ROBOTICS 2K26

Annual Robotics Competition

Official Event Report

Line Follower | Robo Race | Robo War

Total Registered Teams: 11 | Total Participants: 58
Report Date: June 2026

Subject: A comprehensive technical report on the Intra-College Robotics Competition organized by all the departments of the college, detailing the event structure, participating teams, judging process, and final results.

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Co. Managed by: ***Subhrangsu Das*** *(CSE/23/115)*

1. Introduction

Robotics 2K26 brought together student teams from across departments to design, build, and operate autonomous and remote-controlled robots in three competitive formats: Line Follower, Robo Race, and Robo War. The event aimed to encourage hands-on engineering skills, teamwork, and innovation in embedded systems and robotics.

A total of 11 teams comprising 58 participants registered across the three events. Teams were scheduled across three slots – **Slot 1: Friday(29/05/26), 2:30 PM to 6 PM , Slot 2 : Saturday(30/05/26), 9:0 AM to 12:30 PM** and **Slot 3: Saturday(30/05/26)**, **2:30 PM to 6 PM** – to ensure a smooth conduct of all rounds.

2. Competition Events

2.1 Line Follower

In this event, an Arduino-based autonomous bot is required to follow a black line drawn on the race sheet without manual intervention. Teams are judged on speed, accuracy, and the bot's ability to stay on track through curves and turns using line-sensing logic.

2.2 Robo Race

Robo Race requires a manually operated bot to navigate a race track featuring a series of hurdles, each carrying a different point value. Points are awarded for successfully clearing each hurdle, while penalties apply for restarting a run, using hands to reposition the bot on track, or skipping a hurdle altogether. The team with the highest net score at the end of the run is ranked higher.

2.3 Robo War

Robo War is a head-to-head combat event in which two bots fight against each other within a fixed time limit. Points are awarded for successful hits and combos landed on the opposing bot, and the team accumulating the higher score by the end of the bout is declared the winner of that round.

3. Participation Summary

The table below summarises the number of registered teams and total participants for each event.

Event	Registered Teams	Slot Schedule
Line Follower	8	Slot 1
Robo Race	6	Slot 2
Robo War	6	Slot 3
Total Registered Teams (Overall)	**11**	**—**

3.1 Overall Team Directory

The following teams were registered for Robotics 2K26, along with the events they participated in.

Team Name	Team Leader	College Roll No.	Events Participated
Robolog	Gourab Biswas	CSE/24/046	Robo War, Robo Race
Botzilla	Uruj Haider	CSE/25/292	Robo War, Robo Race
Robo-Sapiens	Mahavis Alam	CSE/25/048	Robo War, Robo Race, Line Follower
Phoenix	Sayan Samanta	ECE/24/011	Robo Race
Quantum Gear	Ranit Roy	ECE/25/04	Line Follower
Ard Infinity	Arunava Das	AIML/25/113	Robo War, Robo Race, Line Follower
Yukti	Nayan Mondal	ECE/25/06	Line Follower
Roboverse	Nibedita Das	ECE/24/015	Robo War, Robo Race, Line Follower
Trace IQ	Diyasi Nag	ECE/23/04	Line Follower
Flashtrack	Sastika Majumdar	AIML/24/014	Line Follower
AutoBots	Soumalya Chatterjee	AIML/25/051	Robo Race, Line Follower

4. Event Wise Registered Teams

4.1 Line Follower – Registered Teams (8)

Team Name	Team Leader	College Roll No.
Robo-Sapiens	Mahavis Alam	CSE/25/048
Quantum Gear	Ranit Roy	ECE/25/04
Ard Infinity	Arunava Das	AIML/25/113
Yukti	Nayan Mondal	ECE/25/06
Roboverse	Nibedita Das	ECE/24/015
Trace IQ	Diyasi Nag	ECE/23/04
Flashtrack	Sastika Majumdar	AIML/24/014
AutoBots	Soumalya Chatterjee	AIML/25/051

