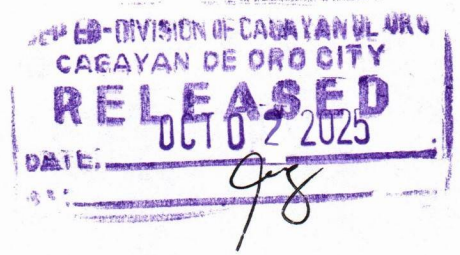




Republic of the Philippines
Department of Education
REGION X
DIVISION OF CAGAYAN DE ORO CITY



Office of the Schools Division Superintendent

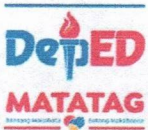
01 Oct 2025

DIVISION MEMORANDUM
No. 870 s. 2025

TO: Asst. Schools Division Superintendent
Chief, Curriculum Implementation Division
Public Schools District Supervisors
Concerned Education Program Supervisors
Public and Private Elementary and Secondary School Heads
This Division

**DIVISION SCIENCE AND TECHNOLOGY FAIR WITH THE FIRST ROBOTICS
COMPETITION cum TRAINING-WORKSHOP ON
MINECRAFT EDUCATION**

1. This Office, through the Curriculum Implementation Division (CID) will conduct the **Division Science and Technology Fair with the First Robotics Competition cum Training-Workshop on Minecraft Education** on October 21, 2025 at Cagayan de Oro National High School- Junior High campus.
2. This activity aims to:
 - a. provide learners with opportunities to showcase their scientific skills, creativity, and innovation in different science and technology categories;
 - b. promote interest and awareness in Robotics as emerging tools in Science, Technology, Engineering, and Mathematics (STEM) education;
 - c. enhance the capability of teachers and learners in using Minecraft Education as a platform for problem-solving, collaboration, and innovative learning experiences; and
 - d. select the Division qualifiers who will represent in the Regional Science and Technology Fair.
3. Participants are the following:
 - a. School Robotics Teams (private and public elementary and secondary learners) with their coaches;
 - b. Science and Mathematics Learners (private and public secondary learners) with their coaches
 - c. Selected Grade 7 and Grade 8 Teachers from public secondary schools that are DepEd Computerization Program (DCP) package recipients for the Minecraft Education training-workshop
 - d. Top 1 research team of different categories from Gusa Regional Science High School-X for the refinement of studies.



Address: Fr. William F. Masterson Ave., Upper Balulang, Cagayan de Oro City
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4. The Robotic competition will be facilitated by the University of Science and Technology of Southern Philippines. Please refer Enclosure No. 1 for Criteria, Competition Rules and Specifications.

5. The distribution of the participants for the workshop is indicated in Enclosure No. 2. Different contest categories of the Science and Technology fair in Enclosure No. 3 and the List of Technical Working Group and facilitators are in Enclosure No. 4.

6. The scientific research participants shall bring their physical project board that may not exceed 2.5m high and 1.0m wide for poster display and forms, please refer to this link <https://tinyurl.com/isefguide-2025> and <https://www.societyforscience.org/isef/forms/>.

7. In adherence to Equal Opportunity Principle (EOP), inclusive and fair treatment shall be accorded to all concerned/participants regardless of disability, sexual orientation, gender, age, religion, and ethnicity.

8. This Office directs immediate and wide dissemination of this Memorandum.

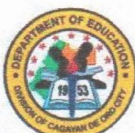
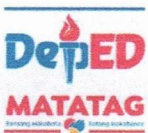
ROY ANGELO E. GAZO
Schools Division Superintendent

Encl.: As stated
Reference: None
To be indicated in the Perpetual Index
under the following subjects:

CURRICULUM SCIENCE FAIR TRAINING

DM- 173 -CID-IM-EQS / DIVISION SCIENCE AND TECHNOLOGY FAIR WITH THE FIRST ROBOTICS COMPETITION cum
TRAINING-WORKSHOP ON MINECRAFT EDUCATION

October 1, 2025



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ROBOLIKHA Division Robotics Competition 2025

Rationale

In line with the thrust of the Department of Education to integrate Science, Technology, Engineering, and Mathematics (STEM) in basic education. The ROBOLIKHA Cagayan de Oro Division Robotics Competition 2025 will be conducted in partnership with University of Science and Technology of Southern Philippines (USTP) at Cagayan de Oro National High School-JH on October 14, 2025. This event provides an avenue for learners to apply robotics and programming skills through hands-on, competitive, and collaborative experiences.

The activity promotes creativity, innovation, critical thinking, and sportsmanship while preparing students for higher-level robotics competitions at regional, national, and international levels.

Objectives

1. Develop robotics and programming skills among elementary and high school students.
2. Encourage creativity, innovation, and critical problem-solving through robotics challenges.
3. Promote teamwork, discipline, and sportsmanship in competitive settings.
4. Strengthen partnership between DepEd Cagayan de Oro and USTP in advancing STEM education.

Target Participants

- ✓ Elementary: Grades 4–6 (Sumobot Beginner, Line Tracing Beginner)
- ✓ Secondary: Grades 7–12 (Sumobot Intermediate, Line Tracing Intermediate)
- ✓ Each team: 1–2 players + 1 coach/teacher.

