

DEPARTMENT OF MECHANICAL ENGINEERING

Event Name: Hovercraft Racing Competition

Date: 27.03.24

Location: BSACIST, MS Block (I Floor)

Host: ASME Student Section, Department of Mechanical Engineering, BSACIST, Chennai

Introduction & Inauguration:

The ASME student Section, Department of Mechanical Engineering, B S Abdur Rahman Crescent Institute of Science and Technology, Chennai hosted an electrifying Hovercraft Racing Student Competition, showcasing the ingenuity and talent of young engineers and enthusiasts, held at Mechanical Sciences Block (Seminar hall III floor) on 27.03.2024, the event brought together students from various departments to compete in a thrilling display of technological innovation and racing prowess. The competition event inaugurated by our Prof. Dr. H Siddhi Jailani/Dean (SMS) and Prof. Dr. A.S. Selvakumar/HoD (Mech).



Photo 1: Inauguration Event



Photo 2: Inaugural Address

Participants:

The competition attracted teams of students from different departments, each tasked with designing, building, and piloting their own hovercraft. These budding

engineers and enthusiasts eagerly embraced the challenge, bringing their unique perspectives and creativity to the table.

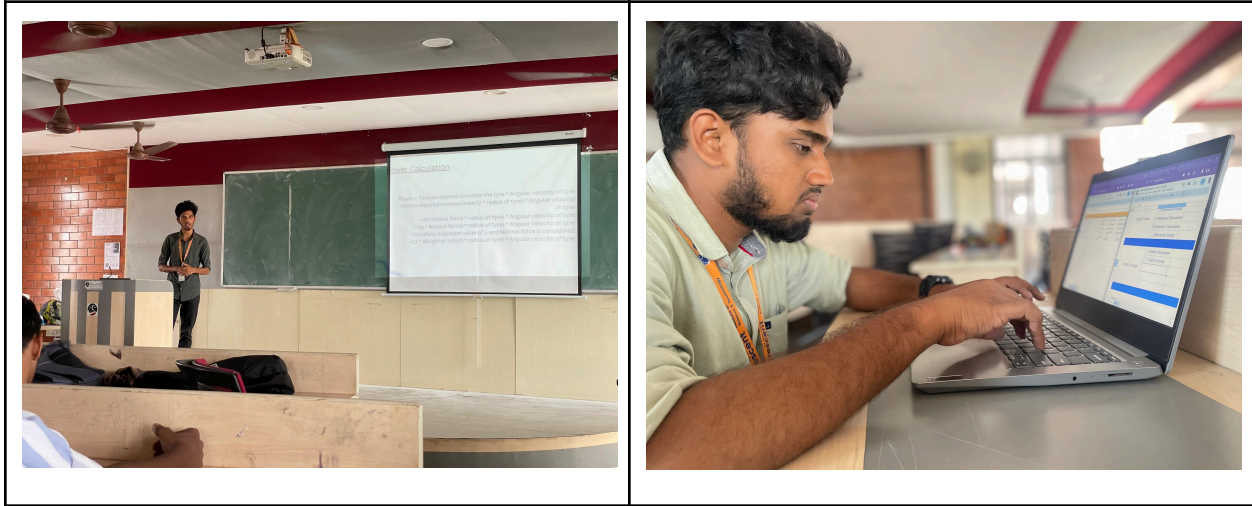


Photo 3: Brief introduction and presentation by Mr. Naseem and Mr. Muhsin



Photo 4: Design calculations by the participants

Event Highlights:

Design Presentations: Prior to the races, each team presented their hovercraft design to a panel of judges, outlining their engineering approach, materials used, and innovative features. This segment provided an opportunity for students to showcase

their technical knowledge and problem-solving skills, setting the stage for the races to come.



Photo 5: Design inspections by the Judges

Technical Inspections:

Following the design presentations, all hovercraft underwent rigorous technical inspections to ensure compliance with safety regulations and technical specifications. Teams demonstrated their attention to detail and commitment to safety as they prepared their hovercraft for the races.

