

EVENT REPORT

TECHNOXIAN 2026 – Eastern Zonal Round

Eastern India's Largest Robotics Championship

Event: TECHNOXIAN 2026 – World Robotics Championship 10.0 (Eastern Zonal Round)

Date: 25–26 July 2026

Venue: Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SURTECH), Kolkata, West Bengal

Organized by: World Robotics Sports Organization (WORSO) in association with the All India Council for Robotics & Automation (AICRA)

Host Institution: Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SURTECH), JIS Group

Introduction

The **Eastern Zonal Round of TECHNOXIAN 2026**, the 10th edition of the prestigious **World Robotics Championship**, was successfully organized on **25th and 26th July 2026** at **Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SURTECH), Kolkata**.

Recognized as **Eastern India's Largest Robotics Championship**, the event brought together **nearly 100 teams comprising more than 400 participants** from schools, colleges, and universities across Eastern India. The two-day championship provided an exceptional platform for young innovators to showcase their technical expertise, creativity, engineering skills, and teamwork through **11 exciting robotics and technology-based competitions**.

Organized by the **World Robotics Sports Organization (WORSO)** in association with the **All India Council for Robotics & Automation (AICRA)**, the championship promoted innovation, experiential learning, and technological excellence while preparing students for national and international robotics competitions. The event also strengthened collaboration among academia, industry, and research organizations, contributing to the advancement of robotics and innovation in Eastern India.

Objectives

The major objectives of organizing **TECHNOXIAN 2026 – Eastern Zonal Round** were:

- To provide a national-level platform for students to showcase their talent in Robotics, Artificial Intelligence, Automation, Drone Technology, and STEM-based innovations.
- To encourage innovation, creativity, and engineering problem-solving through practical robotics competitions.

- To bridge the gap between academic learning and industrial applications by promoting experiential learning.
- To inspire students towards research, product development, entrepreneurship, and technology-driven innovation.
- To identify talented teams for participation in the National and International Rounds of the World Robotics Championship.
- To promote interdisciplinary collaboration among educational institutions, industries, and research organizations.
- To encourage indigenous technology development aligned with the vision of **Atmanirbhar Bharat, Digital India, and Industry 4.0.**
- To create awareness about sustainable engineering solutions through demonstrations of renewable energy and intelligent automation.

Eminent Dignitaries

The ceremony was graced by eminent dignitaries from academia, industry, and government, including:

- **Mr. Arijit Bakshi**, Honourable MLA, Govt. of West Bengal
- **Sardar Taranjit Singh**, Managing Director, JIS Group
- **Mr. Raj Sharma**, President, All India Council for Robotics & Automation (AICRA)
- **Ms. Alka Singh**, Vice President, All India Council for Robotics & Automation (AICRA)
- **Dr. Debdutta Guha**, GM , MSME, Govt. of India
- **Prof. (Dr.) Saradindu Panda**, Principal, Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SURTECH)
- **Dr. Soumen Basu**, Registrar, SurTech
- **Dr. Debashis De**, Professor, MAKAUT, WB

The distinguished guests inaugurated the championship and appreciated SURTECH's efforts in promoting robotics, innovation, and technology-driven education. They emphasized the importance of research, innovation, entrepreneurship, and skill development in preparing students for the rapidly evolving world of Industry 4.0.

Program Conveners

- **Dr. Ankush Ghosh**, Adjunct Professor, Department of ECE, SPOC, Technoxian 2026
- **Dr. Arindam Sadhu**, Assistant Professor, Department of ECE, Convener, Technoxian 2026
- **Dr. Anirban Neogi**, Assistant Professor, Department of ECE, Joint Convener, Technoxian 2026

Participation and Competition Categories

TECHNOXIAN 2026 witnessed enthusiastic participation from **nearly 100 teams comprising more than 400 participants** over the two-day championship. Students from schools, colleges, and universities across Eastern India actively participated in various robotics events, demonstrating technical excellence, innovation, and teamwork.

The championship featured **11 exciting robotics and technology competition categories**, namely:

1. **Robo Soccer**
2. **Robo Race**
3. **RC Craft**
4. **RC Car**
5. **Innovation Contest**
6. **Drone Challenge**
7. **Maze Solver**
8. **Line Follower**
9. **Sumo Bot**
10. **Water Rocket**
11. **Robo War**

Each competition tested participants' knowledge and practical skills in robotics, electronics, embedded systems, automation, artificial intelligence, programming, mechanical design, and engineering problem-solving. The championship also served as the qualifying round for the National Level of the TECHNOXIAN World Robotics Championship.

Launch of Indigenous Innovations

One of the major highlights of TECHNOXIAN 2026 was the launch of two innovative technologies developed at SURTECH.

