



Republic of the Philippines
Department of Education
REGION III – CENTRAL LUZON
SCHOOLS DIVISION OFFICE OF NUEVA ECILJA

DEP-ED SDO N.E.
RELEASED
JUN 07 2023

RECORDS SECTION

05 June 2023

DIVISION MEMORANDUM
No. 16, s. 2023

DIVISION WRITESHOP ON THE INTEGRATION OF ROBOTICS IN STEM EDUCATION

To : Assistant Schools Division Superintendents
Division Chiefs, CID and SGOD
Public Schools District Supervisors
School Heads
Science Department Head
STE and STEM Teachers
All Others concerned

1. Relative to the development of 21st century skills of our learners and the application of Futures Thinking and Design Thinking in the delivery of Science instruction, the Schools Division of Nueva Ecija shall conduct a Division Writeshop on the Integration of Robotics in STEM Education on June 10, 2023, June 17, 2023 and July 1, 2023 at PAGCOR Building, Sta. Rosa Nueva Ecija at 8::00AM – 5:00PM.
2. This activity aims to:
 - 2.1 integrate robotics in managing and supporting STEM education;
 - 2.2 equip teachers and learners with the necessary concepts of robotics as an emerging technology;
 - 2.3 acquire basic methods and pedagogies in teaching robotics to STE/STEM students;
 - 2.4 design simple machines by applying the basic concepts and principles in robotics and programming; and
 - 2.5 capacitate teachers and learners with the skills needed in navigating hardware and software applications in robotics.
3. The participants in this activity are the select Grade 10 STE and Grade 11/12 STEM Science teachers who are teaching Electronics and Specialized Subjects in STEM. They are advised to bring Arduino set/kit to be utilized during the activity.
4. Enclosed is the list of participants and training matrix.
Enclosure No. 1 List of Participants
Enclosure No. 2 Training Matrix
5. This division memorandum serves as the Authority to Travel of the participants and for reference purposes.
6. As stipulated in DepEd Order No.53 s. 2003 teacher -participants who render services during the conduct of this activity which may fall during summer vacation or during weekends or during holidays are entitled to service credits equivalent to eight (8) hours of service pay. On the other, the non-teaching personnel as members of planning/technical committees, training team and Project Management Team shall earn Compensatory Time Off (CTO) in lieu of June 10, June 17 and July 1, 2023.



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7. Immediate and wide dissemination of the Memorandum is earnestly desired.


Engr. EDGARD C. DOMINGO, PhD, CESO V
Schools Division Superintendent

Encl.: As stated

To be included in the perpetual index
under the following subjects:
LEARNING RESOURCE
INTERVENTION
TEACHERS
ROBOTICS

DM 2023: Division Writeshop on the Integration of Robotics in Stem Education
2-2/RZB-05/22/2023

Enclosure No. 1 to Division Memorandum No. _____, s.2023

DIVISION WRITESHOP ON THE INTEGRATION OF ROBOTICS IN STEM EDUCATION

Venue: PAGCOR Building, Santa Rosa Nueva Ecija

Inclusive Dates : June 10, 2023, June 17, 2023 and July 1, 2023

I .List of Participants

STE Implementing Schools	Name of Participants	STEM Implementing Schools	Name of Participants
1.Bongabon NHS	Donato B. Gonzales	Bongabon SHS	Concordia I. Villasias
2.Talavera NHS	Jenny Rose L. Andres	Talavera SHS	Grade 11/12 STEM teacher
3.Cabiao NHS	Nelilyn B. Glodo	Cabiao SHS	Rachelle Ann G. Gonzales
4.NEHS	Mark Angelo A. de Jesus	NEHS SHS	Evangeline D. Gonzales
5.Aliaga NHS	John Rusty T. Pereña	Aliaga SHS	Jomar S. Flores
6.Bartolome Sangalang NHS	Jerwin Domingo	Bartolome Sangalang NHS	Ryann Christoper G. Hermoso
7.Dr. Ramon De Santos NHS	Divine S. Daria	Dr. Ramon De Santos NHS	Amor C. Dela Cruz
8.GVAHS	Clarissa Piguero	GVAHS	Engr. Marvin C. Lomanog
9.Jorge M. Padilla NHS	Cherry Ann B. Lagasca	Jorge M. Padilla NHS	Nestor C. Mateo
10.ELJMHS Quezon	Rowell Reinier J. Gonzales	ELJMHS Quezon	Harvey V. Valdez
11.Exequiel R. Lina NHS	Noel Vincent L. Domingo	Exequiel R. Lina NHS	Jennifer C. Valdez
12.Gen. Tinio NHS	Krypton Redgie B. Dela Cruz	Gen. Tinio NHS	Grade 11/12 STEM teacher
13.Gen. Mamerto NHS	Ruel S. Bermudez	Gen. Mamerto NHS	Marvin O. Veneracion
14,Pantabangan NHS	Rizel Uraga	Pantabangan NHS - SHS	Marco Polo Munar
15.Dona Juana Chioco NHS	Patricio M. Flores, Jr.	Dona Juana Chioco NHS	Benedick Celso B. Tenorio
16.Carranglan NHS	Imelda R. Teodoro	Carranglan NHS	Napoleon C. Toquero
17.Palayan City NHS	Marvin Villanueva	Palayan City NHS-SHS	Edwin S. Reyes
18.Rizal NHS	Arthur Allen B. Baldevarona	Rizal NHS-SHS	Roda Araña
19.Julia Ortiz NHS	Mark Kevin T. Abraham	Julia Ortiz NHS- SHS	Grade 11/12 STEM teacher
20.Sto. Domingo Trade NHS	Cristoper T. Carillo	Sto. Domingo Trade NHS	Danjun P. Mariano
21.San Ricardo NHS	Grade 10 STE teacher	San Ricardo NHS-SHS	Jean Benidette S. Dela Cruz

