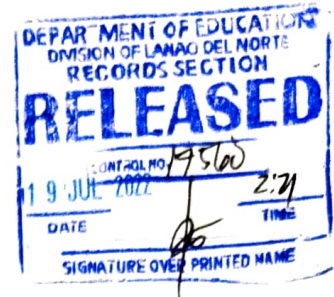




Republic of the Philippines
Department of Education
Region X- Northern Mindanao
SCHOOLS DIVISION OF LANA DEL NORTE



DIVISION MEMORANDUM

No. 346 s.2022

To: Secondary School Principals
Secondary Science Teachers Concerned
This Division

From: **EDILBERTO L. OPLENARIA, CESO V**
Schools Division Superintendent

Subject: **DIVISION TRAINING – WORKSHOP ON ROBOTICS**

Date : July 15,2022

1. Pursuant to DepEd Memo 038, s.2022, National Science and Technology Fair, another category is added which is ROBOTICS & INTELLIGENT MACHINE. It is in this premise that the Curriculum Implementation Division (CID) will conduct a Division Training – Workshop on ROBOTICS on July 26 – 28, 2022 at Horizons Resort, Bag-ong Dawis, Baroy, Lanao del Norte.
2. The training will provide teachers with hands-on lessons and activities about the components of robotics, such as hardware, electronics, and programming, to assist them in creating new devices that can assist humans in performing daily activities and functions.
3. Enclosed are the training matrix and the list of participants.
4. Participants are expected to have already claimed their Arduino starter kit from the Division Supply Office before the training.
5. Teacher – participants and facilitators shall be given 3-day service credits per DepEd Order No. 53 s.2003.
6. Traveling and other incidental expenses of the participants shall be charged to local funds subject to the usual accounting and auditing rules.
7. Participants are encouraged to observe proper health protocol such as wearing of face masks and social distancing.
8. Immediate and wide dissemination of this Memorandum is desired.

Enclosure No. 1 – TRAINING MATRIX**DAY 1**

Time/Duration	Title of the Session	Key Content	Person In - Charge
9:00 AM– 9:30AM	Opening Program	National Anthem Opening Prayer Opening Message Introduction of Participants and Resource Speakers	Rhona Baldago Belen T. Bastillada Maria Eva S. Edon
9:30AM-10:30AM	Introduction to Robotics	ROBOTICS	Keilah E. Hoy
10:30AM – 11:30AM	Fundamentals of Robotics	ROBOTICS	Keilah E. Hoy
11:30AM – 12:30PM	Safety Procedures		Marichu T. Miscala
12:30PM – 1:30PM	Basic Electronics		Marichu T. Miscala
1:30PM -4:30PM	Basic Construction Basic Programming		Ivan Belnas

DAY 2

Time/Duration	Title of the Session	Key Content	Person In - Charge
9:00 AM– 9:30AM	Opening Program	Nationalistic Song Opening Prayer Recap Energizer	Rhona Baldago
9:30 AM-10:30AM	Basic Programming 2		Marichu T. Miscala
10:30AM – 11:30AM	LED Controlled by a Potentiometer RGB LED Controlled by a Button	ROBOTICS	Marichu T. Miscala
11:30 AM – 1:30 PM	Advance Programming Part 1		Keilah E. Hoy
1:30PM – 4:30PM	Mini Emergency LED using Joystick		Ivan Belnas

DAY 3

Time/Duration	Title of the Session	Key Content	Person In - Charge
9:00 AM– 9:30AM	Opening Program	Nationalistic Song Opening Prayer Recap Energizer	Rhona Baldago
9:30AM – 12:00 Noon	Proficiency in ROBOTICS	Create robotics using Arduino Kit and encode the Arduino code	Marichu T. Miscala Keilah E. Hoy Ivan Belnas Edgar Mark C. Secuya
1:00PM – 4:00PM	Construction and Programming Arduino	Perform robot using Arduino Kit	Edgar Mark C. Secuya
4:00PM – 5:00PM	Closing Ceremony		Rhona Baldago Belen T. Bastillada Maria Eva S. Edon

Enclosure No. 2 – LIST OF PARTICIPANTS

PARTICIPANT	SCHOOL
1.Harold C. Delostrico	Lala NHS
2.Sherwin Faisal Melegrito	SADMIS
3.Glenn Reuben B. Roa	Linamon NHS
4. Mark Joram A. Metante	Bansarvil NHS
5.Dindo A. Daing	KNHS
6.Wendell B. Estocada	PMNHS
7.Rumton S. Abenes	TCQNHS
8.Eric Lamis	Maigo NHS
9.Danielle Rose B. Ragpala	Rufo de la Cruz IS
10.Clifton C. Duavis	MTMNHS
11.Elizardo C. Cabo	LNPSTHS
12. Ritchel L. Marcera	GCNHS
13.Gale O. Mejares	Panoloan NHS
14. Bernabe T. Eroy Jr.	DHPNHS
15.Saul Begontes	Salvador NHS
16.Rosenia Bali	GCNHS
17.Ariel Homillano	Liangon NHS
18.Princess Angelica Pisla	Baloi NHS
19. Christopher John I. Gayta	LNNCHS
20.Jackson Ebarat	KNHS