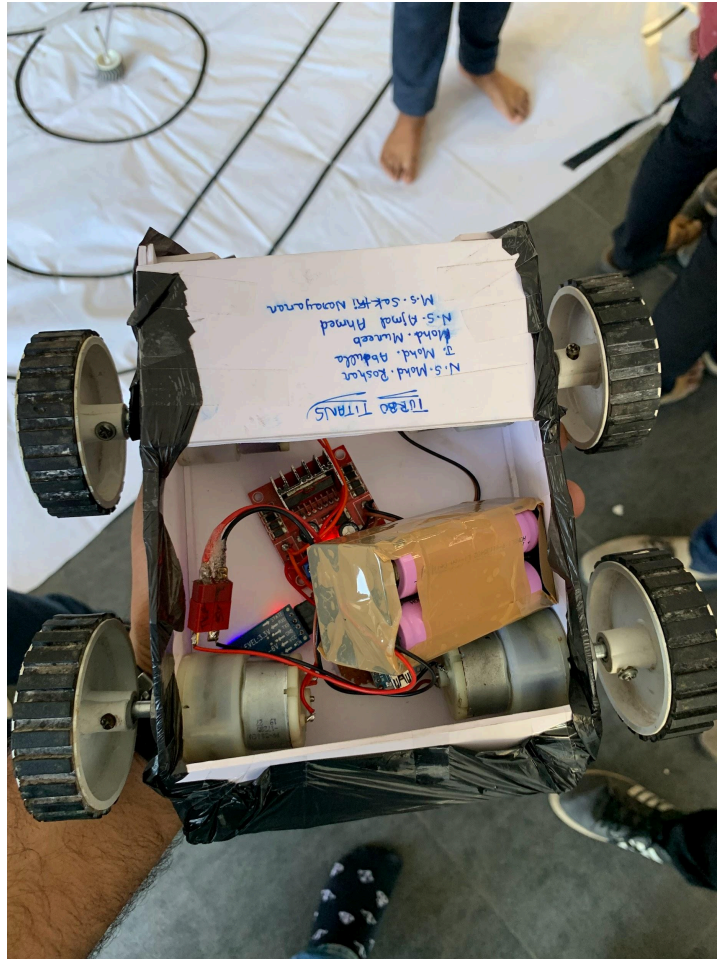


Photo 6: Hovercraft (Designed by participants)

Racing Challenges:

The main highlight of the event was the series of racing challenges designed to test the speed, agility, and maneuverability of the hovercraft. Teams competed in a variety of races, including time trials, obstacle courses, and head-to-head matchups, each demanding different skills and strategies.



Photo 7: Track prepared by the students

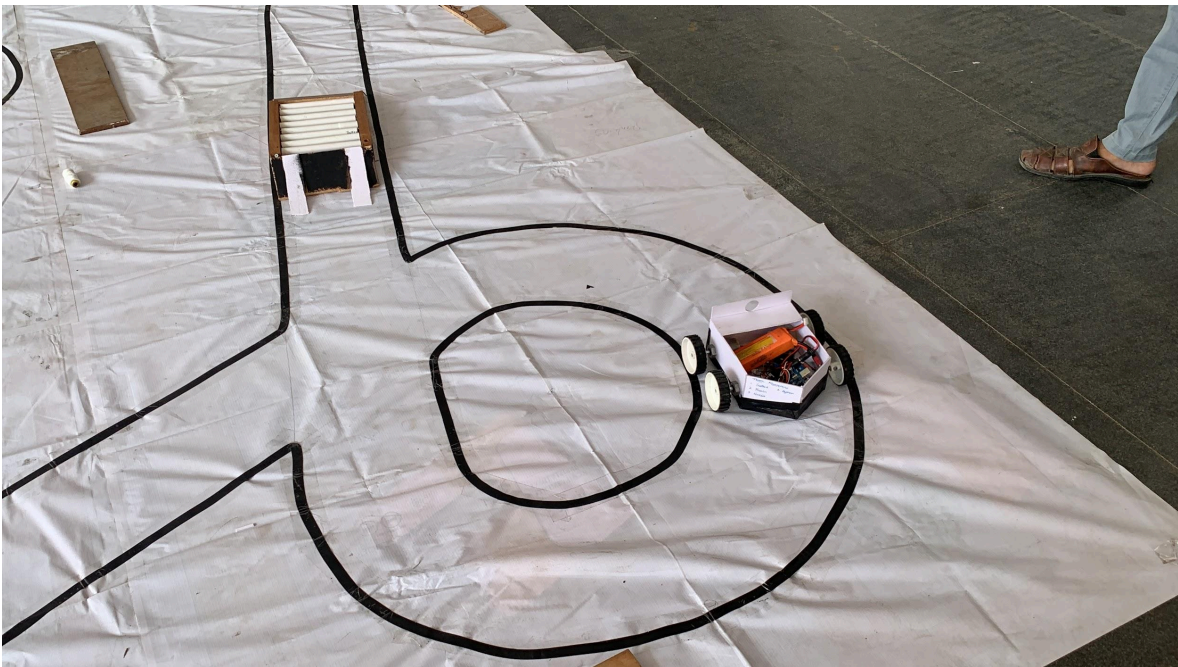


Photo 8: Track performances of the vehicle (ground)



