

BUET Automobile Club

CLUB REPORT

9th Executive Committee 2024-25



SEPTEMBER 2024 - MARCH 2025



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Defying the Storm: A Spark of Brilliance in the Midst of Chaos

As the 9th Executive Committee of BUET Automobile Club, we are incredibly proud of the collective efforts that have shaped this year's remarkable journey. In a short period of time, we worked diligently to organize and execute a series of impactful events that fostered a vibrant community of automobile enthusiasts at BUET. Our Membership Drive 2024 saw an overwhelming response, with over 150 new members joining the club, and our fundamental events were executed efficiently, continuing to be the backbone of our club's activities.

This year, we took our initiatives to new heights. The BAC Workshop Series 2024 introduced essential skills like SOLIDWORKS and Graphics Design, elevating the technical proficiency of our members. Moreover, our signature competitions, CADQuest 2.0 and Harmony of Motion 2.0, not only raised the bar in terms of the quality of participation but also set a new standard for competitive events within BUET. These competitions, with their focus on technical excellence and creative expression, underscored our commitment to fostering both innovation and skill development.

The success of all these events would not have been possible without the support of our esteemed Directorate of Students' Welfare, our dedicated teachers, and sponsors. We are also grateful to our logistical partners, club partners, general members, and everyone who contributed in various ways to making these events a success. A special thank you to our moderator, Md. Ashiqur Rahman, PhD, Professor, Department of Mechanical Engineering, BUET, whose unwavering guidance and encouragement have been instrumental in everything we've accomplished.

This year marks not just a continuation, but an elevation of our club's legacy, and we are confident that the foundation we've built will inspire the 10th Executive Committee to carry forward our mission of innovation, collaboration, and excellence.

Thank you to everyone who was part of this incredible journey!



Md Nahid Shahriare

President

BAC 9th Executive Committee

The Final Lap

Farewell Ceremony of 8th Executive Committee

September 11, 2024

BUET Automobile Club bid farewell to its 8th Executive Committee in a heartfelt ceremony, marking the official transition of leadership. The event was presided over by the club's moderator, Md. Ashiqur Rahman, PhD, who commended the outgoing committee for their dedication and contributions.

The graduating executives shared their experiences, reflecting on how the club shaped their undergraduate journey—both technically and socially. They spoke about the invaluable skills they gained, the friendships they built, and the impact of their initiatives on BAC's growth. In recognition of their efforts, each graduating executive was presented with a token of appreciation, honoring their commitment to the club over the years.

Dr. Ashiqur Rahman emphasized the importance of club activities in fostering essential skills beyond academics. He acknowledged BAC's recent achievements and encouraged the newly appointed 9th Executive Committee to carry forward this legacy. His words served as both a celebration of past successes and an inspiration for the incoming team to elevate the club's impact through innovation, engagement, and knowledge-sharing.

With the responsibilities officially handed over, the 9th Executive Committee now steps into the driver's seat, ready to steer BAC toward new milestones.



Membership Drive 2024

BAC's Member Recruitment from BUET Batch-23

September 2024

As BUET'23 embarked on their journey at BUET, BUET Automobile Club launched its Membership Drive 2024 to welcome a new generation of automotive enthusiasts. To introduce the club to freshers, promotional booths were set up at the Cafeteria Premises, where club representatives engaged with students, showcased BAC's past activities, and highlighted the opportunities for hands-on learning, technical workshops, and industry exposure. This interactive approach generated significant interest among newcomers.

Following the initial on-campus promotion, the membership registration process transitioned online, in accordance with the Directives of the Directorate of Students' Welfare (DSW). The online process ensured accessibility for all interested students while maintaining organizational efficiency. The drive received an overwhelming response, with 150+ new members joining BAC, marking a successful expansion of the club's community. The enthusiastic participation reaffirmed students' growing interest in automotive engineering, design, and motorsports, setting the stage for another exciting year of innovation and collaboration.



Tech Marvels presents OVERDRIVE

BAC Freshers' Reception 2024

October 27, 2024 || BUET Auditorium Complex

BUET Automobile Club welcomed its newest members at **Tech Marvels presents OVERDRIVE: BAC Freshers' Reception 2024**, an event designed to ignite passion for automotive innovation and technical learning.

The ceremony was graced by Dr. Md. Asif Raihan, Associate Director, Directorate of Students' Welfare & Associate Professor, Accident Research Institute, BUET, as the Chief Guest. Special Guests included Dr. AKM Monjur Morshed (Professor, Dept. of Mechanical Engineering, BUET), Dr. Anup Saha (Assistant Professor, Dept. of Mechanical Engineering, BUET), and representatives from the event sponsor. The program was presided over by Md. Ashiqur Rahman, PhD, Professor, Dept. of Mechanical Engineering, BUET, and BAC's esteemed moderator.

