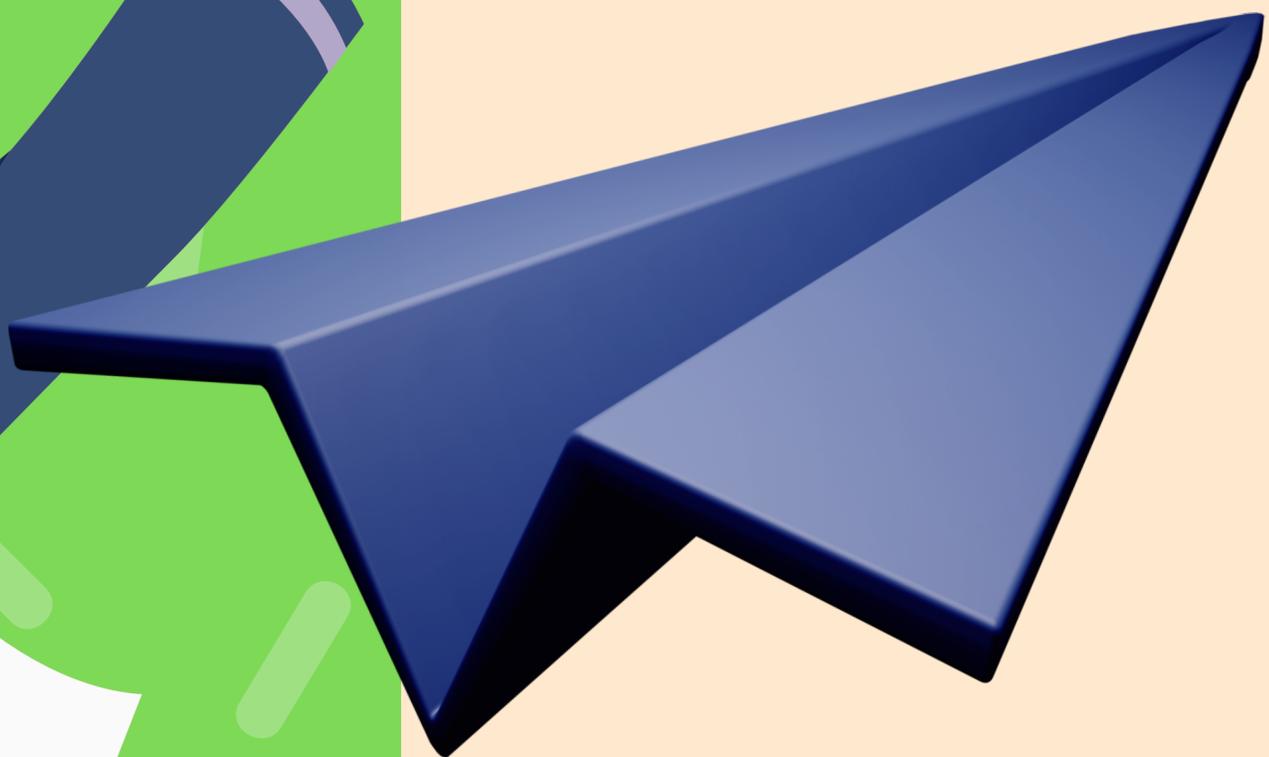




# VIVA Institute of Technology

Department of  
Mechanical Engineering



Student  
Achievements

AY 2021-2022





Shri. Vishnu Waman Thakur Charitable Trust's  
**VIVA Institute of Technology**  
At. Shirgaon, Veer Sawarkar Road, Virar (East) - 401305, Maharashtra.

**Department of Mechanical Engineering**

*Students Achievement Report.*

**Event: SAE AERO DESIGN WEST**

**Host: SAE**

**Venue: Online**

**Position: Participated**

**Student: TEAM ARSYA**

Team ArsyA, The aerodesign team of VIVA successfully participated in the virtuals of SAE Aero Design Competition, held annually.

Total Registered Teams: 75  
Finalized Qualified Teams: 47  
ARSYA Team Overall Rank : **29**

|    |   |               |         |         |        |      |         |
|----|---|---------------|---------|---------|--------|------|---------|
| 23 | 057 - Univ of Calif - Davis             | United States | 12.5065 | 28.6250 | 0.0000 | -4.0 | 37.1315 |
| 24 | 043 - California State Univ - Fullerton | United States | 2.7488  | 28.7250 | 0.0000 | -    | 31.4738 |
| 25 | 045 - Univ of Portland                  | United States | 6.7574  | 23.8875 | 0.0000 | -    | 30.6449 |
| 26 | 033 - Iowa State Univ                   | United States | 24.6070 | 0.0000  | 0.0000 | -    | 24.6070 |

| Standings | University (Team)                       | Country       | Design Scores | Presentation Scores | Mission Performance Scores | Technical Inspection Deductions | Overall Scores |
|-----------|---|---------------|---------------|---------------------|----------------------------|---------------------------------|----------------|
| 27        | 048 - Univ of Wisconsin - Platteville   | United States | 2.8607        | 21.0875             | 0.0000                     | -9.0                            | 14.9482        |
| 28        | 027 - Embry-Riddle Aero Univ - Prescott | United States | 3.6269        | 0.0000              | 0.0000                     | -                               | 3.6269         |
| 29        | 013 - Viva Institute of Technology      | India         | 3.5693        | 0.0000              | 0.0000                     | -                               | 3.5693         |



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## **Department of Mechanical Engineering**

### *Students Achievement Report.*

**Event: The Journey Challenge E BAJA Virtuals**

**Host: SAE India**

**Venue: Online**

**Position: Participate**

**Student: Team Aries**

Team Artemis Racing India from Department of Mechanical Engineering of VIVA Institute of Technology, Virar had participated in BAJA SAE India M-Baja category competition at Natrax, Indore. The competition is scheduled from 5<sup>th</sup> April 2022 to 12<sup>th</sup> April 2022. There were 81 teams across the India from various recognized Institutes participated in the event. We were the team of 16 students along with 1 faculty advisor attended the event with 4 - wheel drive ATV (All-terrain vehicle). Team has manufactured 4 wheel drive vehicle (ATV) at college workshop as per mentioned in SAE India rulebook. On 4<sup>th</sup> April 2022 team transported fully manufactured vehicle from college to event site in Indore. During the competition Team has successfully cleared **Validation Test, Engine Test and Weight Test** to pass round 1. In the round of Technical Inspection Team got eliminated because of following reasons.

1. Leakage in drip pan
2. Accelerator pedal stopper didn't work
3. Brake casing is not as per mentioned standards
4. Safety norms not satisfactory like sharp edges visible on number plate.

Though team could not make it to next round, students have done hard work to make 4-wheel drive vehicle in limited time and critical conditions. However, it was a great learning experience for all team especially for junior team members to rectify mistakes and learn from top teams. Hopefully team will come back stronger and well prepared next year.

