



Republic of the Philippines  
**Department of Education**  
REGION XI  
**SCHOOLS DIVISION OF DIGOS CITY**

OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

**DIVISION MEMORANDUM**

CID-2026-072

To : Assistant Schools Division Superintendent  
CID & SGOD Chiefs  
Concerned Public Schools District Supervisors  
Concerned Education Program Supervisors  
Concerned Public and Private School Heads (Senior High School)  
All Others Concerned

Subject : **DISSEMINATION OF THE OFFICIAL RESULTS OF THE 2025 REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF)**

Date : February 25, 2026

This Office hereby disseminates **Regional Memorandum CLMD-2026-029** relative to the *Official Results of the 2025 Regional Science and Technology Fair (RSTF)* conducted on **November 27–29, 2025 at Sto. Tomas National High School, Davao del Norte.**

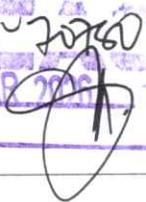
The SDO of Digos City, through the Curriculum Implementation Division (CID), extends its congratulations to all winners of the said event. As stipulated in the memorandum, **only Rank 1 winners in each category**, excluding the elementary level category, shall be endorsed to the Central Office for screening for the **National Science and Technology Fair (NSTF) scheduled in March 2026.**

In this regard, all concerned schools and personnel are advised to review the attached official results and provide necessary support to the winning participants in preparation for possible national-level participation. A separate memorandum shall be issued by the Regional Office containing the complete list of NSTF qualifiers and the specific guidelines and requirements for participation.

For inquiries or clarifications, concerned parties may coordinate with the **Curriculum and Learning Management Division (CLMD)** through Dr. Mary Jeanne B. Aldeguer, Chief Education Supervisor-RXI; Dr. Maria Liza I. Berandoy, Regional Education Program Supervisor (Science)-RXI; and Dr. Ivy F. Solano, Division Education Program Supervisor (Science).

Immediate dissemination of this Memorandum is desired.

  
**MELANIE P. ESTACIO, PhD, CESO VI**  
Schools Division Superintendent

JepEd Schools Division Office - Digos City  
RECORDS SECTION  
**RELEASED**  
DATE: 02 MAR 2026 TIME: 11:00 AM  
BY: 

Enclosed: As stated.  
CID/ifs



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20901



Republic of the Philippines  
**Department of Education**  
DAVAO REGION



January 22, 2026

REGIONAL MEMORANDUM  
CLMD-2026-029

OFFICIAL RESULTS OF THE 2025 REGIONAL SCIENCE AND  
TECHNOLOGY FAIR (RSTF)

To: Schools Division Superintendents  
All Others Concerned

1. This Office through the Curriculum and Learning Management Division (CLMD) congratulates the winners of the 2025 Regional Science and Technology Fair (RSTF) conducted on November 27-29, 2025, at Sto. Tomas National High School, Davao del Norte.
2. Only the Rank 1 in each category will be endorsed to the Central Office for screening in the upcoming National Science and Technology Fair (NSTF) scheduled in March 2026 excluding the elementary level category.
3. The official results of the 2025 RSTF are enclosed.
4. A separate memorandum shall be issued to provide the complete list of NSTF qualifiers and to outline the guidelines and requirements for participation at the national level.
5. For inquiries or clarifications, concerned parties may contact Dr. Mary Jeanne B. Aldeguer, Chief Education Supervisor, or Dr. Maria Liza I. Berandoy, Education Program Supervisor, from the Curriculum and Learning Management Division (CLMD).
6. Immediate dissemination of this Memorandum is desired.

**ALLAN G. FARNAZO**  
Director IV

DEPARTMENT OF EDUCATION - DAVAO REGION  
RECORDS SECTION  
**RELEASED**

Encl.: As stated  
ROC2/mlib

By: *[Signature]*  
Time: Jan. 26, 2024  
20901



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Republic of the Philippines  
**Department of Education**  
DAVAO REGION

Enclosure of the Official Results of the 2024 Regional Science and Technology Fair

Life Science Individual

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
LS-I-DC-06	NEUROVIVE: Establishing Tenebrio molitor as a Novel Invertebrate Model with Dual Therapeutic and Diagnostic Functionality for TBI via Neurobiological-Structural Modulation and Autologous Delivery of Submicronized Ferulic Acid	GARED ARTHUR S. TRIBUNALO	REGIE P. RODRIGO	DANIEL R. AGUINALDO NATIONAL HIGH SCHOOL	DAVAO CITY	1 <sup>ST</sup>
LS-I-PC-16	GELATINUS: Unlocking the Potential of Milkfish (Chanos chanos) Scale-Derived Gelatin as an Eco-friendly Plant Biostimulant for (Brassica spp.)	MC LIVINCE N. SALIMBAGAT	CINDY S. VALDERAMA	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	2 <sup>ND</sup>
LS-I-DC-05	TrichoBac: In Vitro and In Silico Evaluation of the Anti-fungal Activity of Trichoderma harzianum and Bacillus subtilis as Biocontrol Agent Against Fusarium oxysporum	JESSAMAE KRISTINE B. JOSOL	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY	3 <sup>RD</sup>