22. Talugtug NHS	Arvey E. Datuin	Talugtug NHS-SHS	Leomar C. Angel
23. Zaragosa NHS	Jessie E. Hernandez	Zaragosa NHS-SHS	Aljohn M. de Leon
24. Penaranda NHS	Michael R. Jacob	Penarada NHS-SHS	Julius R. Manzano
25. Nampicuan NHS	Jenny L. Duenas	Nampicuan NHS	Marisol S. Arangel
26. Santa Rosa NHS	Jennifer R. Corpuz	Santa Rosa NHS	Levie G. Cancer
27. San Mariano NHS	Joselito J. Mangulabnan	San Mariano NHS	Maria Rodessa G. Boquiren
28. Putlod-San Jose NHS	Geraldine P. Gobrin	Putlod-San Jose NHS	Edisen F. Mamauag
29. Llanera NHS	Kevin G. Corpuz	Llanera Senior HS	Fatima M. Zoilo
30. Tagumpay NHS	Grade 10 STE teacher	Tagumpay Senior H	Grade 11/12 STEM teacher

A

Enclosure No. 2 to Division Memorandum No. _____, s.2023

DIVISION WRITESHOP ON THE INTEGRATION OF ROBOTICS IN STEM EDUCATION

Venue: PAGCOR Building, Santa Rosa Nueva Ecija

Inclusive Dates : June 10, 2023, June 17, 2023 and July 1, 2023

II. Training Matrix

Planning Committee:

Chairman : Rosemarie Z. Burayag
EPS, Science

Co-Chair : Honeylette Natividad
HT III, Gen. Natividad NHS

Technical Committee:

Chairman: Jayson M. Lazaro
MT II, Bartolome Sanggalang NHS

Co-Chair : Clerilyn T. Badua
OIC-Head Teacher. Zaragosa NHS

Date	Time	Topics/Activities	Resource Speakers/ Facilitators
June 10, 2023 First Day	8:00AM	Registration of the Participants	Honeylette Natividad HT III, Science Gen. Natividad NHS
	8:20AM – 9:00AM	Pre-Test	Jayson M. Lazaro
	9:00AM - 9:30AM	Opening Program	MT II, Bartolome Sanggalang NHS
	9:30AM – 9:50AM	Health Break	
	9:50AM-12:00PM	Walkthrough on Learning Competency in Electronics and Research	Clarissa Mariano Head Teacher VI Talavera NHS
	12:00PM – 1:00PM	Lunch Break	
	1:00PM -3:30PM	Development of Learning Activity Sheets in Electronics and Research with the Integration of Robotics	Katherine Joy P. Buan Teacher III, Cabiao NHS
	3:00PM- 3:15PM	Health Break	
	3:15PM- 4:30PM	Capstone Project with the Application of Robotics - Team SENOPTICA	Darius Sampaga MT II- Science Talavera NHS
	4:30PM - 5:00PM	Program Evaluation for Day 1	Dr. Jet Lee C. Ocampo SEPS, M and E
June 17, 2023 Second Day	8:00AM – 8:30AM	Management of Learning	Participants from CDI and CD II
	8:30 AM – 12:00AM	Basic Parts of a Robot and other Applications	Hilario F. Matias Jr. Rigel Education Solutions
	12:00PM – 1:00PM	Lunch Break	
	1:00Pm – 4:00PM	Designing of Robotics Activities in Grade 10 Electronics and Research	Hilario F. Matias Jr. Rigel Education Solutions

	4:00PM – 4:30PM	Assigning Participants on the Integration of Robotics Activities in Lesson Planning	Rosemarie Z. Burayag EPS, Science
	4:30PM - 5:00PM	Program Evaluation for Day 2	Dr. Jet Lee C. Ocampo SEPS, M and E
July 1, 2023 Third Day	8:00AM – 8:30AM	Management of learning	Participants from CDIII and CD IV
	8:30AM – 10:00AM	Demonstration Teaching	
	10:00AM -10:30 AM	Provision of TA – Critiquing the output	Members of the TWG Mark Aaron Legaspi Teacher III Bongabon NHS
	10:30AM – 12:00PM	Demonstration Teaching	
	12:00PM – 1:00PM	Lunch Break	
	1:00PM - 1:30PM	Provision of TA – Critiquing the output	Members of the TWG Mark Aaron Legaspi Teacher III Bongabon NHS
	1:30PM – 2:00PM	Post Test	
	2:00PM – 3:00PM	CLOSING PROGRAM	
	3:00PM – 3:30PM	Program Evaluation for Day 2	Dr. Jet Lee C. Ocampo SEPS, M and E