



Republic of the Philippines  
Department of Education  
NATIONAL CAPITAL REGION  
SCHOOLS DIVISION OFFICE OF MUNTINLUPA CITY

DEC 13 2024

Advisory No. 137, s. 2024

December 13, 2024

In compliance with DepEd Order (DO) No. 8, S 2013  
This advisory is issued for the information of DepEd officials,  
personnel/staff, as well as the concerned public.

**26<sup>th</sup> International Robot Olympiad (IRO) in BEXSO Busan, South Korea**

Attached is a letter from Ms. Pinky Legaspi, IRO Philippine National Partner of Data Science and Technology Corporation dated January 16 to 21, 2025 at BEXCO Busan, South Korea, with the theme's year: Future Marine City Busan: Industry, Tourism, and Culture, in the above -mention title, contents of which are self-explanatory, for the information and guidance of all concerned.

Participation of public-school counselors and educational leaders shall be subject to the no-disruption-of -classes policy stipulated in DepEd Order No. 9, s.2005 entitled the theme for this year's Convention is "*Counselors as Change Advocates: Fostering Well- being and Generational Engagement.*"

Moreover, schools are reminded of the "No Collection and No Selling of Tickets Policy" stipulated in DepEd Order Nos. 19 and 40, s. 2008 and RA Nos. 4206 and 554.

JK



## 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

October 11, 2024

**SDS VIOLETA M. GONZALES**

**Schools Division Superintendent, DepEd SDO Muntinlupa City**

Laguerta St., Tensuan Site, Poblacion, Muntinlupa City

Dear **MADAM**:

We are excited to invite the **DepEd SDO Muntinlupa City** to participate in the 26th International Robot Olympiad (IRO), taking place in BEXCO Busan, South Korea, from January 16 to 21, 2025. The IRO is a global platform that brings together the brightest young minds in robotics to compete, innovate, and collaborate.

We kindly seek your support in sending teams of robotics players to join this international robotics gathering. In addition, we warmly welcome observers, including teachers, coaches, education officials, and companions, who will gain valuable insights from the enriching experience of witnessing cutting-edge robotics in action. This is a unique opportunity to engage with advanced robotics education and to connect with a global community of innovators. The theme for this year is **Future Marine City Busan: Industry, Tourism, Culture**.

The participation cost for both Participants and Observers and inclusions (hotel accommodation, meals, uniforms, preparatory course, mock games, and documentation) are outlined on the next page. This package is designed to provide a seamless experience for teams and observers, ensuring everyone is prepared and supported throughout the competition.

The registration form for 26<sup>th</sup> IRO-Ph can be accessed at this link: <https://bit.ly/26thIROBusanKorea-Ph> . For any questions or clarifications, the Philippine organizer is reachable at [philippineroboticsteam@gmail.com](mailto:philippineroboticsteam@gmail.com) or via landline number 02-70004112, viber/whatsapp at 09284353229.

We look forward to the successful participation of the Philippine Robotics Team in the 26<sup>th</sup> International Robot Olympiad.

Sincerely,

Pinky Legaspi

IRO Philippine National Partner

Data Science and Technology Corporation



## 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

### 26<sup>th</sup> International Robot Olympiad

**Date & Venue: January 16 – 21, 2025 Busan BEXCO, South Korea**

#### I. Age Eligibility

Junior L	Aged between 7 - 9
Junior H	Aged between 10 - 12
Senior L	Aged between 13 - 15
Senior H	Aged between 16 - 18

#### II. Competition Categories: Tentative games schedule provided

Participation Type	Team Members Junior/Senior
Solo Games - participants may join more than 1 game per day as long as no conflict in schedule	<ul style="list-style-type: none"> <li>• Tag Out (Wheeled Robot) – <i>Junior Only</i></li> <li>• Smart Farmer (Humanoid)</li> <li>• Robot Athletics (Wheeled Robot)</li> </ul>
Team of 1 to 3 members – participants can join only 1 team game per day	<ul style="list-style-type: none"> <li>• Physical Computing</li> <li>• AI Hubot (Humanoid)</li> <li>• Territory Takedown (Wheeled) – 2 members only, junior only</li> <li>• AI Autonomous Driving (Wheeled)</li> <li>• Mission Challenge</li> <li>• Creative Category</li> <li>• Creative Movie</li> </ul>

#### III. Fees & Deadline

Early Bird: Register until October 30, 2024	
Participants / students	\$959
Observers / Companions / Coaches	\$859 *The registration fee for the coach is waived with minimum 8 registered students.
Regular Registration until November 10, 2024	
Participants / students	\$1,080
Observers / Companions / Coaches	\$980 *The registration fee for the coach is waived with minimum 8 registered students.



