



Republic of the Philippines
Department of Education
Region V
SCHOOLS DIVISION OF SORSOGON
Sorsogon

October 25, 2023

DIVISION MEMORANDUM

No. 277, s. 2023

**OFFICIAL RESULTS OF THE DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF)
AND ROBOTICS OLYMPICS**

To: Assistant Schools Division Superintendent
SGOD and CID Chiefs
Education Program Supervisors/ Division Coordinators
Public Schools District Supervisors/ OIC-PSDSs
Secondary School Heads
All Others Concerned

1. This Office warmly congratulates the winners in the recently concluded **Division Science and Technology Fair (DSTF) and Robotics Olympics for School Year 2023-2024** held last October 23-24, 2023 at Casiguran Technical Vocational School, Casiguran, Sorsogon pursuant to Division Memorandum No. 225, s. 2023.
2. The enclosures contain the lists of winners in the different categories.
3. Sincere appreciation and congratulations are also extended to the student-participants/ researchers, coaches, research advisers, STE and STEM subject group heads/ coordinators, department heads, asst. school principals and school heads of the participating schools, parents and stakeholders for the technical inputs and other invaluable support shared with our student researchers in undertaking research and innovation projects.
4. The first place winners in all categories shall submit the softcopies of their research papers following the required format and all other required documents (ISEF forms) not later than October 25, 2023 for the Regional Science Review Committee (SRC) paper evaluation. Research projects in the Robotics and Intelligent Machines, and Mathematics and Computational Science categories shall automatically join the Regional Science Fair provided that all required forms are properly accomplished. Attached is the list of participants expected to submit their research and innovation projects/ entries for the Regional SRC evaluation.
5. For information, dissemination and compliance of all concerned.

WILLIAM E. GANDO, CESO V
Schools Division Superintendent



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CIP 5461/21/05/1163



Republic of the Philippines
Department of Education
 Region V
SCHOOLS DIVISION OFFICE - SORSOGON

Enclosure to the Division Memorandum No. _____, s. 2023

DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF) AND ROBOTICS OLYMPICS FOR SY 2023-2024

October 23-24, 2023/ Casiguran Technical Vocational School

LIFE SCIENCE (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	BULAN NHS Bulan II	JERICH STEPHANIE E. GABIONZA	Corn (<i>Zea mays</i>) Cob Biochar Treatment on Algae Infestation in Aquaculture Ponds	JERAMIE G. DEL VALLE	ALEX A. RODRIGUEZ
2	2 nd Place	Gallanosa NHS Irosin I	SYNNA MAE F. BARRAMEDA	In-Vitro Evaluation of the Anti-fungal Effect of Calabash Tree Fruit (<i>Crescentia Cujete</i>) Against Phytopathogenic Fungi of Tomatoes (<i>Solanum Lycoperscum</i>)	CHRISTY BLANCA G. LOBERIA, MADELYN G. DE LA ROSA	MARIA TERESITA F. REALO
3	3 rd Place	GUBAT NHS Gubat South	CYRIL JU YEUN B. YOO	Antifungal Properties of Oregano (<i>Origanum amboinicus</i>) and Lavender (<i>Lavandula angustifolia</i>) Against Airborne Fungi	RONA E. AGUILA, JENNIFER D. CORDINETE	IMELDA E. DIÑO
4	4 th Place	MATNOG NHS Matnog II	DANILLE ANN GARCERA	Exploring Sustainable Practices of Harvesting Pili Elemei	ROLAND D. GARCIA, JR.	BENITA A. CIELO
5	5 th Place	PILAR NCHS Pilar I	SAMANTHA LIANNA DAINÉ EXCIJA	Feasibility of Nymphaea Green Bag; Taro (<i>Colocasia Esculenta</i>) Leaves and Banana Leaves as an Alternative Paper Bag	Ruth S. Arias	Noemi B. Lumbao