Republic of the Philippines  
**Department of Education**  
 DAVAO REGION

LS-I-PC-15	Power Pellets: Potency of Malunggay (Moringa oleifera) and Guava (Psidium guajava) Leaf Pellets with Bacillus subtilis on the Growth Performer of Broiler Chickens (Gallus gallus domesticus)	YUAN FLOYD V. ESTINOPO	CINDY S. VALDERAMA	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	4 <sup>TH</sup>
LS-I-DDO-18	Deciphering the Pharmacological Potential of Lemongrass (Cymbopogon citratus) Bioactive Compounds- Neral ( $\beta$ -Citral), Geranial ( $\alpha$ -Citral), and $\beta$ -Caryophyllene as Selective Cyclooxygenase-2 (COX-2) Inhibitors in Osteoarthritic Pathogenesis: An In Silico Computational Investigation Integrating Molecular Docking and Molecular Dynamics Simulations	CRIZEL ANNE M. ESCUADRA	LHESTER JAY U. SALAO	ATTY. ORLANDO S. RIMANDO NATIONAL HIGH SCHOOL	DAVAO DE ORO	5 <sup>TH</sup>



Republic of the Philippines  
**Department of Education**  
DAVAO REGION

*Life Science Individual - Best Display Board*

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*Life Science Individual - Best Oral Presenter*

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Republic of the Philippines  
**Department of Education**  
DAVAO REGION

*Life Science Team*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT /S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
LS-T-DC-06	CHROMIS: Cytotoxic Activity of Codelivered Sea Grapes (Calerpa racemosa) Ethanolic Extract in Novel ZIF-8 Metal-Organic Framework (MOF) Infused, Lipid-Based Liposome Encapsulated, Bio-Synthesized Silica Nanocapsules from Rice Husk (Oryza sativa L.) Ash with 3D-In Silico QCS-CFD Simulations and In Vivo Toxicological Anti-Vascularization Analyses for Enhanced Drug Delivery Targeting MSI-H Human Colorectal Carcinoma	BERN JOVEN E. BONTILAO,  ADAM KHAIZE R. HAMCHO,  MAUVER JOHN SARIF L. ADLAWAN	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY	1 <sup>st</sup>
LS-T-DC-05	Cytotoxic and Antiangiogenic Evaluation of Lichen (Usnea barbata) Fractions Against HCT116 Human Colorectal Carcinoma: MTT Assay, CAM Assay, Pharmacokinetic and Pharmacodynamic Analyses for Drug Development	EAN KYLE I. BANDIGAN,  CHESTER C. JAGOLINO,  SOPHIA CRESTINE B. JUANILLO	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY	2 <sup>nd</sup>



Republic of the Philippines  
**Department of Education**  
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LS-T-DI-22	Optimizing Green Muscardine Fungus (Metarhizium anisopliae) Production using Sugarcane Bagasse and Coconut Peat as Alternative Substrate	PEACH MACI D. FERNANDEZ,  ASHLEY VINZ L. ORTIZ,  JULIANNE CAMILLE A. TAN	JAIME S. CRISPINO	DIGOS CITY NATIONAL HIGH SCHOOL	DIGOS CITY	3 <sup>rd</sup>
LS-T-DN-13	In Vitro Cytotoxicity and In Silico Inhibitory Comparative Analyses of Balubitoon (Barringtonia asiatica) Methanolic Leaves Extracts using Brine Shrimp (Artemia salina) Larvae Bioassay, Quantitative Structure-Activity Relationship (QSAR) Modeling, and Molecular Docking for 1n8z Protein of HER2-Positive Breast Cancer	BENEDICT M. CRISOSTOMO  JEWEL MAY M. SANTIAGO,  HENTER M. GRABATO	EDMER F. AGUILAR	CARMEN NATIONAL HIGH SCHOOL	DAVAO DEL NORTE	4 <sup>th</sup>
LS-T-PC-15	Development of a Bioplastic Mulch Film from Green Cavendish Banana (Musa acuminata) Starch Incorporated with Garlic (Allium sativum) Extract and Madre de Cacao (Gliricidia sepium) Leaf Extract for Natural Mollusk Pest Repellency	LEANN KELLY C. LUMANDAS,  JANELLE MAE B. PIODOS,  ARYS KIRBY A. SITOY	CINDY S. VALDERAM A	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	5 <sup>th</sup>



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*Life Science Team - Best Oral Presenter*

