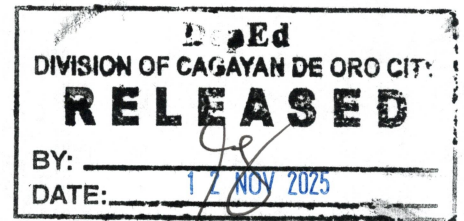




Republic of the Philippines
Department of Education
REGION X
DIVISION OF CAGAYAN DE ORO CITY



Office of the Schools Division Superintendent

12 Nov 2025

DIVISION MEMORANDUM

No. 1037 s. 2025

OFFICIAL ANNOUNCEMENT OF THE 2025 DIVISION SCIENCE AND
TECHNOLOGY FAIR

TO: Assistant Schools Division Superintendent Chief,
Chief, Curriculum Implementation Division
Chief, Schools Governance Operations
Division CID and SGOD Personnel
Public and Private Elementary and Secondary School Heads
This Division

1. The Division of Cagayan de Oro City commends the unwavering efforts and dedication of all participants and members of the Technical Working Group for their valuable contributions to the successful conduct of the 2025 Division Science and Technology Fair with Robotics competition held at Cagayan de Oro National High School on November 6, 2025.
2. Enclosure Number 1 is the Official List of Winners of the 2025 DSTF.
3. In adherence to Equal Opportunity Principle (EOP), inclusive and fair treatment is accorded to all personnel regardless of disability, sexual orientation, gender, age, religion, and ethnicity.
4. 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:

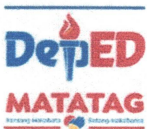
CURRICULUM IMPLEMENTATION

SCIENCE

ROBOTICS

DM- 197 -CID-IM-EQS / OFFICIAL ANNOUNCEMENT OF THE 2025 DIVISION SCIENCE AND
TECHNOLOGY FAIR

November 12, 2025



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Doc. Ref. Code		Rev	
Effectivity		Page	2 of 2

Enclosure Number 1. 2025 DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF) WINNERS

1. MATHEMATICS and COMPUTATIONAL SCIENCE (INDIVIDUAL – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Mathematical Modeling and Clustering Analysis of Waste Generation Based on Learner's Knowledge, Attitude and Practice (KAP) on Waste Management	LESSANDRA BEATRICE L. FLORES	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG CHERRY MAE P. CASINILLO	1st
Census-Based Data Analytics of Respiratory Health and Environmental Risk Factors among STE Students	QUINTASHA AALIYAH D. LARIOZA	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	2nd

2. MATHEMATICS and COMPUTATIONAL SCIENCE (TEAM – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Traffic Flow Assessment using Linear Programming in Cagayan de Oro City Ysalina Bridge Intersection	EDZL LANZ M. CHAVEZ JALZY MAE F. PIASTRO HEZEKIAH O. MAMUCAY	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st
Comparative Analysis of Mean Richter Magnitude Across Different Seismic Location in Mindanao	NAJWA D. LAUNTO KESHA CUACHON PRINCESS REYHAN M. MAMA	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	JEFFRY Q. ABELLA PERRY JANE Q. CAÑETE	2nd

3. SCIENCE INNOVATION EXPO (INDIVIDUAL – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
AEROVATE Enhancing School Canteen Safety through an IoT-Based Air Quality Monitoring and Real-Time Health Alert System	RINAH MARIE L. OPENIANO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JACQUELINE G. GASATAN	1st
ESP 32 and Crange Pi Based Wi-fi Vending Machine System that Uses Recyclable Plastic Bottles as Payment	GLYZA MARIE S. SALISE	HERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL- SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd