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LIFE SCIENCE (TEAM)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	BULAN NHS	LYNYRD O. DE CASTRO NATHANIEL G. GRAYDA KERR GABRIEL E. GEROLIA	Cytotoxicity and Free Radical Scavenging Assay of Pomelo (<i>Citrus granadis</i>) Leaves Against Leukemia Cancer Cells	JERIEL G. MARTIREZ	BENITA A. CIELO
2	2 nd Place	GUBAT NHS	SOPHIA ALEXIS EUGERIO, RUTCHEL JAN F. GESTIADA	Talisay (<i>Terminalia cattapa</i>) Treatment Pili as Growth Maximizer for Ornamental Fish	HOMER E. EREÑO, REGINA JANE C. FERRERAS	IMELDA E. DIÑO
3	3 rd Place	DONSOL NCHS	JOSEPH D. MADRID, LINO JAY J. MARTINEZ, JULIANA LOUISE P. MENDIOLA	Medicaguapa: A Medicinal Biocharcoal from Guava Leaves and Paper	RONALD L. LOMERIO VAL CHESTER C. ALIM	JOSEPHINE C. EBUENGA
4	4 th Place	GALLANOSA NHS	LIEZ ANGELA B. LASAP, KENT RUSSEL D. BALMES, RAICY CHRYSTALLYNE G. GOBRIS	Feasibility of Awametha (<i>Awapuhi Wild Ginger and Mint</i>) Paper Shampoo as Treatment for Frizzy Hair	AIDEE E. ESCAÑELA, CHRISTY BLANCA G. LOBERIA	MARIA TERESITA F. REALO
5	5 th Place	MATNOG NHS	SHANAINE S. GALLANO, MA. ROMEA WYESHUA B. DE VIANA, NICOLE O. GAVARRA	Potential of Fermented Fruit Juice (FFJ) as Alternative to Chemical Nutrient Solution in Hydroponically grown Lettuce (<i>Lactuca Sativa L.</i>)	JHONEL G. ALBAO, DARWIN C. ENREOLA	BENITA A. CIELO

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PHYSICAL SCIENCE (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	BULAN NHS	SOPHIA KATE G. GIME	Coconut (<i>Cocos nucifera</i>) Coir and Corn (<i>Zea mays</i>)	ERMIE G. GUAN	ALEX A. RODRIGUEZ
2	2 nd Place	GALLANOSA NHS	LYNEL G. GALORA	Xyguapcium as Chewable Dental Cleaner Tablet	JOHN BRYAN M. EVASCO, ERNESTO B. GILE, JR.	MARIA TERESITA F. REALO
3	3 rd Place	DONSOL NCHS	DWYNE CIRE A. MONZALES	Autoecosol System: Automatic Eco-friendly Solar-Powered Watering System	RONALD L. LOMERIO, ANGELA M. ABORDO	JOSEPHINE C. EBUENGA
4	4 th Place	CASTILLA NHS	PAUL BENEDICT L. LORA	Water Hyacinth (<i>Eichhornia crassipes</i>), Coconut Husk (<i>Cocos nucifera</i> L.) & Banana Peel (<i>Musa acuminta</i>) as an Alternative Eco-charcoal Briquettes	ROMER D. LADRA	JOCELYN GRACE H. DOB
5	5 th Place	PILAR NCHS	PRINCESS ANN L. CADAG	Efficacy of Incubating System Styroponics as an Alternative Type of Hydroponic	RUTH S. ARIAS	NOEMI B. LUMBAGO

