

India's Biggest Ever First-Time Physical AI & Robotics Challenge

CuriousPARC

OFFICIAL THEMES & PROBLEM STATEMENTS

AUTOMATE INNOVATE DOMINATE

ORGANISED BY CURIOTINKER INNOVATION LLP &
S2P ROBOTICS PVT LTD



About the Challenge

CuriousPARC 2026 is a national-level innovation and technology challenge focused on Artificial Intelligence, Robotics, Automation, IoT, Computer Vision, and Future Technologies.

Students are expected to build innovative projects, research prototypes, AI models, robotics systems, hardware solutions, or intelligent software platforms capable of solving real-world industrial and societal problems.

Students can participate individually or in teams.

THEME 1: Open Innovation

Problem Statements

- Real-World Problem Solving
- Social Impact Innovation
- Sustainability Solutions
- Smart Community Solutions
- Educational Innovation
- Healthcare Innovation
- Environmental Solutions
- Industrial Innovation
- Public Safety Solutions
- Future Technology Concepts
- Open Innovation Challenge

Description for Students

The Open Innovation category is designed for participants who wish to solve important real-world challenges that may not directly fit under the predefined competition themes.

Students are encouraged to identify problems faced by society, industries, communities, businesses, governments, educational institutions, healthcare systems, or environmental sectors and develop innovative solutions using any suitable technology.

Participants may use:

- Artificial Intelligence
- Robotics
- IoT
- Computer Vision
- Embedded Systems
- Automation
- Cloud Computing
- Mobile Applications
- Web Technologies
- Emerging Technologies

Students can create:

- Smart Community Platforms
- Healthcare Technology Solutions
- Educational Technology Platforms
- Sustainability Projects
- Disaster Management Systems
- Accessibility & Inclusion Solutions
- Public Safety Technologies
- Smart Governance Solutions
- Industry Automation Platforms
- Any Innovative Technology Solution solving a real-world problem

The objective is to encourage creativity, interdisciplinary innovation, and impactful problem-solving that can create measurable benefits for society, industry, and future generations.

Additional Rule for Open Innovation

Projects submitted under the Open Innovation category must:

- Clearly define the problem being solved.
- Demonstrate innovation and originality.
- Present a feasible and implementable solution.
- Explain the expected impact and benefits.
- Showcase technical implementation wherever applicable.
- Demonstrate real-world relevance and scalability.

Projects that address significant societal, industrial, environmental, healthcare, educational, or sustainability challenges may receive additional consideration during evaluation.

THEME 2: Agentic AI

Problem Statements

- Open Innovation in Agentic AI
- Autonomous AI Agents
- Multi-Agent Systems
- AI Planning & Task Execution
- AI Workflow Automation
- Intelligent Decision-Making Systems
- AI Research Agents
- Personal AI Assistants
- Enterprise AI Agents
- Human-AI Collaboration Systems

Description for Students

Agentic AI represents the next evolution of Artificial Intelligence, where AI systems can independently understand goals, plan actions, make decisions, use tools, collaborate with other agents, and execute tasks with minimal human intervention.

Participants are encouraged to build intelligent systems capable of autonomous reasoning, problem-solving, workflow management, and real-world decision making.

Students can create:

- Personal AI Assistants
- Autonomous Research Agents
- AI Business Automation Systems
- AI Project Management Agents
- Customer Support Agents
- AI-powered Learning Assistants
- Healthcare AI Agents
- Multi-Agent Collaboration Platforms
- Enterprise Productivity Agents
- AI Systems capable of planning and executing complex tasks

The objective is to develop intelligent autonomous systems capable of reasoning, planning, decision-making, and executing real-world tasks efficiently while collaborating with humans and other AI systems.

THEME 3: Computer Vision

Problem Statements

- 2D to 3D Depth Estimation Models
- Behaviour Analysis
- Scene Understanding
- Efficient OCRs
- Automatic Data Annotation Pipeline

Description for Students

This theme focuses on enabling machines to understand images, videos, environments, and human behaviour using AI and Computer Vision technologies.

