

Republic of the Philippines

Department of Education region xi schools division of digos city

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2024-257

To

Assistant Schools Division Superintendent

CID and SGOD Chiefs

Public Schools District Supervisors

Education Program Supervisor in Science

School Head of Digos City National High School

Science Department Head of Digos City National High School

Ms. Floradel Dumadag Ms. Aileen Joy M. Sanchez

Subject:

INVITATION TO THE UNESCO-UNITWIN KNUE-UP TRAINING ON DIGITAL COMPETENCE AND LIFELONG LEARNING FOR STEM

EDUCATORS, 15-17 JULY 2024, UP NISMED AUDITORIUM, UP

DILIMAN, QUEZON CITY

Date :

July 8, 2024

Attached is a letter from Prof. Sheryl Lyn C. Monterola, Ph.D., Diretor of National Institute for Science and Mathematics Education Development, re: Invitation to the UNESCO-UNITWIN KNUE-UP Training on Digital Competence and Lifelong Learning for STEM Educators on July 15 to 17, 2024 at UP NISMED Auditorium, UP Diliman, Quezon City.

Participants of this training are: (1) Ms. Floradel Dumadag and (2) Ms. Aileen Joy M. Sanchez, both from Digos City National High School.

Accommodation, meals and training fee of the participants shall be charged against UNESCO-UNITWIN KNUE while the transportation and incidental expenses shall be charged against local/school MOOE subject to usual accounting and auditing rules and regulations.

All other details of the activity are in the enclosures.

Immediate dissemination of this Memorandum is hereby enjoined.

For and in the absence of the Schools Division Superintendent

RECORDS SECTION

SOLLIE B. OLIVER, JD, MATE

Chief Education Supervisor Officer In-Charge

Enclosed: As statedy.

CID/jbc

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4 July 2024

Melanie P. Estacio, PhD, CESO VI OIC Schools Division Superintendent Department of Education, Digos City

Re: Invitation to the UNESCO-UNITWIN KNUE-UP Training on Digital Competence and Lifelong Learning for STEM Educators, 15-17 July 2024, UP NISMED Auditorium, UP Diliman, Quezon City

Dear Dr. Estacio:

Greetings from the UP National Institute for Science and Mathematics Education Development!

The University of the Philippines has partnered with the Korea National University of Education (KNUE) for the UNESCO UNITWIN Network for Quality Teacher Education. As part of the partnership, KNUE, the UP College of Education, and the UP National Institute for Science and Mathematics Education Development are co-organizing a three-day professional development program called **Training on Digital Competence and Lifelong Learning for STEM Educators.** It will be held on 15-17 July 2024 at the **UP NISMED Auditorium, UP Campus, Diliman, Quezon City**. It will immerse participants in hands-on workshops and plenary talks from professors and specialists from KNUE and UP. Please see attached agenda for the three-day training.

In this regard, may we invite **Ms. Floradel Dumadag** and **Ms. Aileen Joy M. Sanchez** from your institution to participate in the program as facilitator and participant, respectively? The **program is by-invitation only** and **free of charge**, courtesy of the support from UNESCO-UNITWIN KNUE. The said support covers: (a) accommodation of the participants at the UP NISMED Hostel from July 14 to July 18, 2024; (b) meals; and (c) training fee. This excludes transportation to the University of the Philippines - Diliman. We hope that the sending institution can charge the participant's transportation expenses to their available funds for professional development. We also recommend that participants bring their own laptop.

We look forward to your favorable response. Please ask your institution's nominated participant/s to complete the **registration on or before 10 July 2024** using this link: https://forms.gle/mmzNjx3Tf7qnHfw56.

Thank you very much.

Sincerely,

PROF. SHERYL LYN C. MONTEROLA, Ph.D.

Director









UNESCO UNITWIN In Partnership with the Korea National University of Education (KNUE) and UP College of Education (UPCED)

Training on Digital Competence and Lifelong Learning for STEM Educators

Hosted by	UNESCO-UNITWIN, Korea National University of Education, UP College of Education
Organizer	UP College of Education and NISMED (National Institute for Science and Mathematics Education Development)
	Jerome T. Buenviaje, PhD
	Sheryl Lyn C. Monterola, PhD
	Lady Angela M. Rocena
	Robert John D. Dela Cruz
	Floradel M. Dumadag
Main objective/s	 To discuss lifelong learning in relation to learner's well-being and future readiness To try out various digital tools for developing learners' higher-order thinking skills and lifelong learning skills To explore the use of artificial intelligence (AI) in teaching STEM To determine new ways of assessing student competence in STEM To create lesson exemplars integrating lifelong learning or the use of digital tools in the Philippine curriculum
Schedule and Venue:	15 – 17 July 2024 UP NISMED Auditorium, UP Diliman, QC

	14 July 2024
Arrival (Check-in: UP NISMED Hostel)	
	15 July 2024
	Day 1 UP NISMED Autiorium
8:00 - 8:30 am	Registration
8:30 - 9:30 am	Opening Program
	Philippine National Anthem
	Republic of Korea National Anthem
	Republic of Rorea National Anthem
	Welcome Remarks
	Chancellor Edgardo Carlo L. Vistan III
	Chancellor, University of the Philippines - Diliman
	Opening Remarks
	Dr. Younghoon Kim (Video Message)
	Project Manager, UNESCO UNITWIN Program on Quality Teacher Education
	Dr. Young Sek Kim (In-person)
	Professor, Department of Education (Adult Education), Korea National University of Education (KNUE)
	Introduction of the Participants
	Dr. Sheryl Lyn C. Monterola
	Director, National Institute for Science and Mathematics Education