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PHYSICAL SCIENCE (TEAM)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	GALLANOSA NHS	JEIMY JOY F. FRESADO CHANEL PAULYN G. GABITO BRYNT CHYSTER G. DE GUZMAN	Potential of Coconut (cocos nucifera) ash as pigment for egg tempera paint	MARY ANN J. LACRA CLEOMAE B. GIMPAO	MARIA TERESITA F. REALO
2	2 nd Place	BULAN NHS	SAMANTHA KATE G. DURAN ANGELIC FAITH G. GIME ARIANE G. GUPIT	Developmental Analysis of Tilapia Using Guava and Kakawate Leaves as Feeds	OLIVER G. GLIBAN	ALEX A. RODRIGUEZ
3	3 rd Place	DONSOL NCHS	JANEL A VILLACAMPO ANGELA A. LOSITO PATRICK E. MALTO	Wind and Pedal-Powered Fitness Machine with Light and Built-In Charging Station	RONALD L. LOMERIO MICHAEL B. BARCELON	JOSEPHINE C. EBUENGA
4	4 th Place	CUMADCAD NHS	LEA L. ARIATE ANGELICA E. ARAÑA JOHN KEVIN S. BUEN	Feasibility of Banaba (Musa sapientum) Peel-Based BioPlastic as an Alternative Food Packaging	SARAH JANE T. LAGATA ARGIELYN D. SAMSON	ELENOR M. OBLIGAR
5	5 th Place	PRIETO DIAZ NHS	BEA D. DICHOSO ASHAENA MAE D. DESTUTRA CHRISTINE JOY L. ARCEGA	Potential of Canarium ovatum Pulp and Oryza sativa Bran as Swine Feeds	JOAN MARIE D. DOMALAON ALBERTO V. ESPENIDA	MARY JEANE B. CASTILLO

SCIENCE INNOVATION EXPO (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	DONSOL NCHS Donsol East I	CESAR ANTONIO M. AVERILLA	Adaptive Modern Pest Trap Device	RONALD L. LOMERIO, VAL CHESTER C. ALIM	JOSEPHINE C. EBUENGA
2	2 nd Place	GALLANOSA NHS Irosin I	LORRAINE J. FORTES	Efficacy of the Lep Aqua-Nucifera Filtration Device Utilizing Coco (Cocos Nucifera) Coir	REYMOND F. BANCUAL, ESTER T. GONZALES	MARIA TERESITA F. REALO
3	3 rd Place	MATNOG NHS Matnog II	EL-J S. GARALDE	Potential of Pili Shell & Rice Hull Charcoal Briquettes	JUBELLE GRACE B. LAGAJINO, JHONEL G. ALBAO	BENITA A. CIELO
4	4 th Place	PILAR NCHS Pilar I	JACKY BRIAN P. GUNO	Avocado Seed as Alternative Cookie Flour	LOWEL ANDRIAN M. SOLAYAO	NOEMI B. LUMBAO

SCIENCE INNOVATION EXPO (TEAM)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	BULUSAN HS	CHARISSE LIAM F. FULONG, LEO ISAAC C. FULO, LEE BANNA HISITA	Development of an Innovative Product for Slitting Karagumoy Leaves for Karagumoy Weavers in the Municipality of Bulusan	JEANYLYN S. ANTONIO	FERMIN G. ESPALLARDO, JR.
2	2 nd Place	DONSOL NCHS Donsol East I	MC KERWIN T. ABARDO, MAUREEN MAE S. VITO, NONIE BIE GIBONI	Whiteguard: An Automatic Movable Whiteboard and Protector for Televisions	RONALD L. LOMERIO, JOAN LEVS C. JIMENEZ	JOSEPHINE C. EBUENGA

3	3 rd Place	PILAR NCHS Pilar I	SERENE HEART S. BAUSA, JOHN BENEDICT A. PERDIZ, ELLA MARIE M. LUMBERIO	Feasibility of Mannatto Bio Dye: Annato (Bixaorellama) and Malabar Spinach (Basella alba) as an Alternative Fabric Dye	RUTH S. ARIAS	NOEMI B. LUMBABO
4	4 th Place	GALLANOSA NHS Irosin I	GERALD L. BON, BIANCA B. BAÑEGA, CHARLZ M. HAPITA	Solar-Fueled Portable Hydroponic System	CHRISTY BLANCA G. LOBERIA, JARED GIMPAO	MARIA TERESITA F. REALO
5	5 th Place	MATNOG NHS Matnog II	CASSANDRA G. GAMBA, PRECIOUS MARIE F. FUSTER, SHAIRYLL KHAREE A. GONZALES	Improvise Aeroponic System for Sustainable & Eco-Friendly Urban Agriculture	JHONEL G. ALBAO, ROLAND D. GARCIA, JR.	BENITA A. CIELO