1. SURVIA – Surtech Virtual Information Assistant

SURTECH officially launched **SURVIA (Surtech Virtual Information Assistant)**, an AI-powered intelligent robotic assistant jointly developed by the **AICTE IDEA Lab, Centre of Excellence (COE) Livid Design Inc.**, and the **Department of Electronics & Communication Engineering**.

SURVIA has been designed to:

- Welcome visitors and guests.

- Provide institutional information.
- Guide visitors across the campus.
- Offer AI-enabled interactive assistance.
- Demonstrate intelligent human-robot interaction.

The project reflects SURTECH's commitment to developing indigenous AI-enabled robotic systems for real-world applications

2. Wind and Solar Driven Mobile Charging Unit

Another significant innovation launched during the event was the **Wind and Solar Driven Mobile Charging Unit**, jointly developed by the **AICTE IDEA Lab, Centre of Excellence (COE) Livid Design Inc.**, and the **Department of Electronics & Communication Engineering**.

The charging system utilizes both **solar and wind energy** to provide sustainable mobile charging solutions. The project demonstrates the practical application of renewable energy technologies while promoting environmentally responsible engineering solutions.

Messages from the Dignitaries

During the inaugural session, the dignitaries highlighted that robotics, artificial intelligence, and automation are transforming industries worldwide. They encouraged students to actively participate in research, innovation, experimentation, and entrepreneurship.

The leadership of JIS Group appreciated SURTECH's continuous efforts in developing advanced research infrastructure such as the **AICTE IDEA Lab** and emphasized that platforms like TECHNOXIAN inspire young innovators to convert creative ideas into practical technologies for societal development.

Media Coverage

The successful organization of TECHNOXIAN 2026 received extensive coverage in leading Bengali and Hindi newspapers, online news portals, and digital media platforms. The media prominently highlighted:

- Eastern India's Largest Robotics Championship.
- Participation of nearly **100 teams** with **more than 400 participants**.
- Successful organization of **11 robotics and technology competition categories**.
- Launch of **SURVIA – Surtech Virtual Information Assistant**.
- Launch of the **Wind and Solar Driven Mobile Charging Unit**.
- SURTECH's contribution towards robotics education, innovation, and sustainable technology.

The extensive media coverage significantly enhanced the visibility and reputation of SURTECH and JIS Group as pioneers in robotics education, innovation, and experiential learning.

Outcomes

The successful organization of **TECHNOXIAN 2026 – Eastern Zonal Round** resulted in the following outcomes:

- Nearly **100 teams** and **more than 400 participants** successfully participated over two days.
- Eleven competition categories provided participants with exposure to diverse domains of robotics, automation, and emerging technologies.
- Students demonstrated outstanding creativity, teamwork, technical competence, and engineering problem-solving skills.
- **SURVIA (Surtech Virtual Information Assistant)** was successfully launched, showcasing SURTECH's capabilities in Artificial Intelligence and Robotics.
- The **Wind and Solar Driven Mobile Charging Unit** demonstrated practical renewable energy applications for sustainable development.
- The championship strengthened collaboration between academia, industry, the **World Robotics Sports Organization (WORSO)**, and the **All India Council for Robotics & Automation (AICRA)**.
- Participants gained valuable hands-on experience in Robotics, Artificial Intelligence, Automation, Embedded Systems, IoT, Drone Technology, and Industry 4.0 technologies.
- The event promoted innovation, entrepreneurship, research culture, and experiential learning among students and faculty members.
- Extensive media coverage enhanced the institutional reputation of SURTECH and JIS Group at regional and national levels.
- The championship reinforced SURTECH's position as a leading hub for robotics, innovation, and technology-driven education in Eastern India.

Conclusion

TECHNOXIAN 2026 – Eastern Zonal Round was a landmark event celebrating innovation, engineering excellence, and technological advancement. With the participation of **nearly 100 teams comprising more than 400 participants** across **11 exciting competition categories**, the championship successfully provided a vibrant platform for young innovators to demonstrate their expertise in robotics, artificial intelligence, automation, drones, and emerging technologies.

The launch of **SURVIA (Surtech Virtual Information Assistant)** and the **Wind and Solar Driven Mobile Charging Unit** showcased SURTECH's commitment to indigenous technology development, sustainable engineering, and real-world innovation. The enthusiastic participation of students, the guidance of eminent dignitaries, the collaboration with the **World Robotics Sports Organization (WORSO)** and **AICRA**, and the widespread media recognition collectively made the event a grand success.

TECHNOXIAN 2026 reaffirmed **Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SURTECH)** as a leading center for robotics, innovation, research, and experiential learning in Eastern India. The championship inspired the next generation of engineers, innovators, and entrepreneurs while strengthening the institution's vision of contributing to **Atmanirbhar Bharat, Digital India, and Viksit Bharat 2047** through cutting-edge technology, research, entrepreneurship, and innovation.

Some glimpses are also attached for your kind reference.