

COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS

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15th July 2024

To: All Heads of CISCE Affiliated Schools

Dear Principal,

Subject: Launch of CISCE Inter-School Robotics Championship - IRC 2024 on World Youth Skills Day 2024

The United Nations General Assembly declared 15 July as **World Youth Skills Day** to highlight the critical need for equipping young people with relevant skills for employment and entrepreneurship and addressing global challenges for advancing sustainable development. With various remarkable scientific and technological advances, there is a need to prepare our students for continuous transformations in the landscape of work and equip them with the necessary skills to especially navigate the rapid integration of robotics and AI technologies across various industries.

Echoing these concerns, the National Education Policy (NEP 2020) has also mandated a technologically empowered society and knowledge economy with a push for the enhancement of relevant skills as part of each student's schooling experience. The Policy highlights the role of schools in fostering a culture of innovation that allows young students to participate in shaping a technology-driven future.

In its commitment to providing high-quality experiential learning and recognising the transformative role of Robotics and Artificial Intelligence, the Council for the Indian School Certificate Examinations is launching the first-ever **CISCE Inter-School Robotics Championship - IRC 2024** for CISCE-affiliated schools on **World Youth Skills Day** i.e., **15 July 2024**. This STEM initiative is in collaboration with I-Hub Foundation for Robotics (IHFC), Technology Innovation Hub of IIT Delhi, a Section-8 (Non-profit) Company established by IIT Delhi in the year 2020 under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), Department of Science and Technology (DST), Ministry of Science and Technology, Government of India.

The aim of the competition is to create an environment where aspiring young minds can harness their technical skills and collaborate in a spirit of healthy robotics competition. The IRC 2024 seeks to cultivate robotics interest by offering hands-on activities to foster teamwork, creativity, and critical thinking for problem-solving by designing and building robots. The competition will go beyond traditional classroom learning, offering a transformative



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educational experience that empowers students to become adept problem solvers and innovators. The competition is aligned with the impetus on design and innovation as advocated by NEP 2020 and the National Curriculum Framework School Education (NCF-SE) 2023.

We invite CISCE schools to join us in this journey of discovery and growth as we inspire and nurture the next generation of leaders and innovators in the exciting field of robotics. The online registrations will begin on **15th July 2024 post-12 PM. Please note that registration is free and open on a first come first serve basis.** The structure of the competition and other details are attached herewith.

The link for the registration and for the competition website will be available on the CISCE website from 15th July 2024 onwards.

With warm regards.

Yours sincerely,


Dr. Joseph Emmanuel
Chief Executive & Secretary

ANNEXURE

TABLE I	
Details of CISCE Inter-school Robotics Championship- IRC 2024	
Team Formulation	<p>Each school can register one team for the competition. 1000 teams will be registered on a first come, first serve basis.</p> <p>School teams will consist of a maximum of 5 and a minimum of 3 members from grades IX to XII.</p>
Theme of the Competition	<p>IRC 2024 Theme: “Industry”</p> <p>The contemporary industrial landscape is undergoing a profound transformation driven by advancements in robotics and automation technologies. From streamlined production processes to enhanced efficiency and safety standards, robotics has become the cornerstone of modern manufacturing. IRC 2024 aims to celebrate and further accelerate the integration of robotics into the industry by inviting participants to design, build, and showcase innovative robotic solutions tailored to industrial applications.</p>
Preliminary Screening	<p>The registered 1000 teams will undergo a basic boot camp and then participate in a preliminary screening round to shortlist 480 teams for the next round. The screening will be based on the basic boot camp.</p>
Stage 1	<p>480 teams will submit a design document for the game as Stage 1 submission out of which 240 teams will be shortlisted.</p>
Stage 2	<p>Stage 2 involves video submission by the 240 teams out of which 120 teams will be shortlisted for the “Zonal Round”.</p>

Zonal Round	In the Zonal Round, teams will compete to showcase the minimum skills requirement to build a small prototype of the robot using modular electronics and mechanical parts for the given task of moderate difficulty level. There will be 30 teams participating in the Zonal Round at each of the 4 Zones. In total, 120 teams compete to qualify as part of 24 teams (Top 6 teams of the Zonal round from each zone) in the Grand Finale at Hyderabad.
National Round	The top 24 teams of each of the four zones will participate in the Final round at CISCE CoE at Hyderabad. Each team will build a wheeled mobile robot with the specifications provided to perform tasks based on this year's theme Industry .
Prizes and Certification	Certificates of Participation and attractive prizes for winning school and teams.

TABLE II		
Timeline of CISCE Inter-school Robotics Championship- IRC 2024		
S.No.	Schedule	Timelines
1	Registration	
	• Start	Monday, July 15, 2024
	• End	Tuesday, July 30, 2024
2	Bootcamp (Online mode: 10 parallel batches- outside school hours)	
	• Start	Monday, August 5, 2024
	• End	Friday, August 16, 2024

3	Preliminary Submission Last Date	Tuesday, August 20, 2024
	Result	Monday, August 26, 2024
4	Announcement & Orientation of IRC Final Game	Thursday, August 29, 2024
5	Advance Bootcamp (Online mode- outside school hours)	
	• Start	Saturday, August 31, 2024
	• End	Wednesday, September 4, 2024
6	Design Document Submission, Stage 1	Wednesday, September 11, 2024
	Result	Monday, September 16, 2024
7	Video Submission, Stage 2	Monday, September 30, 2024
	Result of Video Submission	Tuesday, October 8, 2024
8	Zonals - Tentative – Kolkata	Tuesday, October 22, 2024
	• Lucknow	Friday, October 25, 2024
	• Mumbai	Monday, October 28, 2024
	• Bengaluru	Tuesday, November 5, 2024
9	Finals – Hyderabad	Monday, November 11, 2024

For any queries on the same, kindly contact

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