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LS-T-DC-06	CHROMIS: Cytotoxic Activity of Codelivered Sea Grapes ( <i>Calerpa racemosa</i> ) Ethanolic Extract in Novel ZIF-8 Metal-Organic Framework (MOF) Infused, Lipid-Based Liposome Encapsulated, Bio-Synthesized Silica Nanocapsules from Rice Husk ( <i>Oryza sativa</i> L.) Ash with 3D-In Silico QCS-CFD Simulations and In Vivo Toxicological Anti-Vascularization Analyses for Enhanced Drug Delivery Targeting MSI-H Human Colorectal Carcinoma	BERN JOVEN E. BONTILAO,  ADAM KHAIZE R. HAMCHO,  MAUVER JOHN SARIF L. ADLAWAN	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY



Republic of the Philippines  
**Department of Education**  
DAVAO REGION

*Physical Science Individual*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
PS-I-DC-06	Armor Against the Atomic Flash: Multilayer Ablative Panels with g-C3N4 Panel for Thermal Mitigation and Modeled Gama and Neutron Shielding	Kiro Angelo S. Maloloy-on	Joshua Ymmanuelle C. Getigan	Davao City National High School	Davao City	1 <sup>st</sup>
PS-I-DC-05	SOFRA: Development and Performance of Cement-Bonded Pineapple Skin Particleboard with Fire, Water, and Durability Resistance	Eiuan Dean D. Ratilla	James Ryan E. Edma	Davao City National High School	Davao City	2 <sup>nd</sup>
PS-I-DDO-18	Bloody Truth: Assessing Kastle-Meyer Test, Comparing Ability of Different Types of Detergents by Detecting the Bloodstains on Different Type of Fabrics	Caitlin Shaine T. Biado	Rygin March N. Ibale	New Bataan NHS	Davao de Oro	3 <sup>rd</sup>
PS-I-IG-02	NANOSIFT: Physiochemical Examination of Ribbon Sea Lettuce ( <i>Ulva reticulata</i> ) and Tape Seagrass ( <i>Enhalus acoroides</i> ) Biosorbent Property to Manganese (Mn <sup>2+</sup> ) and Potassium (K <sup>+</sup> ) Metal Ions in Wastewater	Odrie Learize C. Doria	Rheider Jan T. Bartolini	Sta. Cruz NHS	IGACOS	4 <sup>th</sup>



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Republic of the Philippines  
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 DAVAO REGION

PS-I-PC-16	Eco-Board: Characterization of Cogon Grass (Imperata cylindrica) Fiberboards for Thermal Insulation, Sound Absorption, and Physical Properties	Angela Mae G. Flores	Dhan Febmar S. Cajegas	Panabo City NHS	Panabo City	5 <sup>th</sup>
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*Physical Science Individual - Best Display Board*

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PS-I-DDO-18	Bloody Truth: Assessing Kastle-Meyer Test, Comparing Ability of Different Types of Detergents by Detecting the Bloodstains on Different Type of Fabrics	Caitlin Shaine T. Biado	Rygin March N. Ibale	New Bataan NHS	Davao de Oro

*Physical Science Individual - Best Oral Presenter*

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PS-I-DC-06	Armor Against the Atomic Flash: Multilayer Ablative Panels with g- C3N4 Panel for Thermal Mitigation and Modeled Gama and Neutron Shielding	Kiro Angelo S. Maloloy-on	Joshua Ymmanuelle C. Getigan	Davao City National High School	Davao City



Republic of the Philippines  
**Department of Education**  
 DAVAO REGION

*Physical Science Team*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
PS-T-DDO-17	OleoSorb UCO-Gel: A Valorized Used Palm Oil-Derived Biodegradable Oleophilic Absorbent Gel for Oil Spill Remediation Through ASTM F716 and SMEWW/EPA 1664	Kristal Grace R. Raganas  Theresa Fatima A. Mandin	Rygin March N. Ibale, EdD	New Bataan National High School	Davao de Oro	1 <sup>st</sup>
PS-T-DI-21	SolVey: Solar-powered Trash Conveyor System for Irrigation Canals	Frances Dhaynne B. Escalona Fionna Sophia K. Grapa Nairah I. Manalondong	Warren P. Palmero	Digos City National High School	Digos City	2 <sup>nd</sup>
PS-T-DC-06	Green-Engineered Lemon Peel-Derived Nitrogen-Doped Carbon Quantum Dots and Zinc Oxide Nanoparticles for Dual-Functional Sensitive Detection and Photocatalytic Degradation of Antibiotic-Resistance Inducing Drug Contaminants	Christine Kyle B. Peñalosa  Thea Lauren S. Pasia  Cyrus ChinG. Labos	Chito R. Napitan	Daniel R. Aguinaldo National High School	Davao City	3 <sup>rd</sup>
PS-T-DC-05	HEXENZIRKEL: Quantitative Analysis of Phototropic Curvature, Elongation and Directional Memory of Red Onion ( <i>Allium cepa</i> ) Shoots in Simulated Microgravity for space Agriculture Applications Using 3D Clinostat System	Sharlyn Kim N. Abacahin  Ma. Alexandra S. Figueroa  Terrence Paul D. Mabala	Sherwin S. Fortugaliza	Davao City National High School	Davao City	4 <sup>th</sup>