4. SCIENCE INNOVATION EXPO (TEAM – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
IOT-Based Sustainable Air Filtration through a Solar-Powered Exhaust System with HEPA and Activated Carbon Filters for Food Stalls	AISHA GAIL NEGAPATAN SEAN KYLE B. BERSABAL	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL- JH	LEAH LYN A. LINGATONG JELLINEK G. JABINES	1st
Innovating for Greener Campus: ECODROP Columnar as an ARDUINO-Based Solution for Ecofriendly School	CHARMANE JURADO JHON REY P.ORO HAOLA C. DIMAPORO	MACAPANGCAT U. MAMA BULUA NATIONAL HIGH SCHOOL	DELBERT R. EBARAT	2nd
AquaHarvest Smart IOT-Integrated Vertical Polyculture Aquaponics for Spinach, Basil, Oregano, and Catfish Farming	ZESLEY VAN I. GALGAO ZOE ALEJA STACY PARBA ALMA S. ALIASGAR	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL- JH	LEAH LYN A. LINGATONG	3rd

5. SCIENCE INNOVATION EXPO (INDIVIDUAL – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
ESP 32 and Crange Pi Based Wi-fi Vending Machine System that Uses Recyclable Plastic Bottles as Payment	GLYZA MARIE S. SALISE	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st
AEROVATE Enhancing School Canteen Safety through an IoT-Based Air Quality Monitoring and Real-Time Health Alert System	RINAH MARIE L. OPENIANO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JACQUELINE G. GASATAN	2nd

6. SCIENCE INOVATION EXPO (TEAM – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Development of an ESP32 Based Wearable Device for Real-Time Health Monitoring and GPS Tracking Dogs	MA. SHAHANA ELLEN R. ESTINOS JAN MARIANE S. JUSON MICHAELA T. SALAN	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st
AquaHarvest Smart IOT-Integrated Vertical Polyculture Aquaponics for Spinach, Basil, Oregano, and Catfish Farming	ZESLEY VAN I. GALGAO ZOE ALEJA STACY PARBA ALMA S. ALIASGAR	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	2nd
IOT-Based Sustainable Air Filtration through a Solar-Powered Exhaust System with HEPA and Activated Carbon Filters for Food Stalls	AISHA GAIL NEGAPATAN SEAN KYLE B. BERSABAL	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JELLINEK G. JABINES	3rd

7. PHYSICAL SCIENCE (INDIVIDUAL – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
AetherGauge: A Physical Analysis of Air Quality Variation Influenced by Temperature and Humidity in School Environments	VINCE ARGEN E. CAÑEDO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JOAN TABLA	1st
Sustainable Water Soluble Bioplastic from Cassava (Manihot Esculenta) Starch: Ecofriendly Alternative to Shampoo Packaging	ABDUL WAHJID MIKUNUG	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd

8. PHYSICAL SCIENCE (TEAM – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
FLOWREVIVE: Utilizing Natural Materials for Eco-Friendly River Water Filtration System	JHIAN MOLDEZ ZAIRA E. BEJERO RAISYL RANAY	MACAPANGCAT U. MAMA BULUA NATIONAL HIGH SCHOOL	 SHELEEN E. AGUS	1st
Analyzing the Potential of Liquified Malunggay (Moringa Oleitera) Leaf in Improving the Physicochemical Properties of Contaminated Water Sources	FRANCIS DAVE A. PARAN SHEEN VALERIE V. GAVIA KATE AGATHA A. REYES	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd
IOT-Based Sustainable Air Filtration through a Solar-Powered Exhaust System with Hepa and Activated Carbon Filters	AL-NAIF DISINON CHEM VIEL P. TE	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JEFFRY Q. ABELLA	3rd

9. PHYSICAL SCIENCE (INDIVIDUAL – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Sustainable Water Soluble Bioplastic from Cassava (Manihot Esculenta) Starch: Ecofriendly Alternative to Shampoo Packaging	ABDUL WAHJID MIKUNUG	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st

