

Republic of the Philippines **Department of Education**Region X-Northern Mindanao

DIVISION OF CAGAYAN DE ORO CITY

Fr. Masterson Avenue Upper Balulang, Cagayan de Oro City

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May 16,2019 EASED

DIVISION MEMORANDUM No. <u>384</u> s. 2019

3rd STEM TRAINING CASCADE: #TALINO (Teaching and Learning Innovations) Bootcamp Mindanao Cluster

To: EDUCATION PROGRAM SUPERVISORS (Math & Science)
CONCERNED SECONDARY SCHOOL HEADS (Gusa RSHS-X & CDONHS-JHS)
This Division

- 1. The Department of Education (DepEd) has partnered with the Department of Science and Technology (DOST), Philippine Science High School System (PSHS), Nanyang Polytechnic International, and Temasek Foundation on Innovations in Teaching and Learning STEM. As part of the PSHS' commitment on cascading the training, they will conduct the 3rd STEM Training Cascade: #TALINO (Teaching and Learning Innovations) Bootcamp Mindanao Cluster at PSHS Southern Mindanao Campus, Sto. Niño, Tugbok District, Mintal, Davao City, from July 5 to 8, 2019.
- 2. The activity aims to help introduce new concepts and strategies that will help build up STEM education within the region. It is designed as a boot camp where teachers do not only hear about but also experience problem-based learning and design thinking.
- 3. The identified DepEd CDO participants are as follows:

Office	Name of Participants	Position/Specialization
SDO Cagayan de Oro City	Ray O. Maghuyop	Math Division Supervisor
	Eduardo T. Cartel/ Joel D. Potane	Science Division Supervisor
Gusa Regional Science	Brenda P. Galarpe	Principal
High School	Joan Ohay	Biology
	Aristotle Mabale	Chemistry
	Sherryl Emata	Physics
	Jerico Parreno	Mathematics
	Lloyd Allan Cabunoc	Research
	Doris Napone	Research
Cagayan de Oro National	William C. Agomana	Principal
High School	Jacqueline G. Gasatan	Biology
	Lauren M. Manus	Chemistry
	Leah Lyn A. Lingatong	Physics
	Cherry Mae P. Casinillo	Mathematics
	Margareth H. Macabodbod	Research
	Severino M. Cantorne	Research

- 4. All travel expenses including per diem and other incidental expenses of participants for their participation in the activity shall be charged against local funds while food and accommodation shall be shouldered by the PSHS, subject to existing auditing and accounting rules and regulations.
- 5. Participants are required to fill in the pre-registration form in this link: http://goo.gl/forms/FCbMH6xdt2WtX7gD3.
- 6. Enclosed are the DepEd Memorandum, List of Participants, Registration Form, and Program of Activities for your reference.

7. Immediate dissemination of this Memorandum is desired.

JONATHAN S. DELA PEÑA, Ph. D., CESO V

Schools Division Superintendent

Encls: As stated

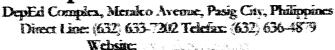
To be indicated in the Perpetual Index under the following subjects:

Math Science Innovations

cid/ray



Department of Education





Undersecretary for Curriculum and Instruction

MEMORANDUM DM-CI-2019-00094

FOR

ALL CONCERNED REGIONAL DIRECTORS

AND BUREAU DIRECTORS

FROM

LORNA DIG DINO, Ph. D.

Undersecretary

SUBJECT

#TALINO BOOTCAMP

DATE

April 2, 2019

The Department of Education has partnered with the Department of Science and Techology (DOST), Philippine Science High School System (PSHS), Nanyang Polytechnic International and Temasek Foundation on the Innovations in Teaching and Learning STEM. As part of the PSHS' commitment on cascading the training, they will conduct the 3rd STEM Training Cascade: #TALINO (Teaching and Learning Innovations) Bootcamp on the dates and venues indicated below:

Cluster	Dates (Exclusive of Travel Time)	Venue
North Luzon Cluster	June 28 to July 1, 2019	PSHS Cagayan Valley Campus Brgy. Masoc, Bayombong, Nueva Vizcaya
NCR and South Luzon Cluster	June 21 to 24, 2019	PSHS Main Campus Agham Road, Diliman, Quezon City
Visayas Cluster	June 28 to July 1, 2019	PSHS Eastern Visayas Campus Pawing, Palo, Leyte
Mindanao Cluster	July 5 to 8, 2019	PSHS Southern Mindanao Campus Sto. Niño, Tugbok District, Mintal, Davao City

The #TALINO Bootcamp is designed to help introduce new concepts and strategies that would help build up STEM education within the region. It is designed as a boot camp where teachers do not only hear about but also experience problem-based learning and design thinking.

In this regard, slots have been provided for your Science/Math Division Supervisor, Principal and teachers to attend the said boot camp. Please see Enclosure 1 for the detailed number of participants and particulars per region.

Likewise,	please	advise a	Il participant	s to accomplis	h the	online i	registration	from	through
the link	itosi/ig	oo.ql/fom	s FObMH6x	<u> </u>	or sub	mit the	accomplis	hed :	attached
registration	on form	to the #T	ALINO Regis	stration Commi	ttee c	luster c	coordinator	via e	mail.