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PS-T-DN-13	Calamansi (Citrofortunella microcarpa) Seeds as a Sustainable Feedstock for Biodiesel: Analysis of Composition and Energy Efficiency	Kizza Audrienne A. Rulida Yzhel Jhadi S. Mariquit Nikki Ashley L. Gaceta	Silver Glee M. Ediza	Sto. Tomas National High School	Davao del Norte	5 <sup>th</sup>
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*Physical Science Team - Best Display Board*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
PS-T-DC-06	Green-Engineered Lemon Peel-Derived Nitrogen-Doped Carbon Quantum Dots and Zinc Oxide Nanoparticles for Dual-Functional Sensitive Detection and Photocatalytic Degradation of Antibiotic-Resistance Inducing Drug Contaminants	Christine Kyle B. Peñalosa Thea Lauren S. Pasia Cyrus Chin G. Labos	Chito R. Napitan	Daniel R. Aguinaldo National High School	Davao City

*Physical Science Team - Best Oral Presenter*

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PS-T-DC-05	HEXENZIRKEL: Quantitative Analysis of Phototropic Curvature, Elongation and Directional Memory of Red Onion (Allium cepa) Shoots in Simulated Microgravity for space Agriculture Applications Using 3D Clinostat System	Sharlyn Kim N. Abacahin Ma. Alexandra S. Figueroa Terrence Paul D. Mabala	Sherwin S. Fortugaliza	Davao City National High School	Davao City



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Republic of the Philippines  
**Department of Education**  
DAVAO REGION

*Robotics and Intelligent Machines Individual*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
RIM-I-IG-02	REEF-SCAN: AN UNDERWATER ROBOTIC VISION SYSTEM FOR SEA URCHIN DETECTION AND DISTRIBUTION ANALYSIS	MARIA KRISCHEL J. QUIBAN	JENNIFER E. RIVERA	NIEVES VILLARICA NATIONAL HIGH SCHOOL	IGACOS	1 <sup>st</sup>
RIM-I-DC-05	MUSA FIREBALL: AUTOMATED FIRE MONITORING USING ARDUINO SENSOR-SYSTEM	JAHZEL C. CARAS	ALFIE D. TUBOG	DOÑA CARMEN DENIA NATIONAL HIGH SCHOOL	DAVAO CITY	2 <sup>nd</sup>
RIM-I-DC-06	METHA-TECT: DESIGN AND DEVELOPMENT OF A PROTOTYPE ARDUINO-BASED AUTOMATED DEVICE IN DETECTING METHIONINE, A GASTROINTESTINAL CANCER BIOMARKER, VIA CONDUCTIVITY OF SIMULATED URINARY FLUIDS	CYRUS J. HABANA	PAULO D. PRUDENTE	DANIEL R. AGUINALDO NATIONAL HIGH SCHOOL	DAVAO CITY	3 <sup>rd</sup>
RIM-I-PC-15	PANANOVA AI: A RANDOM FOREST REGRESSOR-BASED SMART IOT SOIL SENSING DEVICE FOR REAL-TIME FERTILIZER PRESCRIPTION IN BANANA (MUSA ACUMINATA) CULTIVATION	YUI REID M. BAROTOC	ANGELIE JOY C. PORTES	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	4 <sup>th</sup>



Republic of the Philippines  
**Department of Education**  
 DAVAO REGION

RIM-I-DDO-17	SKYFERTIL: HARNESSING INTERNET OF THINGS (IOT) - DRIVEN ESP32-BASED DRONE FOR PRECISION APPLICATION OF NANO SILICA (SILICON DIOXIDE NANOPARTICLES) (SIO2) FERTILIZER IN AGRICULTURE PLANT PETCHAY (BRASSICA RAPA SUBSP.)	KATE MARIE C. PAMOLAGAN	LHESTER JAY U. SALAO	ATTY. ORLANDO S. RIMANDO NATIONAL HIGH SCHOOL	DAVAO DE ORO	5 <sup>th</sup>
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*Robotics and Intelligent Machines Individual - Best Display Board*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
RIM-I-TC-20	SPHERESCUE: DESIGN AND DEVELOPMENT OF SEARCH AND RESCUE ROBOT WITH INTEGRATED FIRST AID SUPPLY	SHANTARA G. DELUMPA	RONALD P. APAO	TAGUM CITY NATIONAL HIGH SCHOOL	TAGUM CITY