10. PHYSICAL SCIENCE (TEAM – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Experimental Analysis of Solar Panel Efficiency improvement with Composite Phase Change Materials	LAWRENCE B.ACERO VICTOR FRANCISE C. CUERQUIS NONITO P. LAMOSTE JR.	MACAPANGCAT U. MAMA BULUA NHS	MA.EDNA M.LAMCO	1st
Analyzing the Potential of Liquified Malunggay (Moringa Oleitera) Leaf in Improving the Physicochemical Properties of Contaminated Water Sources	FRANCIS DAVE A. PARAN SHEEN VALERIE V. GAVIA KATE AGATHA A. REYES	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd
IOT-Based Sustainable Air Filtration through a Solar-Powered Exhaust System with Hepa and Activated Carbon Filters	AL-NAIF DISINON CHEM VIEL P. TE	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JEFFRY Q. ABELLA	3rd

11, LIFE SCIENCE (INDIVIDUAL – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Growth Response of Seedlings Under a Controlled Polyculture Vertical Aquaponics System	SIHANIE U. PAHAMAN	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	1ST
Developing Alternative Organic Chicken Feed Pellet Using Chlorella Vulgaris and Wheat Bran	JENELYN MAE SAMSON	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2ND

12.LIFE SCIENCE (TEAM – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RAK
Seedball Synergy: Boosting Germination in Flood and Drain Aquaponics	MAIA MARGARET M. DESIERTO KEN ANN T. CASICAS NASIDA M. ANALO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL – JH	LEAH LYN A. LINGATONG LAUREN M. MAÑUS	1st
Development of Sustainable Panel Board Alternative from Agro-Waste Utilization of Cocos Nucifera and Sccharum Officinarum	QUEENIE JANNAH L. NUÑEZ MARCHAEL BRENNAN N. CORPUS IRISH C. EDULLANTES	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL – SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd
Snails that Save: Developing on Acute Bladder Snail	NORLYN F. GINOS CJ A. ORTEGA ZREY ANGELO B. LADERA	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL – SH	EARL MAE D. ARTADI ERWIN B. LANGAM	3rd

13. LIFE SCIENCE (INDIVIDUAL – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Growth Response of Seedlings Under a Controlled Polyculture Vertical Aquaponics System	SIHANIE U. PAHAMAN	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	1st
Developing Alternative Organic Chicken Feed Pellet Using Chlorella Vulgaris and Wheat Bran	JENELYN MAE SAMSON	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd

14. LIFE SCIENCE (TEAM – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Development of Sustainable Panel Board Alternative from Agro-Waste Utilization of CocoS Nucifera and Sccharum Officinarum	QUEENIE JANNAH L. NUÑEZ MARCHAEL BRENNAN N. CORPUS IRISH C. EDULLANTES	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL – SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st

15. ROBOTICS and INTELLIGENT MACHINES (INDIVIDUAL – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
MediSync: An Automatic Pill and Water Dispenser with Smartwatch Monitoring and Notification Synchronization	PRECIOUS SHAME SUICO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG CHERRY MAE P. CASINILLO	1st
Development of Medical Autonomous Pill Dispenser Robot: Fingerprint Authentication and Multi Modal Notifications System	FRANCIS L. TAVERA	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd

16. ROBOTICS and INTELLIGENT MACHINES (TEAM – ORAL)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
ESP32 Development-Based Online Plant Irrigation and Monitoring System.	CLARISSE JOY M. CEPEDA MIGUEL III M. LUMPAY RHIAN RESHAMAE R. ROSEL	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	1st
Aero Sense: Development and Implementation of a Real Time School Air Quality Monitoring System With Health Alerts	KIYOSHA M. KAMIMURA RHEA MAE J. PEPITO ANGELA R. QUILONGQUILONG	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH	LEAH LYN A. LINGATONG NORIBELLE G. BACULIO	2nd
SafePark: An IoT-Based Real-Time Air Quality Detection and Alert System for Underground Parking Areas	ANGELA TATAD JHOANA ESTORIOSO SHADRACH LUMICTIN	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	3rd

17.ROBOTICS and INTELLIGENT MACHINES (INDIVIDUAL – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
MediSync: An Automatic Pill and Water Dispenser with Smartwatch Monitoring and Notification Synchronization	PRECIOUS SHAME SUICO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH HIGH SCHOOL-JH	LEAH LYN A. LINGATONG JACQUELINE G. GASATAN	1st
Development of Medical Autonomous Pill Dispenser Robot: Fingerprint Authentication and Multi Modal Notifications System	FRANCIS L. TAVERA	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	2nd