A special session on concept cars highlighted groundbreaking designs like the Tesla Cybertruck and Porsche Mission R, emphasizing sustainability and autonomous systems. Another presentation traced Bangladesh's automotive sector from Pragoti Industries' early assemblies to modern local production and emerging EV opportunities, including Palki Motors' affordable electric vehicles.

The Mind in Motion segment featured a quiz and technical challenge, testing freshers' knowledge of motorsports, automotive classifications, and key components such as alternators, transmissions, and braking systems. Their enthusiastic participation reflected a strong interest in the field.

The event concluded with a prize distribution ceremony, recognizing top performers and reinforcing BAC's commitment to technical excellence. Through industry insights, interactive learning, and hands-on engagement, OVERDRIVE successfully introduced freshers to BAC's dynamic environment, setting the stage for a year of innovation and skill development.





BAC Freshers' Reception 2024 Photo Gallery

BAC Workshop Series 2024

Introduction to SOLIDWORKS & Graphics Design

October - December 2024

BUET Automobile Club conducted a series of skill-building workshops aimed at equipping students with essential technical competencies. The CAD Segment and Graphics Design Segment were led by experienced club members, ensuring participants gained both theoretical knowledge and hands-on expertise.

Introduction to SOLIDWORKS

This workshop introduced participants to Computer-Aided Design (CAD) using SOLIDWORKS. The sessions covered software installation, user interface navigation, and essential design tools. Participants were assigned hands-on exercises to reinforce learning and track their progress. Those who demonstrated consistency and successfully completed assignments received certificates of completion.

The workshop aimed to build a strong foundation in engineering design, preparing students for future roles in automotive, mechanical, and product development industries.

Introduction to Graphics Design

As part of its annual initiative, BAC organized "Introduction to Graphics Design 2024", a structured course aimed at enhancing students' creative and technical skills. The program covered fundamental design principles, industry-standard tools, and hands-on applications using Adobe Illustrator and Photoshop.

The course included seven comprehensive lectures, with recorded sessions available for participants to revisit key concepts. An interactive Google Classroom facilitated discussions, doubt resolution, and assignment submissions, ensuring an engaging learning experience.

Through this initiative, BAC reinforced its commitment to fostering technical and creative excellence, equipping students with valuable skills for future endeavors in digital design and visual communication.

REGISTRATION
Complete your registration by filling out the registration form & sending the fee.

GOOGLE CLASSROOM
You'll receive a confirmation email about your registration which will include an invitation to join our Google Classroom.

RECORDED CLASS
We will regularly provide recorded classes on the topics mentioned in the Course Outline. A total of 8 classes will be uploaded.

ASSIGNMENTS
Regular assignments will be assigned after each class to reinforce your understanding of the tools and topics covered, to be completed before the following session.

CERTIFICATION
Active participants who will complete the course will receive a certificate from BAC.

BAC CADQuest 2.0: Face Off

BAC's Annual SOLIDWORKS Competition

November 29 - December 5, 2024 || ME Building, BUET

BUET Automobile Club successfully organized BAC CADQuest 2.0: Face Off, an annual SOLIDWORKS design competition aimed at enhancing CAD proficiency and fostering innovation. Officially announced on November 19, 2024, the event featured an online qualifier on November 29, followed by an in-person final round on December 5 at the ME Building, BUET. Open to individual participants from batches 20 to 23, the competition attracted 40+ registrants for the CSWA-format online round, where contestants were evaluated based on their accuracy in calculating design parameters such as mass, volume, and center of mass coordinates.

The top eight performers advanced to the final round, which adopted a LAN-based, head-to-head double elimination format, requiring participants to lose twice before elimination. In 1v1 matchups, contestants solved time-sensitive design challenges that tested their modeling speed, technical precision, and problem-solving skills. The event concluded with a prize distribution ceremony, recognizing the top three performers for their outstanding performance.

CADQuest 2.0 received overwhelmingly positive feedback, with participants praising its challenging format, fair evaluation, and engaging structure. By combining technical rigor with competitive excitement, BAC reinforced its commitment to advancing engineering design skills and providing students with a platform to showcase and refine their CAD expertise.



Harmony of Motion 2.0

BAC's Annual Automobile-Based Exhibition

December 9-11, 2024 || Central Cafeteria Premises, BUET

BUET Automobile Club successfully hosted Harmony of Motion 2.0, an exhibition celebrating the fusion of art and engineering through motion. Held from December 9 to 11, 2024, at the Central Cafeteria Premises, BUET, the event featured posters and photographs depicting speed, innovation, and automotive excellence. Participants showcased classic cars, Formula 1 racing, and iconic cinematic vehicles, offering unique visual narratives on the power of motion.