*Robotics and Intelligent Machines Individual - Best Oral Presenter*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
RIM-I-IG-02	REEF-SCAN: AN UNDERWATER ROBOTIC VISION SYSTEM FOR SEA URCHIN DETECTION AND DISTRIBUTION ANALYSIS	MARIA KRISCHEL J. QUIBAN	JENNIFER E. RIVERA	NIEVES VILLARICA NATIONAL HIGH SCHOOL	IGACOS



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Republic of the Philippines  
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DAVAO REGION

*Robotics and Intelligent Machines Team*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
RIM-T-DS-11	PHYTOSCAN: AN AI-DRIVEN SOLAR-POWERED IOT FRAMEWORK FOR INTELLIGENT PLANT CONDITION DETECTION	PAOLO D. ARRISGADO RICHMOND DAVE B. CANO ETHAN JAMES S. MAGALONA	ENGR. SAIRIA FAITH A. CADIZ	STA. CRUZ NATIONAL HIGH SCHOOL	DAVAO DEL SUR	1 <sup>st</sup>
RIM-T-DC-05	MOSQUITECT: A MULTI-SENSOR AUTOMATED SYSTEM FOR MOSQUITO DETECTION AND ENVIRONMENTAL SURVEILLANCE	IEDERF SEAN B. HALIK ALTHEA MAE E. SAMPANG	JAINIE D. LUZ	CARLOS P. GARCIA SENIOR HIGH SCHOOL	DAVAO CITY	2 <sup>nd</sup>
RIM-T-IG-02	SENTINEL: AN AI-POWERED PLATFORM FOR REAL-TIME SOIL DIAGNOSTICS, NUTRIENT TRACKING, AND INTELLIGENT CROP PLANNING FOR EFFICIENT LAND USE	CALEB A. CARRASCO KITH LAURENCE D. DENAQUE LLEBY ALLUDRAH Z. RUELO	JEA B. TONGCAYUDAN	NIEVES VILLARICA NATIONAL HIGH SCHOOL	IGACOS	3 <sup>rd</sup>
RIM-T-DC-06	M.A.C.K.S: A DEEP LEARNING-BASED MEDICAL ANALYTICAL COGNITIVE KNOWLEDGE SYSTEM FOR PNEUMONIA AND BRAIN TUMOR DETECTION WITH INTEGRATED BPM MONITORING AND LLM-POWERED CONVERSATIONAL ASSISTANCE FOR USER ENGAGEMENT	JAMES ZEDRIC PANDARAWAN GABRIEL PAUL B. PACATANG DWYNE ZILDREN A. GO	BEN JAY-ME SEGURITAN	MAPUA MALAYAN COLLEGES MINDANAO	DAVAO CITY	4 <sup>th</sup>



Republic of the Philippines  
**Department of Education**  
 DAVAO REGION

RIM-T-PC-15	E.C.H.O. EXCHANGE COMMUNICATION THROUGH HAPTIC OPERATION: A TWO-WAY COMMUNICATION DEVICE FOR DEAF-BLIND INDIVIDUALS	ELYZAE S. RACHO  JEZREEL YVE M. JOTOJOT	ANGELIE JOY C. PORTES	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	5 <sup>th</sup>
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*Robotics and Intelligent Machines Team - Best Display Board*

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*Robotics and Intelligent Machines Team - Best Oral Presenter*

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Republic of the Philippines  
**Department of Education**  
DAVAO REGION

*Mathematics and Computational Science Individual*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
MCS-I-DS-11	In Silico Novel Drug Discovery of GLYcyrrhiza Glabra-Derived Biocative Compounds Targetting Rabies Virus N-Protein (PDB ID: 2GTT) Via Molecular Docking And ADMET Profiling	NAPUECAS JR., ROLANDO L.	SHAMILE JOSEPHINE A. ARRIESGADO	STA. CRUZ NATIONAL HIGH SCHOOL	DAVAO DEL SUR	1 <sup>st</sup>
MCS-I-DC-05	MIMIR: A Molecular Fingerprint-Driven Stochastic Network Framework for Multiple Prediction of Environmental Transport and Bioaccumulation of "Forever Chemicals" (PFOA, PFOS, PFHxA, PFBS, and GenX)	ADLAWAN, MARK EDWARD	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY	2 <sup>nd</sup>
MCS-I-DC-06	Project SCAR: Symmetry and Curvature-Driven Analysis of Resonances: Geometric Symmetry Dependent Localization of Quantum Scars in Three-Dimensional Billiard Geometries	FALLER, EMIL XAVIER J.	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY	3 <sup>rd</sup>
MCS-I-DI-21	Computational Pharmacokinetic Modeling and In Silico Screening of Cacao ( <i>Theobroma cacao</i> ) Pod Husk Phytochemicals via Nonlinear Ordinary Defferential Equations for IKK $\beta$ -Mediated NF-kB Pathway Inhibition in Lung Adenocarcinoma Tumorigenesis	PEREZ, MHIA KAYE S.	VERONICA T. DELIMA	DIGOS CITY NATIONAL HIGH SCHOOL	DIGOS CITY	4 <sup>th</sup>