Department of Education

DepEd Complex, Meralco Avenue, Pasig City, Philippines Direct Line: (632) 633-7202 Telefax: (632) 636-4879



Website State Land Control

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Once the school's registration has been confirmed, the committee shall send the pretraining guidelines/instructions thru email.

Participants are requested to observe the following:

- 1. Take the cheapest means of transportation to and from the venue.
- 2. Bring their own towels.
- 3. Note that first meal is Dinner of Day 0. Please refer to the Program of Activities attached on this memorandum.
- Present endorsement from the Regional Director or the Asst. Regional Director if he/she is a replacement.

All travel expenses including per diem and other incidental expenses of facilitators relative to their participation in the aforecited activity shall be charged against the local funds. Food and accommodation will be shouldered by the PSHS.

Heads of institutions are encouraged to assign individuals who will handle the duties of participants while they are on official travel. Teacher-participants shall be entitled to service credits in accordance with DepEd Order NO. 53, s. 2003 entitled *Updated Guidelines on the Grant of Vacation Service Credits to Teachers*. On the other hand, non-teaching personnel shall be provided with Compensatory Time-Off (CTO) per Civil Service Commission (CSC) and Department of Budget and Management (DBM) Joint Circular No. 2, s. 2004 on Non-Monetary Remuneration for Overtime Service Rendered.

You may email your inquiries and other related concerns to talino@pshs.edu.ph.

Immediate dissemination and response is advised.



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ENCLOSURE 1

LIST OF PARTICIPANTS

NORTH AND CENTRAL LUZON CLUSTER

June 28 to July 1, 2019 at PSHS Cagayan Valley Campus

REGION	OFFICE / DIVISION / SCHOOL	PARTICULARS
	SDO La Union	Math Division Supervisor Science Division Supervisor
	Regional Science High School for Region I	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Luna National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Isabela	1 Math Division Supervisor 1 Science Division Supervisor
	Regional Science High School for Region II	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
Tumauini National High School		1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
etzakkilikkert (del 1964 - † 1964) kilon kilon eta	SDO Olongapo City	Math Division Supervisor Science Division Supervisor
115	Regional Science High School – Ill	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Olongapo City National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Benguet	Math Division Supervisor Science Division Supervisor
CAR	Cordillera Regional Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Benguet National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
CO	Bureau of Curriculum Development	Joseph Gutierrez



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Direct Line: (632) 633-7202 Telefax: (632) 636-4879
Website: Separate Department of the Pasig City of the Pasig City of the Pasig City of the Pasig City of the Pasig



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NCR AND SOUTH LUZON CLUSTER

June 21 to 24, 2019 at PSHS Main Campus

REGION	OFFICE / DIVISION / SCHOOL	PARTICULARS
	SDO Cavite Province	1 Math Division Supervisor
	OOO OGTAB / TOTARS	1 Science Division Supervisor
		1 Principal
	Cavite National Science High	6 teachers in the field of Biology, Chemistry,
IV-A	School	Physics, Mathematics and Research (make sure
,.		that each field is represented)
		1 Principal
	Maragondon National High School	6 teachers in the field of Biology, Chemistry,
	The agondon Helional Flight School	Physics, Mathematics and Research (make sure
		that each field is represented)
	SDO Oriental Mindoro	1 Math Division Supervisor
		1 Science Division Supervisor
	Bansud National High School -	1 Principal
	Regional Science High School for	6 teachers in the field of Biology, Chemistry,
IV-B	Region IV-B Mimaropa	Physics, Mathematics and Research (make sure
		that each field is represented)
		1 Principal
	Apitong National High School	6 teachers in the field of Biology, Chemistry,
		Physics, Mathematics and Research (make sure
		that each field is represented)
	SDO Naga City	1 Math Division Supervisor
		1 Science Division Supervisor
		1 Principal
	Naga City Science High School	6 teachers in the field of Biology, Chemistry,
V		Physics, Mathematics and Research (make sure
		that each field is represented)
		1 Principal
	Bicol Regional Science High School	6 teachers in the field of Biology, Chemistry,
***************************************	-	Physics, Mathematics and Research (make sure
		that each field is represented)
1	SDO Quezon City	1 Math Division Supervisor 1 Science Division Supervisor
and the second		1 Principal
To Committee Control		6 teachers in the field of Biology, Chemistry,
4400	Quezon City Science High School	Physics Mathematics and Bassonh (mathematics
NCR		Physics, Mathematics and Research (make sure that each field is represented)
		1 Principal
200		6 teachers in the field of Biology, Chemistry,
o year	Ramon Magsaysay High School	Physics, Mathematics and Research (make sure
		that each field is represented)
	Bureau of Curriculum Development	Lilia Lagrimas
co		1 Science Specialist
ł	Bureau of Learning Delivery	1 Math Specialist