ROBOTICS AND INTELLIGENT MACHINES (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	MATNOG NHS	PATRICIA GAIL Y. GAJO	Conveyor Belt-Based metal Segregating Maschine	SALVE G. CHAVEZ, CINDY G. GACIS	BENITA A. CIELO
2	2 nd Place	DONSOL NHS	ANTHENA B. ABORDO	Solar-Generated Automatic Audio- Bird Deferent	RONALD L. LOMERIO, JASMIN C. MOLLENO	JOSEPHINE C. EBUENGA
3	3 rd Place	BULAN NHS	KRISTEL FAYE ADVINCULA	AQUADUINO	ERBERT G. ALINDOGAN	ALEX A. RODRIGUEZ

Enclosure to the Division Memorandum No. _____, s. 2023

ROBOTICS AND INTELLIGENT MACHINES (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	DONSOL NCHS	DANICA ASHLEY A. CERVANTES, JOHN CHRISTIAN O. CAHILIG, ANNE CHARLOTTE A. AÑANA	RABAS: Responsive Anti-Theft Body Temperature and Alcohol Sensor into Motorcycle Helmet	RONALD L. LOMERIO, ALAINE BAGASMAD	JOSEPHINE C. EBUENGA
2	2 nd Place	BULAN NHS	BELLA BEATRIZ C. FUNDANO, CHEYEN A. GIMAO, ROXANNE E. GUTIERREZ	ASACIS: Automated Soil Analyzer and Crop Identification System	OLIVER GUBAN	ALEX A. RODRIGUEZ
3	3 rd Place	MATNOG NHS	MARIA MANUELLE G. DE GUZMAN, NADINE R. GARAI, JAMES HODJIE B. GARCIA	Efficiency of Rain Sensor Autorotating Clothesline	MEL JOHN P. GUAN	BENITA A. CIELO
4	4 th Place	CUMADCAD NHS	STEPHANIE PEARL F. GRAJO, FIONA ARA O. SANTONIA, ERIKA MAE A. MILLARES	Arduino Uno Snack Vending Machine in Cumadcad NHS	Sarah Jane T. Lagata	ELENOR M. OBLIGAR

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MATHEMATICS AND COMPUTATIONAL SCIENCE (INDIVIDUAL)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	GALLANOSA NHS	GIAN CARLO M. ESCAME	Seraphina's Whisper, Escape the Echoes: An Android Game Enhancing the Student's Competency Regarding Fractions' Complexity	REYMOND F. BANCUAL, LORENA B. OBIDA	MARIA TERESITA F. REALO
2	2 nd Place	BULAN NHS	ASHTYN SAM H. GUELA	Mathematical Model on Senior High School Enrollment: Future Projections	MARIA IMMA CONCEPCION C. ESTEVES	ALEX A. RODRIGUEZ
3	3 rd Place	MATNOG NHS	HEART G. ANONNOY	Feasibility of 20 Pesos per Kilogram of Rice in Matnog, Sorsogon	ALBERT C. MEDIOLA, JHONEL G. ALBAO	BENITA A. CIELO

MATHEMATICS AND COMPUTATIONAL SCIENCE (TEAM)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	1 st Place	GALLANOSA NHS	ERIKA R. PALCOTILO, JAMIE KOREEN H. RELATA, JANEL F. BELTRAN	A Mathematical Model Predicting Number of Dengue Cases in irosin, Sorsogon	JENNIE F. OLIVENZA, RYAN G. PANESA	MARIA TERESITA F. REALO
2	2 nd Place	MATNOG NHS	CYRA JANE G. CORTEZA, AVEGAIL B. ESPERANZATE, THEA MAE G. GABELO	Assessing Sustainable Frameworks for Achieving Rice Sufficiency in Matnog, Sorsogon	IVY G. BARCELONA, JHONEL G. ALBAO	BENITA A. CIELO