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MCS-I-IG-02	PREDICTIVE ANALYSIS OF HEAT INDEX TRENDS AND THERMAL RISK CLASSIFICATION IN THE DAVAO REGION USING THE PROPHET	PIQUERO, SID IVAN	ALWYN B. DEMETERIO	NIEVES VILLARICA NATIONAL HIGH SCHOOL	IGACOS	5th
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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
MCS-I-DN-13	HydroPlast: A Computational and Analytical Model for Plastic Pollution Entrainment in Fluvial Systems	BELONIO III, ELVIRO I.	AILA MAE MONES	STO. TOMAS NATIONAL HIGH SCHOOL	DAVAO DEL NORTE

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
MCS-I-DC-06	Project SCAR: Symmetry and Curvature-Driven Analysis of Resonances: Geometric Symmetry Dependent Localization of Quantum Scars in Three-Dimensional Billiard Geometries	FALLER. EMIL XAVIER J.	SHERWIN S. FORTUGALIZA	DAVAO CITY NATIONAL HIGH SCHOOL	DAVAO CITY



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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
MCS-T-TC-19	SheafDx: Sheaf Cohomology-Driven Framework Integrating Chomological Inconsistency Index and Optimal Transport on Cohomology-Regularized Graph Neutral Networks for Early Colorectal Cancer Detection from Gut Microbiome Networks	RODRIGO JR., RICKY M.  SORIANO, PRECIOUS ANGEL D.  NOCETE, RAINE GABRIELLE	MARCYL ANN M. ESPIRITU	TAGUM CITY NATIONAL HIGH SCHOOL	TAGUM CITY	1 <sup>ST</sup>
MCS-DC--06	Engineering Modified Doped- Graphene Inspired from Athos Geometry: A Multi-Framework Analysis of Strategic Topology, Quantum Mechanical Field, Torsion and Thermodynamics and Electrostatics as Advanced Semiconductor	GONZALES, DAN PATREY B.  CANTERO, KEBIN P.  LOGATIMAAN, ANGELOU JADE C.	PAULO D. PRUDENTE	DANIEL R. AGUINALDO NATIONAL HIGH SCHOOL	DAVAO CITY	2 <sup>ND</sup>
MCS-T-TC-20	Solar Power Exploration: Land Suitability Analysis Using Geographic Information System and Multi-Criteria Decision Making Method Entropy-TOPSIS in Region XI, Philippines	PAÑA, ABIGAIL D.  DELA CRUZ, MARIELLE JIANN.  MAGNANAO, KISSY MARIE T.	ALDWIN DAVE A. CONAHAP	TAGUM CITY NATIONAL HIGH SCHOOL	TAGUM CITY	3 <sup>RD</sup>
MCS-T-PC-16	Autolette: Development of a Facial Recognition Model with Computer Vision Through Deep Learning for Identity Verification	GLUARA, KAECZY MHOENIX GAMAO, MARY CLARE  ELIZABETH GAMENG,  KAEZIAH CHELU J	ANGELIE JOY C. PORTES	PANABO CITY NATIONAL HIGH SCHOOL	PANABO CITY	4 <sup>TH</sup>



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MCS-T-IG-01	INTEGRATING ELECTROPHYSIOLOGICAL SIGNALS AND MACHINE LEARNING FOR EARLY PREDICTION OF MANGO ( <i>Mangifera indica</i> ) ANTHRACNOSE	BAYAG, GEAN KARYLLE G.  TALE, PRINCE JESWEL P.  ALMACEN, XIANVEEE C.	RISSA MAE D. MARANGA	NIEVES VILLARICA NATIONAL HIGH SCHOOL	IGACOS	5 <sup>TH</sup>
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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
MCS-DC--06	Engineering Modified Doped- Graphene Inspired from Athos Geometry: A Multi-Framework Analysis of Strategic Topology, Quantum Mechanical Field, Torsion and Thermodynamics and Electrostatics as Advanced Semiconductor	GONZALES, DAN PATREY B.  CANTERO, KEBIN P.  LOGATIMAAN, ANGELOU JADE C.	PAULO D. PRUDENTE	DANIEL R. AGUINALDO NATIONAL HIGH SCHOOL	DAVAO CITY

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MCS-DC--06	Engineering Modified Doped- Graphene Inspired from Athos Geometry: A Multi-Framework Analysis of Strategic Topology, Quantum Mechanical Field, Torsion and Thermodynamics and Electrostatics as Advanced Semiconductor	GONZALES, DAN PATREY B.  CANTERO, KEBIN P.  LOGATIMAAN, ANGELOU JADE C.	PAULO D. PRUDENTE	DANIEL R. AGUINALDO NATIONAL HIGH SCHOOL	DAVAO CITY



