



Vishnu Waman Thakur Charitable Trust's  
**VIVA Institute of Technology**

Approved by AICTE, New Delhi, DTE, Government of Maharashtra  
And Affiliated to University of Mumbai

**Department of Mechanical Engineering**

<b>Event Name:</b>	MBAJA SAE INDIA 2021-22
<b>Location:</b>	NATRAX Indore
<b>Participating Team Name:</b>	ARTEMIS RACING INDIA
<b>Vehicle No:</b>	#81
<b>Date:</b>	05-12 April, 2022
<b>Time:</b>	10.00 Onwards

**Programme Summary/Details:**

Team Artemis Racing India, comprising students from the Department of Mechanical Engineering at VIVA Institute of Technology in Virar, participated in the BAJA SAE India M-Baja category competition held at Natrax, Indore. The event took place from 5th April 2022 to 12th April 2022 and featured 81 teams from recognized institutes across India. Our team consisted of 16 students and 1 faculty advisor, and we brought a 4-wheel drive All-terrain Vehicle (ATV) that was manufactured at our college workshop, following the guidelines outlined in the SAE India rulebook.

On 4th April 2022, we transported the fully manufactured vehicle from our college to the event site in Indore. Throughout the competition, we successfully cleared the Validation Test, Engine Test, and Weight Test in the first round. However, during the Technical Inspection round, our team faced elimination due to several reasons. These included a leakage in the drip pan, a malfunctioning accelerator pedal stopper, a brake casing that did not meet the specified standards, and unsatisfactory safety norms, such as sharp edges being visible on the number plate.

Although we were unable to progress to the next round, the students put in a tremendous amount of hard work to manufacture the 4-wheel drive vehicle within a limited timeframe and under challenging conditions. Despite the setback, the experience proved to be a valuable learning opportunity for the entire team, particularly the junior members who had the chance to identify and rectify mistakes while observing the top-performing teams. We are determined to come back stronger and better prepared for next year's competition.

Participating in the BAJA SAE India event provided our team with invaluable hands-on experience in designing, manufacturing, and testing a vehicle in accordance with established standards. It also allowed us to interact with fellow participants from various institutes, fostering knowledge exchange and networking within the engineering community.

We express our sincere gratitude to the management of VIVA Institute of Technology for their support and encouragement throughout the preparation and participation in the event. We also extend our appreciation to our faculty advisor for guiding us and providing valuable insights. Furthermore, we would like to thank all our sponsors for their generous support, without which our participation would not have been possible.

In conclusion, while our team faced challenges and did not advance beyond the Technical Inspection round, the experience gained from participating in the BAJA SAE India competition was invaluable. We are committed to using this experience to improve our skills and knowledge in vehicle design and manufacturing, and we eagerly look forward to returning next year with a stronger and better-prepared team.



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**Photos:**