The event, announced on November 19, 2024, saw enthusiastic participation, with contestants submitting posters and photographs reflecting their creativity. Our moderator Md. Ashiqur Rahman, PhD, visited the exhibition, appreciating the designers and photographers for their skillful storytelling and encouraging them to explore automotive artistry and innovation further. The event was concluded with a prize distribution ceremony, where the top two participants on each category were recognized with crests and certificates.

Harmony of Motion 2.0 successfully provided a platform for automotive enthusiasts to express their passion through visual storytelling, strengthening BAC's commitment to creativity and technical excellence within the BUET community.



Prize Giving Ceremony

of CADQuest 2.0 & Harmony of Motion 2.0

December 9, 2024 || Central Cafeteria Premises, BUET

The prize-giving ceremony for CADQuest 2.0: Face Off and Harmony of Motion 2.0 was held on December 9, 2024, marking the official conclusion of two of BUET Automobile Club's most successful events. The ceremony was graced by Dr. Md. Ashiqur Rahman, PhD, and former club treasurer Nafiz Imtiaz, whose presence emphasized BAC's dedication to both technical excellence and creative innovation.

During the event, crests, certificates, and prizes were awarded to the top performers, celebrating their achievements in CAD modeling and automotive-themed visual storytelling. Winners of CADQuest 2.0: Face Off were recognized for their technical precision and problem-solving skills, while Harmony of Motion 2.0 honored participants for their artistic vision in capturing the essence of motion. The ceremony served as a fitting tribute to the hard work and enthusiasm of all participants, further motivating them to excel in their respective fields.



Auto Adda Episode 1

BUET's Automobile Enthusiasts' Gathering

November 27, 2024 || ME Building, BUET

Auto Adda was a dynamic, open-for-all gathering organized by BUET Automobile Club to foster a community of automobile enthusiasts at BUET. Held on November 27, 2024, in the ME Building, the event provided a relaxed and informal platform for students, both members and non-members, to engage in meaningful discussions on a wide range of automotive topics.

The session encouraged participants to share their passions for automobiles, delve into current automotive trends, and exchange technical knowledge. It also offered an opportunity to gather feedback from attendees on the club's activities and to discuss ways to improve and expand future events. Networking among like-minded individuals, from engineering students to enthusiasts with diverse backgrounds, was a key highlight of the event.

The event was also an opportunity to reflect on the success of the BAC Workshop Series 2024, where the club acknowledged and expressed gratitude to the instructors and organizers for their hard work. Token of appreciation awards were presented, recognizing their contribution to the success of the workshops. Auto Adda proved to be a great initiative for strengthening the bond within the automotive community at BUET while encouraging more students to participate in future club activities.