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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
STEMIE - I - TC - 20	P-FLUX: A Low - Cost Wearable IoT System for Sepsis Risk Assessment via Perfusion Index Analysis	CRIS EVAN V. ARCENA	LOUMELYN ROSE B. BAYATO	Tagum City National High School	Tagum City	1 <sup>st</sup>
STEMIE - I - TC - 19	EvacuAid: Safety Mobile Web Application for Emergencies and Visualizing Optimal Paths in Cities through Routing	SERGE ROQUE D. MALANAQUIS	AUDREY A. CLAREN	Tagum City National High School	Tagum City	2 <sup>nd</sup>
STEMIE - I - DC - 6	SYNTRIX: An Ultrasonic Waveform System Modeled on Superwoman (Zophobas morio) Sensory Behavior for Sustainable Fall Armyworm (Spodoptera frugiperda) Control in Maize (Zea mays)	JILLIAN RIENNARSIL I. BATAO	JAMES RYAN E. EDIMA	Davao City National High School	Davao City	3 <sup>rd</sup>
STEMIE - I - DDo - 17	Cyrtosperma merkusii: Unleashing Gabi Paw Degradation Potential of Oxo-biodegradable High Density Poly Ethylene Power Films as a Non-Food Packaging Material	JHENNICA ALONNAH LUMANCAS	ROSILYN P. CAJES, PhD	Montevista National High School	Davao de Oro	4 <sup>th</sup>



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STEMIE- I - DC - 5	Tactical Intervention Device for Emergencies in Flood (TIDE): A Search, Body Retrieval, Real-Time Detection, and Navigation	ALIYA SIANNE ELIJAH T. CAMPOREDONDO	CARLO F. QUITOS	Carlos p. Garcia Senior High School	Davao City	5 <sup>th</sup>
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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
STEMIE - I - DI - 21	AquaSync: An IoT-based Aquaponics System with Monitoring and pH Stabilization	CLYDE N. MELENDEZ	JO ANN F. CADAYONA	DIGOS CITY NATIONAL HIGH SCHOOL	DIGOS CITY

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
STEMIE - I - TC - 19	EvacuAid: Safety Mobile Web Application for Emergencies and Visualizing Optimal Paths in Cities through Routing	SERGE ROQUE D. MALANAQUIS	AUDREY A. CLAREN	TAGUM CITY NATIONAL HIGH SCHOOL	TAGUM CITY



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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
STEMIE - T - DDo - 17	ENERGIAVERDE: innovating sustainable nanostructural coalescence of phenolic-enhanced electrode and electrolyte components derived from coconut shell activated carbon, chitosan-cornstarch biopolymers, lignin-based carbon quantum dots and polyvinyl alcohol matrices with dual electrolytes biopolymer cross-linking for high-energy density supercapacitor technology	JOSH EZEK E. FERNANDEZ;  KEN S. SUELTO;  AMBRIEL MAYE P. JOSOL	LHESTER JAY U. SALAO	ATTY. ORLANDO S. RIMANDO NHS	DAVAO DE ORO	1 <sup>st</sup>
STEMIE - T - TC - 19	OPTIRICE: an artificial intelligence-based soil analysis and decision support tool for fertilizer management in rice fields	ALTHEA NICOLE V. CONCEPCION;  JAYMARI NEO C. COSMENO;  ZANE ALMAR M. SATO	MYRILL GUIA A. BAUTISTA	TAGUM CITY NATIONAL HIGH SHOOOL	TAGUM CITY	2 <sup>nd</sup>
STEMIE- T - DC - 5	N.I.B.B.L.E.S: Nighttime insect black bug luring and entrapment system - An IoT driven automated light trap for rice black bug elimination	KIRT LUTHER E. JACA;  KARSH SOFIA C. MALOBAGO;  ANGELO P. NOTARTE	RAY NEAL BADALO	DAVAO CITY NHS	DAVAO CITY	3 <sup>rd</sup>



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STEMIE - T - MC - 4	Repurposed mussel crafts fibers for bio-based fishing innovation: evaluating catch rate and tensile strength	JOHN CLOUIE M. MASINARING;  SHAUN DANA F. JAMIN;  KRESHNA PREYA S. PAGAWAYAN	NORSALAM BASCUNA	DAVAO ORIENTAL RSHS	MATI CITY	4 <sup>th</sup>
STEMIE - T - IG - 02	PODWIKAN: A biomimetic pod conducting in situ environmental and anthropogenic monitoring site sea turtle nesting sites	CHRISTIAN MARI S.PAMISA;  CASSANDRA NICOLE A. LAPE;  ALEXIA MYELE G. CONCHA	ROMELYN C. SARIO	NIEVES VILLARICA NHS	IGACOS	5 <sup>th</sup>

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
LS-T- DDO- 18	COCOAYER: Production of non-food high density poly-ethylene bioplastic fruit bag	SARIELLE B. MACUL; STEFEE DIZIE B. ALBINO; TESHEIN A. COMALING	RYGIN MARCH N. IBALE	NABUNTURAN NATIONAL HIGH SCHOOL	DAVAO DE ORO