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ROBOTICS OLYMPICS (JHS- LINE FOLLOWER ROBOT)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
1	Robotics Olympics- JHS (Line Follower Robot)	BULAN NHS	JOHN RUSELL F. FORTE, GABRIELLE ANDREI R. GERSALIA, BRYCE CODY M. BALASTON	Line Follower Robot	JERIEL G. MARTIREZ RAEJOHN E. ARANGO	Mr. ALEX A. RODRIGUEZ, P-III

ROBOTICS OLYMPICS (SHS- MAZE SOLVING MISSION ROBOT)

FINAL RANK	AWARD	SCHOOL/DISTRICT	NAME OF RESEARCHER/S	TITLE OF RESEARCH/ INNOVATION	COACH	SCHOOL HEAD
	Robotics Olympics- SHS (Maze Solving Mission)	BULAN NHS	ASHRON BEN M. GIMPAO, JOHN PAUL G. GUBAN, RAYMOND G. DULAY	Maze Solving Mission Robot	RAEJOHN E. ARANGO	Mr. ALEX A. RODRIGUEZ, P-III



Republic of the Philippines

Department of Education

Region V

SCHOOLS DIVISION OF SORSOGON

Enclosure to the Division Memorandum No. _____, s. 2023

DIVISION SCIENCE AND TECHNOLOGY FAIR (DSTF) AND ROBOTICS OLYMPICS FOR SY 2023-2024

October 23-24, 2023/ Casiguran Technical Vocational School

OVER-ALL WINNERS

AWARD	SCHOOL	SCHOOL HEAD
CHAMPION	BULAN NATIONAL HIGH SCHOOL	MR. ALEX A. RODRIGUEZ
FIRST RUNNER-UP	GALLANOSA NATIONAL HIGH SCHOOL	DR. MARIA TERESITA F. REALO
SECOND RUNNER-UP	DONSOL NATIONAL COMPREHENSIVE HIGH SCHOOL	DR. JOSEPHINE C. EBUENGA
THIRD RUNNER-UP	MATNOG NATIONAL HIGH SCHOOL	MRS. BENITA A. CIELO
FOURTH RUNNER-UP	GUBAT NATIONAL HIGH SCHOOL	MRS. IMELDA E. DIÑO
	PILAR NATIONAL COMPREHENSIVE HIGH SCHOOL	MS. NOEMI B. LUMBAO



Republic of the Philippines

Department of Education

Region V

SCHOOLS DIVISION OF SORSOGON

Enclosure to the Division Memorandum No. _____, s. 2023

**OFFICIAL ENTRIES OF SDO-SORSOGON
TO THE REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF) AND ROBOTICS OLYMPICS FOR SY 2023-2024**