## 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

#### IV. Inclusions:

- a. Games Registration: Certificates, ID badges
  - b. Hotel Accommodation: 6 Days/5 nights, Check-in on January 16 to check-out on 21, 2025
  - c. Meals: Full board (breakfast, lunch, and dinner) from dinner on January 16 to breakfast on January 21, 2025
  - d. Uniforms: Official IRO participant uniforms provided
  - e. Land Transportation: Includes airport pick-up and drop-off (for day time arrival and departure), as well as daily shuttle service between the hotel and event venue
  - f. IRO Games Preparatory Courses: Pre-event courses to help participants familiarize themselves with the competition rules and format
  - g. Mock Games: Practice sessions before the official games
- \* Not included:** Airfare, travel taxes, visa fees, and any items not specifically mentioned above.

#### V. Itinerary

- January 16, 2025 – arrival at Busan Airport (Gimhae International Airport), Shuttle Pick-up, hotel check-in
- January 17, 2025 – Day 1 of Games @ BEXCO Busan, Shuttle Bus Hotel to Venue and vice-versa
- January 18, 2025 – Day 2 of Games @ BEXCO Busan, Shuttle Bus Hotel to Venue and vice-versa
- January 19, 2025 – Day 3 of Games @ BEXCO Busan, Shuttle Bus Hotel to Venue and vice-versa
- January 20, 2025 – Day 4 of Games @ BEXCO Busan, Shuttle Bus Hotel to Venue and vice-versa
- January 21, 2025 – Morning Awarding & Closing Ceremonies @ BEXCO Busan, shuttle bus to hotel. *\*best to schedule return flight to Manila in the evening.*

Date / Classification	1/17	1/18	1/19	1/20
Line Tracing	<a href="#">Robot Athletics Senior</a>	<a href="#">Robot Athletics Junior</a>		
			<a href="#">Mission Challenge Senior</a>	<a href="#">Mission Challenge Junior</a>
Humanoid		<a href="#">Smart Farmer Junior</a>	<a href="#">Smart Farmer Senior</a>	
AI	<a href="#">AI Autonomous Driving Senior</a>		<a href="#">AI Autonomous Driving Junior</a>	
	<a href="#">AI Hubot Junior</a>	<a href="#">AI Hubot Senior</a>		
			<a href="#">AI Soccer Junior</a>	<a href="#">AI Soccer Senior</a>
Evaluation	<a href="#">Creative Category - Technic/Idea Senior</a>	<a href="#">Creative Category - Technic/Idea Senior</a>		
		<a href="#">Creative Category - Technic/Idea Junior</a>	<a href="#">Creative Category - Technic/Idea Junior</a>	
	<a href="#">Physical Computing Junior</a>	<a href="#">Physical Computing Senior</a>		
			<a href="#">Creative Movie Senior</a>	<a href="#">Creative Movie Junior</a>
Junior	<a href="#">Tagout Standard/Expansion</a>		<a href="#">Territory Takedown</a>	<a href="#">Robot Shooting (Exhibition event)</a> <a href="#">Robot Agility (Exhibition Event)</a>



## 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

The main theme of the 26th International Robot Olympiad 2024/25 is "**Future Marine City Busan: Industry, Tourism, Culture**"

Busan is renowned as the economic hub and a prominent port city of Republic of Korea. It takes a leading role in various sectors, including automobile manufacturing, shipbuilding, and IT. Moreover, it boasts a beautiful coastal landscape, making it a representative tourist destination. Busan is also known as a cultural city, hosting events such as the Busan International Film Festival. ***Please design a robot that utilizes the diverse resources of Busan to pave the way for its future as a maritime city.***



Busan : Global Hub of Digital Mobility

# The 26th IRO 2024/25 International Robot Olympiad

Date  
**JANUARY 17<sup>FRI</sup> - 21<sup>TUE</sup>, 2025**

Venue  
**BEXCO Busan, Korea**

Hosted by  
 BUSAN METROPOLITAN CITY

iROC

Organized by  
 

Sponsored by  
 UNESCO  
Korean National Commission

 Global Compact Network Korea

Mirae 



# 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

Host City : Busan

26<sup>th</sup> IRO Games 17th (Fri) - 20th (Mon)

Arrival: January 16, 2025

Awarding Ceremonies & Departure: January 21, 2025

Busan Metropolitan City, is South Korea's second most populous city after Seoul, with a population of over 3.3 million inhabitants as of 2024. It is the economic, cultural and educational center of southeastern South Korea, with its port being South Korea's busiest and the sixth-busiest in the world. The surrounding "Southeastern Maritime Industrial Region" (including Ulsan, South Gyeongsang, Daegu, and some of North Gyeongsang and South Jeolla) is South Korea's largest industrial area.