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
STEMIE - T - TC - 19	OPTIRICE: an artificial intelligence-based soil analysis and decision support tool for fertilizer management in rice fields	ALTHEA NICOLE V. CONCEPCION JAYMARI NEO C. COSMENO ZANE ALMAR M. SATO	MYRILL GUIA A. BAUTISTA	TAGUM CITY NATIONAL HIGH SCHOOL	TAGUM CITY



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*Elementary SIP Individual*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
ESIP-I-DC-05	EcoJuan: Utilizing Artificial Intelligence (AI) and Gamification to improve Waste Management Practices in Schools	Samantha Marhyl N. Ellorimo	Jason Ryan A. Pujeda	Don Juan dela Cruz Central Elementary School	DAVAO CITY	1 <sup>st</sup>
ESIP-I-DC-06	Remote Controlled Apparatus for Combating Embers (RACE)	Chris Lorenz T. Rebuyon	Anne Kristine N. Osorio	Sta. Ana Central Elementary School	DAVAO CITY	2 <sup>nd</sup>
ESIP-I-DN-13	From Waste to Chill: Coconut Husk (Cocos nucifera) Foam Coolers as Sustainable Styrofoam	Michaela S. Umbaña	Lorilyn T. Gomez	Tubod Elementary School	Davao del Norte	3 <sup>rd</sup>
ESIP-I-IG-02	Efficacy of Okra (Abelmoschus esculentus) Mucilage as a Natural Biopolymer Flocculant for Improving the Clarity of Stored Domestic Water	Rufaida T. Nakilan	Rechelle Ann S. Morales	San Jose Elementary School	IGACOS	4 <sup>th</sup>
ESIP-I-DOr-07	Clarity Quest: DIY Filters from Everyday Materials	Mildred S. Ando	Jinjen G. Batino	Causwagan Elementary School	Davao Oriental	5 <sup>th</sup>

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
ESIP-I-DN-13	From Waste to Chill: Coconut Husk (Cocos nucifera) Foam Coolers as Sustainable Styrofoam	Michaela S. Umbaña	Lorilyn T. Gomez	Tubod Elementary School	Davao del Norte



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ESIP-I-DC-05	EcoJuan: Utilizing Artificial Intelligence (AI) and Gamification to improve Waste Management Practices in Schools	Samantha Marhyl N. Ellorimo	Jason Ryan A. Pujeda	Don Juan dela Cruz Central Elementary School	DAVAO CITY

*Elementary SIP Team*

ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION	RANK
ESIP-T-DS-11	Valorization of Sugarcane Mudpress Waste in the Production of Paver Blocks	Jon Gavin Bandiola Micha Ella Francisco Psalm Alexander Tomakin	Zyllamari M. Hidalgo	Guihing Central Elementary School	Davao Occidental	1 <sup>st</sup>
ESIP-T-DC-05	Development of a Smart Watering Device using soil moisture sensor for automated plant irrigation	Kian Xander Gumombal Dan Lloyd Sanchez Xianna Gabriella Dela Torre	Lorelei A. Galinato	Generoso Elementary School	DAVAO CITY	2 <sup>nd</sup>
ESIP-T-DC-06	Purification of Used Cooking oil Using charcoal and calamansi (Citrofortunella microcarpa) Extract	Jo-rese Terrence James Macuto Noel Max Francis Baguio Kara Micaela Dela Torre	Anna Kristine N. Osorio	Sta. Ana Central Elementary School	DAVAO CITY	3 <sup>rd</sup>



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ESIP-T-IG-01	Comparative Biofertilizer Efficacy of Brown Macroalgae (Sargassum) Extract and Sugarcane (Saccharum officinarum) Molasses Solution on the Growth and Soil pH of Pechay (Brassica rapa)	Cathy Boston Norie Grace Estrera Sofia Vallente	Rechelle Ann S. Morales	San Jose Elementary School	IGACOS	4 <sup>th</sup>
ESIP-T-DOc-10	"Biopesticide Production of Marigold (Tagetes spp.) Extract Against Leaf Miner infestation in Plants"	Xymon Aton Nicole Mapigid Niño Jr. Umbod	James Michael A. Morastil	Lanete Elementary School	DAVAO OCCIDENTAL	5 <sup>th</sup>

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ENTRY CODE	RESEARCH TITLE	RESEARCH PROPONENT/S	RESEARCH ADVISER	SCHOOL	SCHOOL DIVISION
ESIP-T-DS-11	Valorization of Sugarcane Mudpress Waste in the Production of Paver Blocks	Jon Gavin Bandiola Micha Ella Francisco Psalm Alexander Tomakin	Zyllamari M. Hidalgo	Guihing Central Elementary School	Davao Occidental

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Encl.: As stated  
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