No.	Event/ Category	School	Researchers/ Contestants	Title of Research/ Innovation	Coach/es	School Head
1	Life Science- Individual	BULAN NHS	JERICH STEPHANIE E. GABIONZA	Corn (<i>Zea mays</i>) Cob Biochar Treatment on Algae Infestation in Aquaculture Ponds	JERAMIE G. DEL VALLE	Mr. ALEX A. RODRIGUEZ, P-III
2	Life Science- Team	BULAN NHS	LYNYRD O. DE CASTRO NATHANIEL G. GRAYDA KERR GABRIEL B. GEROLIA	Cytotoxicity and Free Radical Scavenging Assay of Pomelo (<i>Citrus grandis</i>) Ethanolic Leaves Extract Against Human Acute Myeloid Leukemia Cells	JERIEL G. MARTIREZ	Mr. ALEX A. RODRIGUEZ, P-III
3	Physical Science- Individual	BULAN NHS	SOPHIA KATE G. GIME	Coconut (<i>Cocos nucifera</i>) Coir and Corn (<i>Zea mays</i>)	ERMIE G. GUAN	Mr. ALEX A. RODRIGUEZ, P-III
4	Physical Science- Team	GALLANOSA NHS	JEIMY JOY F. FRESADO CHANEL PAULYN G. GABITO BRYNT CHYSTER G. DE GUZMAN	Potential of Coconut (<i>Cocos nucifera</i>) Ash as Pigment for Natural Plant	MARY ANN J. LACRA CLEOMAE B. GIMPAO	Dr. MARIA TERESITA F. REALO, P-III
5	Mathematics & Computational Science-	GALLANOSA NHS	GIAN CARLO M. ESCAME	Seraphina's Whisper, Escape the Echoes: An Android Game Enhancing the Student's Proficiency	REYMOND F. BANCUAL, LORENA B. OBIDA	Dr. MARIA TERESITA F. REALO, P-III

Individual	Mathematics & Computational Science- Team	Individual	Mathematics & Computational Science- Team	Regarding Fractions' Complexity	Mathematics & Computational Science- Team	Individual	Mathematics & Computational Science- Team
6	GALLANOSA NHS	ERIKA R. PALCOTILO, JAMIE KOREEN H. RELATA, JANEL F. BELTRAN	Regarding Fractions' Complexity	Mapping the Trail: A Mathematical Model Predicting and Depicting the Pattern of Dengue Cases in Irosin, Sorsogon	JENNIE F. OLIVENZA, RYAN G. PANESA	Dr. MARIA TERESITA F. REALO	
7	DONSOL NCHS	CESAR ANTONIO M. AVERILLA	Adaptive Modern Pest Trap Device	Adaptive Modern Pest Trap Device	RONALD L. LOMERIO, VAL. CHESTER C. ALIM	Dr. JOSEPHINE C. EBUENGA, P-III	
8	BULUSAN HS	CHARISSE LIAM F. FULONG, LEO ISAAC C. FULO, LEE BANNA HISITA	Development of an Innovative Product for Slitting Karagumoy Leaves for Karagumoy Weavers in the Municipality of Bulusan	Development of an Innovative Product for Slitting Karagumoy Leaves for Karagumoy Weavers in the Municipality of Bulusan	JEANYLYN S. ANTONIO	Mr. FERMIN G. ESPALLARDO, JR., P-II	
9	MATNOG NHS	PATRICIA GAIL Y. GAJO	Conveyor Belt-Based Segregating Machine	Conveyor Belt-Based Metal Segregating Machine	SALVE G. CHAVEZ, CINDY G. GACIS	Mrs. BENITA A. CIELO, P-II	
10	DONSOL NCHS	DANICA ASHLEY A. CERVANTES, JOHN CHRISTIAN O. CAHILIG, ANNE CHARLOTTE A. AÑANA	RABAS: Responsive Anti-Theft Body Temperature and Alcohol Sensor into Motorcycle Helmet	RABAS: Responsive Anti-Theft Body Temperature and Alcohol Sensor into Motorcycle Helmet	RONALD L. LOMERIO, ALAINE BAGASMAD	DR. JOSEPHINE C. EBUENGA, P-III	
11	BULAN NHS	JOHN RUSELL F. FORTE, GABRIELLE ANDREI R. GERSALIA, BRYCE CODY M. BALASTON	Line Follower Robot	Line Follower Robot	JERIEL G. MARTIREZ RAEJOHN E. ARANGO	Mr. ALEX A. RODRIGUEZ, P-III	
12	BULAN NHS	ASHRON BEN M. GIMPAO, JOHN PAUL G. GUBAN, RAYMOND G. DULAY	Maze Solving Mission Robot	Maze Solving Mission Robot	RAEJOHN E. ARANGO	Mr. ALEX A. RODRIGUEZ, P-III	

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