4.2 Robo Race – Registered Teams (6)

Team Name	Team Leader	College Roll No.
Robo-Sapiens	Mahavis Alam	CSE/25/048
Robolog	Gourab Biswas	CSE/24/046
Phoenix	Sayan Samanta	ECE/24/011
Ard Infinity	Arunava Das	AIML/25/113
Botzilla	Uruj Haider	CSE/25/292
Roboverse	Nibedita Das	ECE/24/015

4.3 Robo War – Registered Teams (6)

Team Name	Team Leader	College Roll No.
Robo-Sapiens	Mahavis Alam	CSE/25/048
Robolog	Gourab Biswas	CSE/24/046
Botzilla	Uruj Haider	CSE/25/292
Ard Infinity	Arunava Das	AIML/25/113
Roboverse	Nibedita Das	ECE/24/015
Phoenix	Sayan Samanta	ECE/24/011

4.4 Members of the Technical Activities Committee

Sl. No	Name
1.	Prof. (Dr.) Deb Kumar Adak
2.	Prof. (Dr.) Indrajit Ghosh
3.	Prof. Debottam Das
4.	Prof. Rinku Khatua
5.	Mr. Biswajit Majumder
6.	Mr. Saradindu Chakraborty

4.5 Student Volunteers for These Robo Events

Sl. No	College Roll No	Student Names
1.	CSE/23/016	Debosmita Samanta
2.	CSE/23/115	Subhrangsu Das
3.	CSE/23/145	Nayana Manna
4.	ECE/23/16	Sreejan Das
5.	ECE/23/14	Sohima De
6.	ECE/23/17	Sourav Ghosh
7.	ECE/23/29	M. Khushi
8.	EE/23/11	Rupankar Manna
9.	EE/23/23	Debopriyo Jana
10.	EE/23/28	S. Tejaswar
11.	AIML/23/01	Amritesh Das
12.	AIML/23/24	Subham Das
13.	AIML/23/35	Dipanjan Manna

5. Results

The final standings for each event are presented below.

5.1 Line Follower – Final Standings

Position	Team Name	Team Leader
1st	Ard Infinity	Arunava Das
2nd	AutoBots	Soumalya Chatterjee
3rd	Roboverse	Nibedita Das

5.2 Robo Race – Final Standings

Position	Team Name	Team Leader
1st	Robo-Sapiens	Mahavis Alam
2nd	Phoenix	Sayan Samanta
3rd	Roboverse	Nibedita Das

5.3 Robo War – Final Standings

Position	Team Name	Team Leader
1st	Robolog	Gourab Biswas
2nd	Phoenix	Sayan Samanta
3rd	Robo-Sapiens	Mahavis Alam

6. Highlights & Notable Performances

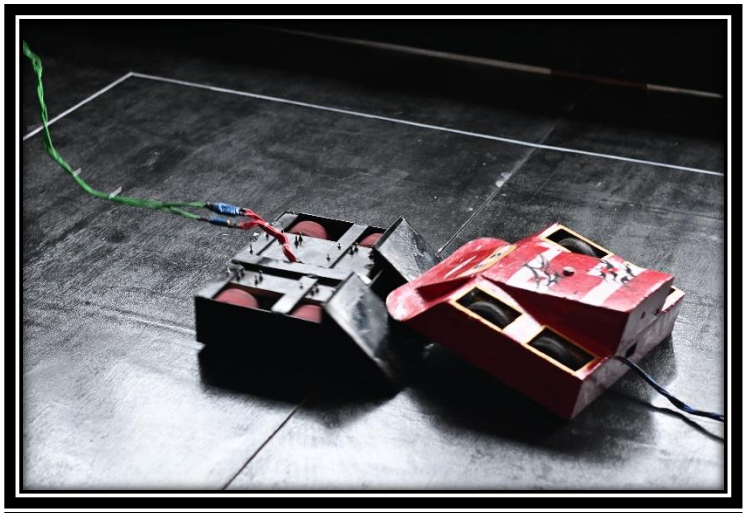
Several teams delivered standout performances across multiple events:

- Roboverse secured podium finishes in both Line Follower (3rd) and Robo Race (3rd), reflecting consistent performance across categories.
- Phoenix claimed second place in both Robo Race and Robo War, demonstrating strong all-round bot design.
- Robo-Sapiens finished on the podium in Robo Race (1st) and Robo War (3rd), making it one of the most versatile teams of the event.
- Ard Infinity topped the Line Follower event, showcasing precise sensor calibration and control logic.
- Robolog dominated the Robo War arena, taking the top spot with consistent hits and combos.