Students can create:

- Smart Surveillance Systems
- Face Recognition Systems
- Intelligent OCR Platforms
- AI-based Monitoring Systems
- Behaviour Tracking Solutions
- Scene Understanding Models
- Automated Annotation Tools

The objective is to build intelligent visual systems capable of real-time analysis and automation.

THEME 4: Internet of Things (IoT)

Problem Statements

- Smart Automation Systems
- Smart Agriculture Solutions
- Industrial IoT Monitoring
- Energy Monitoring Systems
- Smart Home Automation
- Sensor-based Intelligent Systems

Description for Students

This theme focuses on connecting physical devices through the internet to build intelligent and automated ecosystems.

Students can create:

- Smart Irrigation Systems

- Smart Energy Monitoring
- Smart City Solutions
- IoT Security Systems
- Environmental Monitoring Platforms
- Industrial Monitoring Systems

The objective is to create connected smart systems using sensors, cloud computing, and automation technologies.

THEME 5: Web & App Development

Problem Statements

- Medical & Emergency Alert System
- 3D Game Development Using Unity & Unreal
- Smart hospital Queue Management System
- Skill-to-Job Matching Platform
- Smart Campus Management System

THEME 6: AI Model Optimization

Problem Statements

- Model Orchestration (Ease of Deployment)
- Quantization (Efficiency Improvement)

Description for Students

This theme focuses on optimizing AI models to improve deployment efficiency, speed, memory usage, and hardware compatibility.

Students can work on:

- Lightweight AI Models
- Edge AI Systems
- TinyML Applications
- AI Deployment Frameworks
- Mobile AI Optimization
- Real-Time AI Inference Systems

The objective is to make AI systems faster, lighter, and deployable on real-world devices.

THEME 7: Build Your Own Boards

Problem Statements

- Maker Boards (Prototyping Boards)
- Multipurpose Boards
- Multi-board Integration

Description for Students

This theme focuses on designing custom hardware boards and embedded systems for robotics, IoT, automation, and AI applications.

Students can develop:

- Embedded Development Boards
- Sensor Integration Platforms
- Robotics Control Boards
- IoT Hardware Systems
- Multipurpose Electronics Platforms
- AI-enabled Hardware Solutions

The objective is to encourage hardware innovation and practical embedded system design.

THEME 8: Conversational Voice Assistant

Problem Statements

- Wake Word Algorithm
- Intercept Detection
- Flawless & Natural Voice

Description for Students

This theme focuses on developing intelligent voice-based systems using Speech Recognition, Audio Intelligence, and Natural Language Processing.

Students can develop:

- AI Voice Assistants
- Multilingual Voice Systems
- Voice Controlled Robots
- Smart Home Voice Controllers

- Real-Time Speech Systems
- AI Customer Support Assistants

The objective is to create natural, human-like conversational AI systems.

THEME 9: General Robotics

Problem Statements

- Defence Related Solution
- Manufacturing Related Solution
- Household Related Solution
- Healthcare Related Solution
- Road & Safety Related Solution
- Open Category Robotics Solution capable of solving a real-world problem

Description for Students

This theme focuses on practical robotics applications capable of solving industrial, societal, and everyday human problems.

Students can build:

- Defence Surveillance Robots
- Industrial Automation Robots
- Healthcare Assistance Robots
- Smart Household Robots
- Rescue & Safety Systems
- Autonomous Delivery Robots
- Smart Road Safety Solutions

Students are encouraged to create innovative robotic systems with real-world impact.

Important Guidelines for Participants

- Projects should focus on innovation and real-world problem solving.
- Working prototypes, simulations, or research implementations are encouraged.

- Students may use AI, Robotics, IoT, Embedded Systems, Cloud Computing, Automation, Web, or Mobile Technologies.
- Projects with strong industry relevance and social impact will receive preference.
- Hardware + Software integrated solutions are highly encouraged.
- Teams can be interdisciplinary.

Final Note

“Think Beyond Ideas – Build Real Innovation.”

CuriousPARC 2026 provides a national-level platform for students, innovators, researchers, and developers to showcase breakthrough ideas and future technologies.

Build solutions that can shape the future of AI, Robotics, and Intelligent Systems.

Email: sales@curiotinker.com, admin@curiousparc.in

Phone Number: 7774887006

Thank you!