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VISAYAS CLUSTER

June 28 to July 1, 2019 at PSHS Eastern Visayas Campus

REGION	OFFICE / DIVISION / SCHOOL	PARTICULARS
	SDO Aktan	1 Math Division Supervisor 1 Science Division Supervisor
VI	Regional Science High School for Region VI	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Aklan National High School for Arts and Trades	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Dumaguete City	Math Division Supervisor Science Division Supervisor
VII	Ramon Teves Pastor Dumaguete Science HS	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Piapi High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Catbalogan City	Math Division Supervisor Science Division Supervisor
VIII	Samar National School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Eastern Visayas Regional Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
CO	Bureau of Curriculum Development National Educators Academy of the Philippines	Eliza Peralta 2 Specialists



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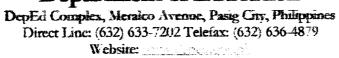
MINDANAO CLUSTER

July 5 to 8, 2019 at PSHS Southern Mindanao Campus

REGION	OFFICE / DIVISION / SCHOOL	PARTICULARS
	SDO Zamboanga City	1 Math Division Supervisor
		1 Science Division Supervisor
IX	Regional Science High School for Region IX	Principal teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure)
	Don Pablo Lorenzo Memorial High School	that each field is represented) 1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Cagayan de Oro City	Math Division Supervisor Science Division Supervisor
X	Gusa Regional Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Cagayan de Oro National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO City of Mati	1 Math Division Supervisor 1 Science Division Supervisor
ΧI	Davao Oriental Regional Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Mati National Comprehensive High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Sarangani	Math Division Supervisor Science Division Supervisor
XII	Alabel National Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	Alabel National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
	SDO Surigao City	Math Division Supervisor Science Division Supervisor
Caraga	Caraga Regional Science High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)



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	Surigao City National High School	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
designation of provident polymers and real	SDO Maguindanao II	1 Science Supervisor
ARMM	Regional Science High School for ARMM	1 Principal 6 teachers in the field of Biology, Chemistry, Physics, Mathematics and Research (make sure that each field is represented)
CO	Bureau of Curriculum Development	Bernadeth Daran



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Department of Science and Technology

Philippine Science High School System

Agham Road, Diliman Quezon City



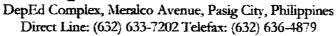
Program of Activities

MANAGEMENT TO SE

	Day 0 - ARRIVAL	Day 1	Day 2	Day 3	Day 4
8:00-8:30		Registration	Management of Learning (reflection)	Management of Learning (reflection)	Management of Learning
8:30-9:00		0			
9:00-9:30		Opening Program	Plenary 2:		Viewing of Exhibit
9:30-10:00 10:00-10:30		Intro to the Boot Camp (Design Thinking)	Design Thinking (c/o Ma'am Gene)	Solding (Menoral of Charles)	Pienary : Keynote on Industry- Academe partnership
10.30-11:00		To example the control of the contro		Plenary 4: Creative	
11,00-11:30	ARRIVAL and	Plenary 1: Understanding your Learners	Pienary 3: 21st Century Classroom Integrating Technology in	Creative Workshops	Round table discussion or partnership (Principals and Directors) /Culminating: Sharing of outcomes (Teachers)
11:30-12:00	REGISTRATION of Participants		Education (c/o CS Unit)		Mentoring Sign-Up
12:30-1:30		LUNCHBREAK		Networking Lunch	
1:30-2:00	A Company of the Comp				- ACHIONING LOCAL
2:00-2:30	to the state of th		94 to 200		Closing Program
2:30-3:00	en e		Parallel	Parallel	
3:00-3:30	TRANSPORTER	External Learning	Sessions by	Sessions	
3.30-4:00	e e Partie	Journey (Felo Trip):	Discipline (Part	by Discipline (Part II)	
4.00-4.30		Design Thinking introduction			300 m · s · s · s · s · s · s · s · s · s ·
4:30-5:00	After account of the contract	E PROCESSA CONTRACTOR S	# Andrews		Departure
5:00-5:30			Parallel	Parallel.	
5:30-6:00			Sessions (Extension)	Sessions (Extension)	
6:00-8:00	DINNER (1st meal) Getting to know you dinner + sharing of output		DINNER	BREAK	



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Republic of the Philippines

Department of Science and Technology

Philippine Science High School System

Agham Road, Diliman Quezon City



Please fill out the form for your registration. For teacher participants, specify your subject area i.e. Integrated Science, Mathematics, Physics, Chemistry, ICT, Biology.

	Registration Form				
Name of School:					
Region/ Cluster:					
Name	Position/ Designation	Email Address	Subject Area (for teacher participants only)		
		No.			
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		Political condition			
		BANKE DAVIDO LINE			
	Section 200				

Kindly submit the accomplished registration form to the #TALINO Registration Committee cluster coordinator via email on or before [insert date]:

North and Central Luzon Cluster	Melba Patacsii melba patacsii@yahoo.com pri
NCR & South Luzon Cluster	Anna Carmela Bonifacio obbonifacio@pshs.edu.ph
Visayas Cluster	Eleazar Guia ebguia@cvisc.pshs.edu.ph
Mindanao Cluster	Daisyre Altar dgaltar@crc.pshs.edu.ph

For inquiries, you may get in touch with us, through sending us an email at talino@pshs.edu.ph.