Categories / Events

1. Sumobot Beginner (Elementary, 500g)
2. Sumobot Intermediate (High School, 1kg)
3. Line Tracing Beginner (Elementary, max 4 sensors)
4. Line Tracing Intermediate (High School, max 8 sensors)

Date, Time and Venue

Date: October 21, 2025 Time: 8:00 am
Venue: CDONHS-JH, 29th St., Nazareth, Cagayan de Oro City



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COMPETITION RULES & SPECIFICATIONS

A. Sumobot (Beginner & Intermediate)

- ✓ Robots per team: 1
- ✓ Weight/Size:
 - Beginner: 500g, max 10 × 10 cm (L×W)
 - Intermediate: 1kg, max 20 × 20 cm (L×W)
- ✓ Arena:
 - Circular ring
 - 120–154 cm diameter
 - 5 cm border width
 - smooth black surface with white border
- ✓ Referees: 2 per ring + 1 table judge
- ✓ Game format:
 - Best of 3 rounds, 1 minute each;
 - round-robin then double elimination
- ✓ Scoring:
 - Push opponent out of ring = 1 point (Yuhkoh point).
 - Robot leaving ring, immobility >5s, or losing parts = point for opponent.

B. Line Tracing (Beginner & Intermediate)

- ✓ Robots per team: 1, fully autonomous
- ✓ Sensor limits:
 - Beginner: Max 4 sensors (straight/curved lines, no ramps or intersections)
 - Intermediate: Max 8 Sensors (curves broken lines, intersections, with ramps/humps)
- ✓ Playing Field:
 - 2.4 × 4 m tarpaulin
 - black lines 25–30 mm thick
 - non-glossy surface
- ✓ Referees: 2 per playing field + 1 timekeeper
- ✓ Runs:
 - Each team has 2 runs;
 - best time recorded as final score
- ✓ Scoring:
 - Fastest time wins; bonus deductions (Beginner: fewer sensors =time bonus,
 - Intermediate: following optional white line = 10s deduction).

Enclosure No. 2. Distribution of Participants

SCHOOL	Grade 7 teacher	Grade 8 teacher	SCHOOL	Grade 7 teacher	Grade 8 teacher
1.Angeles Sisters NHS	1	1	16.Lumbia NHS	1	1
2.Baikingon NHS	1	--	17.Macasandig NHS	1	1
3.Balulang National High School	--	1	18.Man-ai National High School	1	--
4.Bayabas NHS	1	--	19.Bayanga NHS	1	--
5.Bonbon NHS	--	1	20.Dansolihon National High School	1	--
6.Bugo NHS	1	1	21.Pagalungan National High School	--	1
7.Bulua NHS - Camp Evang. Ext. (Patag)	1	--	22.Pagatpat National High School	--	1
8.Cagayan de Oro National High School (JHS)	1	1	23.Pigsag-an National High School	--	1
9.Camaman-an NHS	1	1	24.Puerto NHS	--	1
10.Carmen NHS	1	1	25.Puntod NHS	1	--
11.Gusa NHS - FS Catanico Annex	1	--	26.Man-ai National High School	1	--
12.Gusa Regional Science High School-X	1	1	27.Iba IS	1	--
13.Indahag National High School	1	1	28.Magayad IS	1	--
14.Kauswagan NHS	1	1	29.Palalan Integrated School	1	--
15.Lapasan National High School	1	1			
Subtotal	13	11		10	6
Overall total	40				

(Note: Participants are required to bring their own DCP laptop and extension cord)



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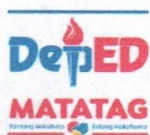
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Enclosure No. 3. Different Scientific Research Categories

Category	Oral presentation	Poster presentation
Life Science - Individual	/	/
Life Science- Team	/	/
Physical Science- Individual	/	/
Physical Science- Team	/	/
Robotics and Intelligent Machines Individual	/	/
Robotics and Intelligent Machines Team	/	/
Science Innovation Expo Individual	/	/
Science Innovation Expo Team	/	/
Mathematical Computation Individual	/	/
Mathematical Computation Team	/	/

(Note: The verdict of the panelists is final and irrevocable.

1st Place (Best Paper only per category) shall represent the division in the 2025 Regional Science and Technology Fair)



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Enclosure No. 4. Members of the Planning and Technical Working Group

Planning Committee:

Chairman: Roy Angelo E. Gazo-Schools Division Superintendent
Co-Chair: Audie S. Borres-Asst. Schools Division Superintendent
Members: Jean S. Macasero- Chief, Curriculum implementation Division
Evelyn Q. Sumanda-EPS-1 in Science
Ray O. Maghuyop- EPS-1 in Mathematics

Technical Planning Committee:

Chairman: Maribeth T. Auman, Principal 1, CDONHS-JH
Co-Chair: Jocelyn Palabon, Assistant Principal, CDONHS-JH
Members: Jeffry Q. Abella
Hasima Salic
Leah Lyn Lingatong

Program Invitation/ Tarpaulin/Certificates /Awards

Chairman: Perry Jane Cañete
Co-chairman: Jackelyn Gazatan
Member : Sheryll Dura
Food : Chairman: Marybeth Cultura
Co-Chairman: Aguida Valdehuesa

Venue Preparation and Decoration:

Chairman: Juliet Kristine Murcia
Co-Chairman: Eliezer dela Vega
Members: TLE teachers

ICT: Chairman- Noribelle Baculio
Co-Chairman: Krista Mari M. Llenas

Host : Farrah Alvie Ablanque

Documentation/Narrative Report/Forms: Marilou Lora, SH- Midkiwan IS
Display Poster Presentation : Marvin Anthony A. Ramos,SH-Kauswagan NHS
In-Charge of Different Contest Categories (Both oral and poster):

Life Science - Ronaldo Auman- SH, Angeles Sisters NHS
Physical Science - Vanessa Mae Martinez,SH- Macasandig NHS
Robotics - Christian Gem Pimentel- SH, Pigsag- an NHS
Science Innovations Expo- Karl Anthony Salise, SH, Dansolihon NHS
Mathematics Computation- Emily Tabamo, SH- Puntod NHS

Minecraft Education Training Workshop

Facilitators : Rubylinda E. Peralta
Denver John N. Casinillo



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