**Recommended Robots for the IRO preparatory workshops and contest:** \*These are just recommendation for the IRO Preparatory Courses. Teams are welcome to use any robot kits that they are already using, as long as those robots comply with the games' mechanics.

Games	Robots
<ul style="list-style-type: none"> <li>• Creative Category</li> <li>• Mission Challenge</li> <li>• Territory Takedown</li> <li>• Tag Out</li> <li>• Robot Athletics</li> <li>• Creative Movie</li> <li>• Physical Computing</li> </ul>	<p><b>1) Weemake 12in1 Robot</b></p> <ul style="list-style-type: none"> <li>• Weemake 12-in-1 WeeeBot Robotstorm STEAM Robot Kit is a multi-functional DIY ultimate STEAM robot kit. It has more than 450 parts and contains 12+ cool pre-set forms.</li> </ul> <p><i>This robot is a highly modular platform built for versatility, allowing endless configurations to suit a wide variety of designs and functions. Its construction features multiple metal parts, which form a sturdy yet adaptable chassis that serves as the foundation for various robotic setups. These components are engineered to be interchangeable and reconfigurable, making it easy to build the robot into different forms, whether it's for mobility, mechanical tasks, or experimental functions.</i></p> <p><i>The metal parts can be arranged in numerous ways to create custom support structures, providing a solid base for motors, sensors, arms, or other attachments. This flexible design encourages creativity, enabling users to experiment with different robot architectures—whether they need a four-wheeled vehicle, a robotic arm, or a sensor-based rover.</i></p> <p><b>Price per set: P27,000.00</b> Training for IRO games available.</p>
<ul style="list-style-type: none"> <li>• Creative Category</li> <li>• Mission Challenge</li> <li>• Territory Takedown</li> <li>• Tag Out</li> <li>• Robot Athletics</li> <li>• Creative Movie</li> </ul>	<p><b>2) Weemake 6 in 1 Robot</b></p> <p>The 6-in-1 Evolution Robot Kit is a versatile DIY advance STEAM educational kits, which contains 50 + components and electronic modules.</p> <p><i>This robot is an incredibly versatile platform designed for the Creative Robot category, featuring over 50 modular parts. Its metal components can be reconfigured into six unique forms, offering endless possibilities for customization. The flexible chassis serves as a strong support for a wide range of setups, from mobile robots to robotic arms and sensor-based systems. Each part is engineered for easy attachment and repositioning, allowing users to experiment with different configurations.</i></p> <p><b>Price per set: P18,000.00</b> Training for IRO games available.</p>



## 26TH IRO BUSAN S.KOREA - PH

PH Organizer: Data Science & Technology Corp.  
January 17 - 21, 2025 Busan BEXCO, South Korea

- Creative Category
- Creative Movie
- Physical Computing

### 3) AI Smart Home Learning Kit

- ELF board featuring the ATmega 2560 chip, augmented by an expansion shield for extensive connectivity.



*Price per set: P35,000 Training for IRO Games available*

Connectivity: A wide array of ports including 16 RJ11 ports for various sensors and modules, ensuring a flexible and customizable learning experience.

- **Included Modules: From environmental sensing (PM2.5, temperature, humidity) to interactive modules (AI camera, speech recognition/synthesis), the kit is packed with tools to bring AI smart home projects to life.**

- Educational Support: Detailed tutorials covering assembly, wiring, and coding with WeeCode, aimed at empowering users to unlock the full potential of the kit.

- Creative Category
- Creative Movie
- Physical Computing

### AU Factory Robot Kit – Robot Education Series

AI Factory Robot Kit is a project-based demonstration robot kit for AI image recognition education. It is a set of tools and materials that can be used to build and program a robot with artificial intelligence capabilities. These kits typically include components such as sensors, motors, and microcontrollers, as well as software for programming the robot's movements and behaviors. The goal is to provide a fun and interactive way for people to learn about AI and robotics. This kit uses ELF AIOT K210 mainboard as the controller, includes three projects - the AI factory gate, the warehouse robot, and the AI sorting robot. It simulates the common scenes of AI factories. By assembly, program and



*Price per set: Php32,000 Training for IRO Games available*

- AI Hubot
- Street Farmer

### ROBOTIS PREMIUM KIT



The Bioloid Humanoid Robot is an educational robot kit which helps you learn the basics of structures and principles of robot joints. And you can expand its application to the engineering, inverse kinematic, and kinetics.

*Price per set: Php100,000 Training for IRO Games available*