OFF CAMPUS

MIST secures first place in Formula Bharat 2025 Engineering Design CRM

FATIMA ASHRAF

MIST Blitz – the Formula student team from the Department of Mechanical Engineering, Military Institute of Science and Technology (MIST) – has made its remarkable debut in motorsport engineering. In just a few months since its formation, the team has already achieved two significant milestones: securing the first position in the qualifying quiz for Formula Bharat 2025 and also the first place in the Engineering Design Concept Resources Management (CRM) Combustion Category for the same event.

Formula Bharat is the premier student engineering competition in India, modelled after the global Formula Student series. University teams design and build small-scale formula-style race cars, competing in categories like engineering design, cost efficiency, marketability, and so on.

MIST Blitz now operates with 38 dedicated members, divided into four key technical sub-teams. Tahmid Muntasir leads the suspension, steering, and brake systems team; Iram Mustavi Chowdhury and Tausif Nawaz head the chassis and aerodynamics team; Sakin Islam leads the powertrain team, and Adnan Shahriar oversees the electronic control systems team.

Four managerial sub-teams – management and outreach, finance, logistics, and documentation – also work alongside the technical teams to ensure smooth operations. Maliha Farhin and Nazifa Rafa lead the documentation team.

The members expressed their gratitude to the Chief Patron of the team and MIST Commandant, Maj Gen Nasim Parvez, BSP, ndc, afwc, psc, and Head of the Mechanical Engineering Department Brig Gen Md Anisur Rahman, for their invaluable support. They also expressed their gratitude to Maj Md Anisur Rahman, GSO-2 of the Mechanical Engineering Department, for his mentorship, and Lecturer Shah Md Ahasan Siddique for providing resolute guidance and essential resources.

"We are proud of how this team has quickly added two feathers to our automotive crown. MIST Blitz is vital for our department, providing Mechanical Engineering students with hands-on experience, building practical skills, and collaboration which are essential foundations for future challenges in the automotive field," said Ahasan.

After competing in Formula Bharat 2025, scheduled at the Kari Motor Speedway, India, from January 22 to 27, 2025, MIST Blitz aims to target the Formula Student UK, hosted by the Institution of Mechanical Engineers, further expanding their global presence in motorsport engineering.

Fatima Ashraf is a Campus Ambassador for The Daily Star from Military Institute of Science & Technology (MIST).

DUBOTECH

BRACU alumni-led startup redefining possibilities underwater

RITTIQUE BASAK

DuboTech – a deep tech startup led by a group of BRAC University alumni, specialising in cutting-edge underwater technology – has developed ground-breaking ideas that will shape the future of underwater technology and bring innovative solutions.

DuboTech aims to provide innovative solutions by commercialising the use of underwater automated technology or autonomous underwater vehicles (AUVs), which are unmanned and thus, safer and more convenient for staying underwater for prolonged periods.

The Managing Director and CEO of this venture is Nayem Hossain Saikat. DuboTech remains at the centre of innovation due to the technological expertise of its Chairman and Chief Technology Officer (CTO), Sayantan Roy. Abrar Ehsan Nihal, Chief Designer; Simanto Shahriar Dhrubo, Chief Procurement Officer; Soumik Hasan Shranto, Chief Operating Officer; ATM Masum Billah, Chief R&D Officer; Zihadul Karim Xenon, Chief Business Officer; and Motaqabbir Rahman Efti, Principal Software Developer, are also working on the team, committed to expanding the boundaries of what is possible underwater.

The goal of DuboTech is to make life efficient, safer, and easier, especially when it concerns underwater research and other industrial purposes. DuboTech offers services that include ship inspection – where the AUV can quickly check ship hulls for damage and enhance port efficiency, pipeline inspection – where the AUV can detect leaks or damages in underwater pipelines to keep critical infrastructure safe, and infrastructure inspection to examine underwater supports for signs of erosion or damage, ensuring the stability of vital structures.

DuboTech offers rapid, live reports for quick decision-making through its seamless control panel. The panel also gives users access to past reports and project data. Clients can double their inspection speed, reduce expenses by up to 60 percent, and put safety first with DuboTech.

DuboTech has also recently appeared on *Shark Tank Bangladesh* – the Bangladeshi instalment of the Shark Tank franchise – where they managed to reach a wider audience by showcasing the AUV's expert solutions. DuboTech ended up securing a massive investment of BDT 50 lakh and even got access to more resources and facilities in exchange for 10 percent equity.

More than just a business, DuboTech is a brilliant example of efficiency, safety, and innovation. They are redefining the future of marine exploration and truly finding underwater possibilities with their in-house technologies and unwavering pursuit of excellence.

Rittique Basak is a Campus Ambassador for The Daily Star from BRAC University.