

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.

26th 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.











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 26th 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 or via landline number 02-70004112, viber/whatsapp at 09284353229.

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

Sincerely,

Pinky Legaspi IRO Philippine National Partner Data Science and Technology Corporation





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

26th International Robot Olympiad Date & Venue: January 16 – 21, 2025 Busan BEXCO, South Korea

Age Eligibility

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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	 Tag Out (Wheeled Robot) – Junior Only Smart Farmer (Humanoid) Robot Athletics (Wheeled Robot)
Team of 1 to 3 members — participants can join only 1 team game per day	 Physical Computing Al Hubot (Humanoid) Territory Takedown (Wheeled) – 2 members only, junior only Al Autonomous Driving (Wheeled) Mission Challenge Creative Category Creative Movie

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.			





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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 Pickup, 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
	Robot Atheletics Senior	Robot Atheletics Junior		
Line Tracing			Mission Challenge Senior	Mission Challenge Junior
Humanoid		Smart Farmer Junior	Smart Farmer Senior	
	Al Autonomous Driving Senior		Al Autonomous Driving Junior	
Al	Al Hubot Junior	Al Hubot Senior		
Al				Al Speed (Exhbition event)
			Al Soccer Junior	Al Soccer Senior
	Creative Category - Technic/Idea Senior	Creative Category Technic/Idea Senior		
Evaluation		Creative Category - Technic/Idea Junior	<u>Creative Category -</u> <u>Technic/Idea Junior</u>	
	Physical Computing Junior	Physical Computing Senior		
			Creative Movie Senior	Creative Movie Junior
Junior	Tagout Standard/Expansion		Territory Takedown	(Exhibition event) Robot Agility
,				(Exhibition Event)

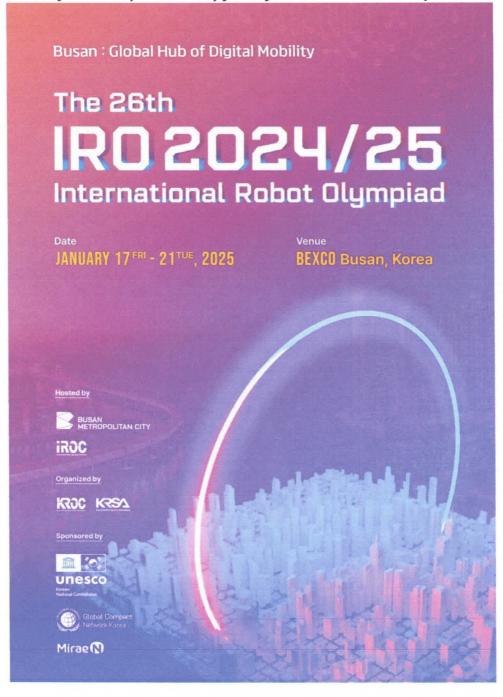




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The main theme of the 26th International Robot Olympiad 2024/25 is "Future Marine City Busan: Industry, Tourism, Culture"

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.*







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Host City: Busan

26th 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.





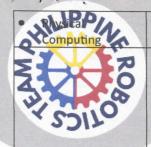
Recommended Robots for the IRO preparatory workshops and contest: *These are just recommendation for the IRO

	ecommended Robots for the IRO preparatory worksnops and contest: *These are just recommendation for the IRO reparatory 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			
•	Creative Category	1) Weeemake 12in1 Robot			
•	Mission	 Weeemake 12-in-1 WeeeBot Robotstorm STEAM Robot Kit is a multi-functional DIY ultimate 			
	Challenge	STEAM robot kit. It has more than 450 parts and contains 12+ cool pre-set			
•	Territory	forms.			
	Takedown	This robot is a highly modular platform built for versatility, allowing endless			
•	Tag Out	configurations to suit a wide variety of designs and functions. Its construction features			
	Robot Athletics	multiple metal parts, which form a sturdy yet adaptable chassis that serves as the			
•	Creative Movie	foundation for various robotic setups. These components are engineered to be interchangeable and reconfigurable, making it easy to build the robot into different			
•	Physical	forms, whether it's for mobility, mechanical tasks, or experimental functions.			
	Computing	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.			
		Price per set: P27,000.00 Training for IRO games available.			
•	Creative Category	2) Weeemake 6 in 1 Robot			
•	Mission	The 6-in-1 Evolution Robot Kit is a versatile DIY advance STEAM educational kits, which			
	Challenge	contains 50 + components and electronic modules.			
•	Territory	This robot is an incredibly versatile platform designed for the Creative Robot			
	Takedown	category, featuring over 50 modular parts. Its metal components can be reconfigured			
•	Tag Out	into six unique forms, offering endless possibilities for customization. The flexible			
	Robot Athletics	chassis serves as a strong support for a wide range of setups, from mobile robots to			
•	Creative Movie	robotic arms and sensor-based systems. Each part is engineered for easy attachment			

Price per set: P18,000.00 Training for IRO games available.

and repositioning, allowing users to experiment with different configurations.





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- Creative Category
- Creative Movie
- Physical Computing
- 3) Al Smart Home Learning Kit
- ELF board featuring the ATmega 2560 chip, augmented by an expansion shield for extensive connectivity.

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



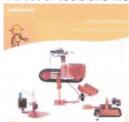
- Included Modules: From environmental sensing (PM2.5, temperature, humidity) to interactive modules (Al camera, speech recognition/synthesis), the kit is packed with tools to bring Al smart home projects to life.
- Educational Support: Detailed tutorials covering assembly, wiring, and coding with WeeeCode, aimed at empowering users to unlock the full potential of the kit.

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

- Creative Category
- Creative Movie
- Physical Computing

AU Factory Robot Kit – Robot Education Series

Al Factory Robot Kit is a project-based demonstration robot kit for Al 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

- Al 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