Photo 9: Track performances of the vehicle (Water)

Innovation Showcase:

In addition to the races, the event featured an innovation showcase where teams demonstrated the unique features and capabilities of their hovercraft. From advanced propulsion systems to novel control mechanisms, students showcased a wide range of innovative technologies, inspiring creativity and collaboration among participants.

Team Spirit and Collaboration:

Throughout the event, a strong sense of sportsmanship was evident among the participating teams. Students cheered each other on, exchanged ideas and tips, and celebrated each other's achievements, fostering a supportive and collaborative atmosphere.



Photo 10. Team work

Winners and Awards:

At the conclusion of the event, awards were presented to the top-performing teams in various categories, including speed, agility, design innovation, and overall performance. These awards recognized the hard work, dedication, and creativity of the students, motivating them to continue exploring the exciting world of hovercraft technology.

Team **MEROTON** were winners after an exciting race full of near misses and amazing moves. **GOODFELLAS** Teams bagged the second position, and the **TITAN** teams got the third position.



Photo 10: Sample certificate distributed to the participants

Conclusion:

The Hovercraft Racing Student Competition was a resounding success, providing students with a unique opportunity to apply their engineering skills in a hands-on, real-world setting. As participants and spectators alike departed with memories of thrilling races and innovative designs, the event left a lasting impression on the local academic community, inspiring future generations of engineers and technologists to push the boundaries of hovercraft technology.

List of Participants:

Sl. No	Name	Department	Year of study	RRN
1	BALASABARISH T S	Mechanical	III	210021602002
2	M J DEVANAND	Mechanical	III	210021601018

3	MOHAMMED MUDASSIR BASHA	Mechanical	I	230021601030
4	JOSE SAMRAJ	Mechanical	III	210021601029
5	AYYAASH IQBAL	Mechanical	II	220021601011
6	SATHICK.A.S	Mechanical	I	230021601040
7	BHARANI DHARAN N	Mechanical	III	210021601016
8	IRSHAD GSI	Mechanical	III	210021601027
9	M.S. NITHIN	Mechanical	I	230021601034
10	FOUZAN QASIM	Mechanical	II	220021601017
11	PRAVIN RAJAN	Mechanical	I	230021601035
12	MOHAMMAD ASHIK A	Mechanical	III	210021602005
13	MANOJ K	Mechanical	III	210021601031
14	MOHAMED SHAKI	Mechanical	I	230021601031
15	HARRIS RAHMAN.S	Mechanical	I	230021601015
16	P MOHAMED RAFI	Mechanical	II	220021602013
17	AMEERUL AYMAN.M	Aeronautical	I	230091601002
18	MOHAMMED JASIM	Mechanical	III	210021601055
19	MOHAMMAD AADHIL	Mechanical	III	210021601034
20	SAKTHI NARAYANAN	Mechanical	I	230021601039
21	MOHAMED AATHIL	Mechanical	III	210021601035
22	MOHAMMED MOHSIN	Mechanical	III	210021601056
23	HAFIZ AHAMED	Mechanical	III	210021601020
24	AJMAL AHMED N S	Mechanical	I	230021601003
25	HANEEF JAFEER	Mechanical	III	210021601023
26	MOHAMMED IJAS	Mechanical	III	210021601054
27	MOHAMMED ARSHAD	Mechanical	III	210021601091
28	MOHAMMED MUNEEB	Mechanical	I	230021601021
29	MOHAMED ABDUL AZEEZ	Mechanical	III	210021601049
30	MOHAMMAD ASLAM	Mechanical	III	210021601039

31	MOHAMED ROSHAN.N.S	Mechanical	I	230021601025
32	MOHAMED IRFAN	Mechanical	III	210021601059
33	SHAHUL	Mechanical	III	210021601076
34	J.MOHAMED ABDULLA	Mechanical	I	230021601018
35	JAYASURIYA B	Mechanical	I	230021601010