	Development, (UP NISMED)
	Group Photo
9:30 - 10:15 am	Keynote Message
	Improving Quality Teacher Education in the Philippines: UNESCO- UNITWIN Network for Quality Teacher Education
	Dr. Jerome T. Buenviaje
	Dean, College of Education, University of the Philippines - Diliman
	Q&A
	(30-minute presentation; 15-minute Q&A)
10:15 - 10:30 am	Health break
10:30 - 11:15 am	Seminar 1
,	Exploring Digital Tools for STEM Learners' Future Readiness
	Dr. Sheryl Lyn C. Monterola
	Director, UP NISMED
	Q&A
1	(30-minute presentation; 15-minute Q&A)
11:15 - 12:00 nn	Training Orientation
	Dr. Sheryl Lyn C. Monterola
	Director, UP NISMED
12:00 - 1:00 pm	Lunch
1:00 - 3:00 pm	Workshop 1
	Using Micro:bit in Making Microcontroller Projects for Classroom Use

	Objectives:	
	 familiarize the teachers with the use of Micro:bit demonstrate classroom lessons/activities/projects that utilize microcontrollers develop teachers skills in coding and using microcontrollers setup/project in their lesson 	
	Team Leader: Ms. Cerilina Maramag	
	Deputy Director for Administration, UP NISMED	
	Lead Trainer: Ms. Deborah Anne L. Colades	
	Facilitators: Ms. May R. Chavez	
	Ms. Beatrice Faye M. Mataac Ms. Floradel M. Dumadag, DepEd	
2.00 2.15		
3:00 - 3:15 pm	Health break	
3:15 - 5:00 pm	Continuation of Workshop 1	
5:00 - 5:30 pm	Travel to dinner place	
5:30 - 7:30 pm	Dinner (Kamay-Kainan, Kalayaan Avenue, Quezon City)	
7:30 - 8:00 pm	Return to hotel	

	16 July 2024	
	Day 2	
8:00 - 8:30 am	Pre-workshop	
8:30 - 9:15 am	Seminar 2 (tentative title)	
	Lifelong Learning and Learner's Well-being and Future-Readiness	
	Dr. Young Sek Kim	
	Korea National University of Education	
`	Q&A	
	(30-minute presentation; 15-minute Q&A)	
9:15 - 10:30 am	Workshop 2	
	Transforming STEM Education and Research through Generative Al	
	Objectives:	
	explain Generative AI and its potential role in STEM education and research	
	 construct effective prompts to create images and text outputs; design learning plans and instructional materials using varied GenAl tools and platforms; and 	
	create a draft for their institution's (school or classroom) policy on the responsible and creative use of AI	
	Team Leader and Lead Trainer: Ms. Reena Ongsotto Science Education Specialist, UP NISMED	
	Facilitators: Asst. Prof. Ramon Sanchez III, College of Education Asst. Prof. Regina Carla Taduran, UP Integrated School	
10:30 - 10:45 am	Health break	
10:45 - 12:00 nn	Continuation of Workshop 2	

12:00 - 1:00 pm	Lunch
1:00 - 3:00 pm	Workshop 3 Crafting Tomorrow's Innovators: 3D Printing Training for Teachers
	Objectives:
	 explain the general additive manufacturing process; create 3D models using a CAD software; operate an FDM 3D printer; and showcase their own 3D model designs and printed objects that can be used for teaching
	Team Leader: Mr. Renz Salas Science Education Specialist, UP NISMED
	Lead Trainers: Mr. Renz Salas and Mr. Jobeth Martecio
	Facilitators: Ms. Monique Anne B. Tizon Mr. Jude Krisson Toledo Mr. Robert John dela Cruz
3:00 - 3:15 pm	Health break
3:15 - 5:00 pm	Continuation of Workshop 3
5:00 - 7:00 pm	Dinner
7:00 - 7:30 pm	Return to hotel (Meeting with KNUE Representatives for teacher consultation) (tentative)

	17 July 2024	
	Day 3	
8:00 - 8:30 am	Pre-workshop	
8:30 - 9:15 am	Seminar 3 (tentative title) Leveraging Digital Technology for Instructional Excellence Dr. Youngju Lee Korea National University of Education Q&A	
	(30-minute presentation; 15-minute Q&A)	
9:15 - 10:30 am	Workshop 4 Empowering Teachers through Mobile App Development Objectives: 1. navigate the interface of MIT App Inventor; 2. apply fundamental coding concepts in developing mobile apps 3. design and create educational apps for teaching science and mathematics Team Leader: Monalisa T. Sasing Deputy Director for Research and Extension, UP NISMED Lead Trainer: Mr. Jobeth Martecio Facilitators: Mr. John Alex M. Reyroso Ms. Loise Angelica G. Oruga Asst. Prof. Lady Angela Rocena, UP Integrated School	
10:30 - 10:45 am	Health break	
10:45 - 12:00 nn	Continuation of Workshop 4	

12:00 - 1:00 pm	Lunch
1:00 - 3:00 pm	Continuation of Workshop 4
3:00 - 3:15 pm	Health break
3:15 - 4:00 pm	Continuation of Workshop 4
4:00 - 5:00 pm	Closing Program
	Congratulatory Message
	Dr. Yong Sek Kim
	Professor, Korea National University of Education,
	UNESCO UNITWIN Program on Quality Teacher Education
	Response from Participants
	Awarding of Certificates
	Workshop Highlights
	Group Photo
	Closing Remarks
	Dr. Jerome T. Buenviaje
	Dean, UP College of Education
5:00 - 5:30 pm	Travel to dinner place
5:30 - 7:30 pm	Dinner (UP Hotel)
7:30 – 8:00 pm	Return to hotel

18 July 2024	
Departure (Check out: UP NISMED Hostel)	