7. Conclusion

Robotics 2K26 concluded successfully with enthusiastic participation across all three events. The competition showcased the participants' growing expertise in embedded systems, autonomous navigation, mechanical design, and combat robotics. The organizing committee congratulates all winners and participating teams, and looks forward to an even bigger turnout in the next edition.

8. Photos

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Google


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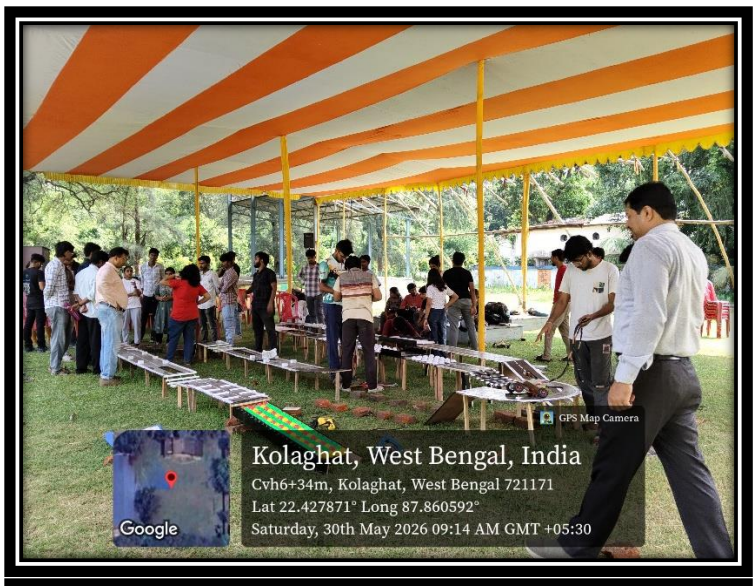
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ROBOTICS
2K26
ROBO RACE
ROBO WAR
LINE FOLLOWER
ORGANISED BY
TECHNICAL ACTIVITIES COMMITTEE (TAC)
COLLEGE OF ENGINEERING AND MANAGEMENT KOLAGHAT
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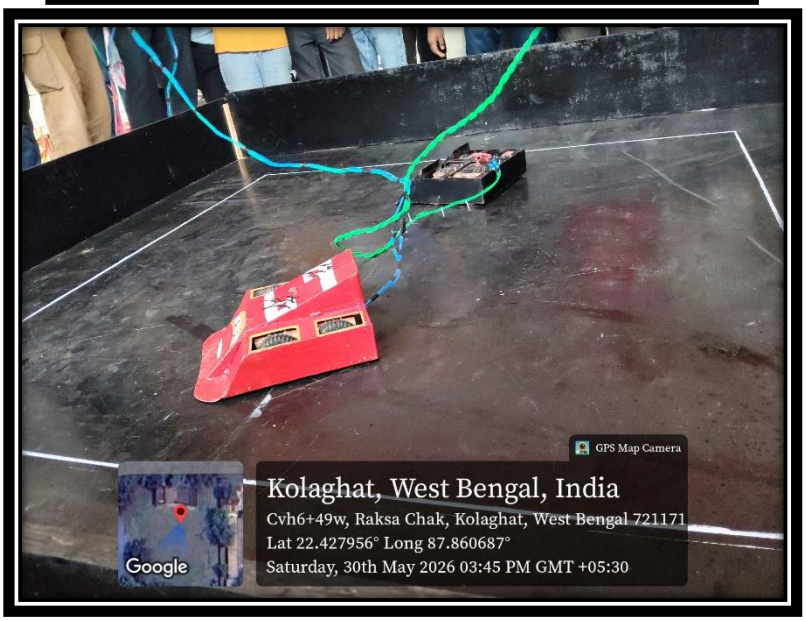
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