18.ROBOTICS and INTELLIGENT MACHINES (TEAM – POSTER)

RESEARCH PROJECT TITLE	NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH/ES	RANK
Aero Sense: Development and Implementation of a Real Time School Air Quality Monitoring System With Health Alerts	KIYOSHA M. KAMIMURA RHEA MAE J. PEPITO ANGELA R. QUILONGQUILONG	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH HIGH SCHOOL-JH	LEAH LYN A. LINGATONG NORIBELLE G. BACULIO	1st
Flow Clean: A Remote-Controlled Water Surface Cleaning Robot for Sustainable Aquatic Waste Management	POE ALEX ZANDER C. LA VICTORIA MA. LOVELY A. CASERES GRACE LOVE B. RODRIGO	MARIBETH T. AUMAN CAGAYAN DE ORO NATIONAL HIGH SCHOOL-JH HIGH SCHOOL-JH	LEAH LYN A. LINGATONG	2nd
ESP32 Development-Based Online Plant Irrigation and Monitoring System.	CLARISSE JOY M. CEPEDA MIGUEL III M. LUMPAY RHIAN RESHAMAE R. ROSEL	JERSON HERRERO CAGAYAN DE ORO NATIONAL HIGH SCHOOL-SH	EARL MAE D. ARTADI ERWIN B. LANGAM	3rd

19. ROBOLIKHA 2025:Line Tracing Beginner

NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH	RANK
KARLOS ENRIQUE C. SUR KENT KAIZER T. VALMORIDA	ANNABELLE J. LARIBA City Central School	RONIELYN A. REYES	1st
JOMAR JR. C. ONIHOG LIAM JOHN G. DUMAGAT	PEDRITA JORDAN Bulua Central School	PHOEBE L. ABARQUEZ	2nd

20. ROBOLIKHA 2025:Line Tracing Intermediate

NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH	RANK
ABIGAEL MAE S. TIORO EHLLE U. BASAÑEZ	MARIBETH T. AUMAN Cagayan de Oro National High School - JH	NORIBELLE G. BACULIO	1st
MOHAMMAD B. MAROHOMBSAR DEAN ADAM E. ARROYO	MARIBETH T. AUMAN Cagayan de Oro National High School - JH	NORIBELLE G. BACULIO	2nd
JULLIAN A. PANGAN BLAINE WINVYLL C. ALERIA	ELIZER O. TERUEL Gusa Regional Science High School-X	NOLAN V. ALVEAR	3rd

21. ROBOLIKHA 2025: Sumobot Intermediate

NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH	RANK
KYLE FRANCIS D. PAGLINGAYEN RHAFAJENNE T. DATARIO	MARICHU D. FIEL Kong Hua School	GILBERT EARL BARCENAS	1st
ANDREW CYRIL N. OPORTO PRINCESS MHYR P. ORTINERO	MARIBETH T. AUMAN Cagayan de Oro National High School - JH	NORIBELLE G. BACULIO	2nd
ARIES LLOYD G. GASCON RE- ELLA ZEPHANIAH P. HOYLAR	GRACE S. PIMENTEL University of Science and Technology of Southern Philippines - SHS	GLEA MAE S. SALES	3rd

22. Mobile Robotics System Competition (G7/G8 Category)

NAME OF PARTICIPANTS	SCHOOL HEAD/ SCHOOL	COACH	RANK
SCOTT D. MARRON DYLAN JADE B. MERCADO	ELIZER O. TERUEL Gusa Regional Science High School-X	Julius O. Tan	1st

23. Mobile Robotics System Competition (G9/G10 Category)

NAME OF PARTICIPANTS	SCHOOL	COACH	RANK
EHLLE U. BASAÑEZ DEAN ADAM E. ARROYO	MARIBETH T. AUMAN Cagayan de Oro National High School - JH	NORIBELLE G. BACULIO	1st