buetautomobile.club

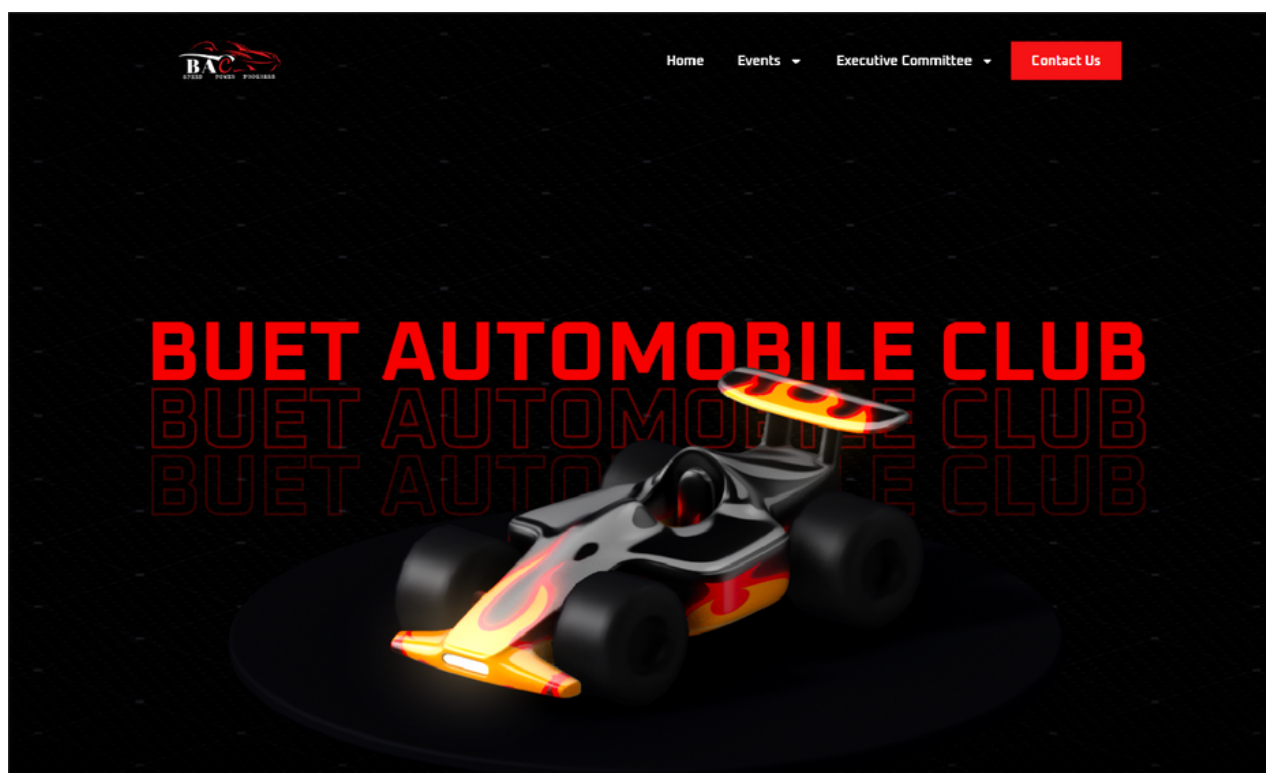
BUET Automobile Club Website

The launch of **buetautomobile.club** marks a significant step forward in the digital evolution of the BUET Automobile Club. More than just a showcase of events, the website serves as a structured archive and a living document of the club's journey, providing both current and future members with a cohesive home for all things BAC.

With a thoughtfully designed interface, the website features a dynamic summary on the homepage, giving visitors an immediate glimpse into the spirit and scope of the club. Each major event—including AutoFest, CADQuest, Harmony of Motion and more—has its own detailed page, preserving not only the memory but also the impact of these initiatives for years to come.

A dedicated Executive Committee Database highlights all past and present leadership, honoring the contributions that shaped the club over time. Additionally, the Contact Us section ensures that reaching out—whether to collaborate, inquire, or join—is easier and more accessible than ever.

This digital platform not only elevates BAC's documentation standards but also reinforces its commitment to transparency, organization, and legacy-building. It stands as a hub for enthusiasts, alumni, and partners alike to engage with the club's vibrant narrative.



Automaestro: A Year in Motion

Automaestro - BUET Formula Student - Team Report

Automaestro Recruitment:

Each year, **Automaestro** recruits members through competitive programs for each subteam. Whether it's design, simulation, manufacturing, or management, we seek the most dedicated and passionate individuals to push the boundaries of automotive innovation.

Recruitment Phases:

- Phase-1: Assignments
- Phase-2: Interview
- Phase-3: Probation Period

Workshop:

Automaestro hosted a 2-month-long workshop covering **automobile engineering** and simulation tools like **ANSYS Fluent** and **ANSYS Structural** to equip students with industry-relevant skills.

- **Program Focus:** Automotive system analysis, aerodynamics, and structural optimization.
- **Participation:** 150 students joined across three sessions:
 - Automobile Inside Out - 40 Students
 - ANSYS Fluent - 54 Students
 - ANSYS Structural - 56 Students
- **Platform:** Google Classroom
- **Resources & Certification:**
 - Recorded sessions
 - Assignments
 - Certificates

Automaestro Workshop

Key Modules:

- **Automobile Inside Out** – Chassis, Suspension, Steering, Brakes, Engine, Aerodynamics, and Bodywork.
- **ANSYS Fluent** – Fluid dynamics simulations.
- **ANSYS Structural** – Structural analysis & optimization.



End of a Chapter of Growth and Excellence

BUET Automobile Club has always been a great learning platform. It provides an exceptional opportunity to improve the extra-curricular skills like leadership, human resource management, and collaboration with third parties, along with technical skills required for developing an automotive community in BUET and Bangladesh.

During the **Tech Marvels presents OVERDRIVE: BAC Freshers' Reception 2024**, **Dr. Asif Raihan** (former Associate DSW of Club Affairs, BUET) praised the BUET Automobile Club for its growth and achievements throughout the years. He added that BAC now stands as **one of the top 3 clubs in BUET**, and it is the **no. 1 club in terms of activities according to the last 5 years'** club report.

This is an extraordinary feat for the 9th Executive Committee of BAC, which tells how amazing the talents of this club are.

This committee's journey has been one of resilience and innovation, marked by overcoming challenges and embracing opportunities. In a brief yet transformative period, we've not only maintained the club's legacy but also pushed its boundaries, setting new standards for excellence.

With immense gratitude to everyone who supported us, we leave behind a legacy of growth, collaboration, and unwavering dedication to BAC's future.

Sahib-Ur-Rauf

Sahib Ur Rauf

General Secretary

BAC 9th Executive Committee

Approved By

Md. Ashiqur Rahman, PhD

Moderator, BUET Automobile Club

Professor, Dept of Mechanical Engineering, BUET

Find Us at



buetautomobileclub@gmail.com



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