसरा की टीम फायरबोल्ट रेसिंग इस बार अपने तैयार एटीवी एफआरएक्स टू को लेकर पहुंची है। इस टीम का 12वां साल है। इसमें 30 स्टूडेंट्स की टीम हैं, जिसमें दो गर्ल्स स्टडेंट्स शामिल हैं। इसमें कैप्टन डमंग श्रीवास्तव, बाइस केप्टन शिवांश गोयल, त्रियान पाल अरोड़ा हैं। इस इवेंट का आयोजन सोसायटी ऑफ ऑटोमोटिय इंजीनियर्स (एसएई) द्वारा किया जाता है।

से नीचे कुदाया भी जा

गाडी की खासियत पिछले बार से कार का वजन

10 केजी कम किया गया है। सस्पेंसन यूर्स से मंगवाया गया है एक पेवर का टाम देव लाख रुपए है। इसके डिजायन डाइबर सेफ्टी को ध्यान में रख कर बनाया गया है। इसे तैयार करने में दस लाख रुपए का खर्च आया है। एटीबी रेतीने कीवड, पधोली आदि सड़क पर चल सकती

है। इसे 6 फिट की ऊंचाई

दो फेज पार कर बनाई मेन इवेंट में जगह

टीम के बाइस कैप्टन शिवांश गोयल ने बताया कि पिछले साल टीम ने बाह्य इंटरनेशनल में भी भाग लिया था, जिसमें बीआईटी मेसरा की टीम अंतरराष्ट्रीय स्तर पर 18वें स्थान पर थी। इस साल बाहा इंडिया में दो फेज से गुजरते हुए इंदीर में होने वाले तीसरे फेज के लिए अपनी जगह बनाई है। पहले फेज में वर्चुअल इवेंट था, जिसमें टीम को आठवां रैंक मिला था।

इवेंट कई राउंड में

टीम के सदस्य ने बताया कि मुख्य इवेंट में कई दौर से गुजरना पड़ता है। इसमें टेक्निकल इंग्येक्शन के बाद ब्रेक टेस्ट होता है। उसके बाद ही टीम बाकी इवेंट्स में भाग से सकते हैं। जैसे- एक्सीलरेशन, सस्पेशन एंड ट्रेक्शन, मनुबर्बिलटी और कुछ स्पेशल इवेंट जैसे रॉक क्रॉल, स्लेज पुल। इन सबके बाद आखरी दिन एंडुरेंस रेस होती है, जिसमें 5 घंटे लगातर एटीवी को एक टैक पर चलाना होता है।

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