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Deped Regional Advisory No. 102, s. 2022
June 3, 2022

In compliance with DepEd Order (DO) No. 8, s. 2013
This advisory is issued not for endorsement per DO 28, s. 2001,
but only for the information of DepEd officials,
personnel/staff, as well as the concerned public.
(Visit deped.in/ro8issuances)

TRAINING WORKSHOP IN INCLUSIVE SCIENCE EDUCATION FOR LINGUISTIC AND CULTURAL DIVERSITY

Attached is a letter from the Philippine Normal University, announcing the conduct of the Training Workshop in Inclusive Science Education for Linguistic and Cultural Diversity on July 19 – 27, 2022 for the synchronous and July 28 – August 15, 2022 for the asynchronous (as per schedule with mentors) via zoom.

The participants are the Science teachers from all grade levels.

Participation of both public and private schools shall be subject to the *no-disruption-of-classes policy* stipulated in DepEd Order No. 9, s. 2005 entitled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith.*

For more information, refer to the attachment.

Considering that this is an Advisory, Schools Division Superintendents are given the discretion to act on this matter.

CLMD-RRT
DepEd RO8 ATA-**F21** (CY2018-v03-r00)

DEPARTMENT OF EDUCATION
RECORDS SECTION, REGIONAL OFFICE NO. VIII
RECEIVED
4:14 pm
By: Date: 6/3/22

PHILIPPINE NORMAL UNIVERSITY
The National Center for Teacher Education
OFFICE OF THE UNIVERSITY PRESIDENT

Taft Avenue corner Ayala Boulevard, Ermita, Manila (+63 2) 5317 1768 loc. 715/716 president@pnu.edu.ph

May 31, 2022

DR. EVELYN R. FETALVERO
Regional Director
Department of Education – Region VIII
Government Center, Candahug, Palo, Leyte

Dear **Regional Director Fetalvero:**

The Philippine Normal University, as the National Center for Teacher Education and a champion of teacher quality, will be conducting an intensive **Training Workshop in Inclusive Science Education for Linguistic and Cultural Diversity**. We envision that this will help in the aspect of retooling science faculty members teaching in the preservice in order to promote inclusive and quality science education of teacher education programs. We foresee this program as a venue to create a consortium of science educators/teachers who will promote advancement in science to improve quality, sustainability, and inclusivity in science education at the basic education level.

In view of this, we would like to request for an endorsement from DepEd Region VIII of the aforementioned training program for Science Teachers, which may accommodate up to 500 participants via Zoom Video Conferencing. Please find attached the required documents, for your review and consideration.

Thank you in anticipation of your positive response to our request.

Very truly yours,

BERT J. TUGA, PhD
President

Training Workshop in Inclusive Science Education for Linguistic and Cultural Diversity

List of Speakers/Resource Persons together with their Educational Qualifications

Speakers/Resource Persons	Education Qualifications
Prof. Marie Paz E. Morales ESTA-Phil-PNU Project Lead	Doctor of Philosophy in Science Education at De La Salle University
Prof. Sylvia Markic ESTA-Project Lead	Dr. re. nat with summa cum laude at University of Education-Ludwigsburg
Dr. Ruth A. Alido ESTA-Phil-PNU Team	Doctor of Philosophy in Applied at Linguistics De La Salle University
Mr. Alfons Jayson O. Pelgone ESTA-Phil-PNU Team	Doctor of Philosophy in Science Education at Philippine Normal University (2017-Present)
Dr. Leah Amor S. Cortez ESTA-Project Team	Doctor of Philosophy in Biology at De La Salle University-Dasmarinas
Dr. Zenaida Q. Reyes ESTA-Phil-PNU Team	Doctor of Philosophy in Philippine Studies at University of the Philippines
Dr. Crist John M. Pastor ESTA-Phil-PNU Team	Doctor of Philosophy in Biochemistry University of the Philippines
Dr. Rochelle Irene G. Lucas ESTA-Phil-DLSU Team	Doctor of Philosophy in Applied Linguistics at De La Salle University
Dr. Arlyne C. Marasigan ESTA-Phil-PNU Team	Doctor of Philosophy in Educational Leadership and Policy at Beijing Normal University
Mr. Ruel A. Avilla ESTA-Project Team	Master of Arts in Science Education with specialization in Chemistry at Philippine Normal University
Dr. Marika Kapanadze ESTA-Georgia Team	Doctor of Philosophy in Education at Ilia State University

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Dr. Lydia S. Roleda ESTA-Phil-DLSU Team	Doctor of Philosophy in Physics at De La Salle University
Dr. Brando C. Palomar ESTA-Project Team	Doctor of Philosophy (Research Postgraduate Programme) at The Education University of Hong Kong
Prof. Nelson Garcia PNU-Manila	Doctor of Philosophy in Chemistry at the University of Santo Tomas
Prof. Amber Dea Marie V. Peguit-Opeda PNU-Manila	Master of Arts in Physics at Mindanao State University-Iligan Institute of Technology
Mr. Jayson L. De Vera PNU-Manila	Doctor of Philosophy in Science Education at Philippine Normal University (2017-Present)
Dr. Marie Grace S. Cabansag PNU-Manila	Doctor of Philosophy at Isabela State University
Dr. Brian M. Limson PNU-Manila	Doctor of Medicine at De La Salle Medical & Health Sciences Institute

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Training Workshop in Inclusive Science Education for Linguistic and Cultural Diversity

REGISTRATION FEE

NO REGISTRATION FEE

VENUE:

ONLINE (VIA ZOOM VIDEO CONFERENCING)

TIME DURATION:

Synchronous: July 19, 20, 21, 22, 25, 27, Asynchronous [as per schedule with mentors: July 28-August 15], Closing Activity: August 16, 2022

PROGRAM

Sub-Topics and Time Allotment for every topic (in hours)	Program Flow	Oral Presentation Themes	Speakers and Moderators
Day 1: [1:00-5:00 PM] Opening Program: **Keynote 1**: Teacher Quality **Plenary 1**: Science Education **Keynote 2**: ESTA Program and the International Consortium	1:00-1:45 PM Opening Program 2:00-2:45 Keynote 1 2:45-3:30 Plenary 1 3:30-4:30 Keynote 2 4:30-5:00 Q&A	**Keynote 1: Teacher Quality** This session will provide key discussion points on teacher quality. The aim is to provide teachers with an understanding of the extent of teacher quality to achieving quality education referenced to global themes such as the SDGs and national focus. **Plenary 1: Science Education** This session will familiarize teachers with the general purposes of Science Education and the aims and	**VPA Jennie V. Jocson** Vice President for Academics, PNU-Manila **Prof. Marie Paz E. Morales** ESTA-Phil-PNU Project Lead] **Prof. Sylvia Markic** ESTA-Project Lead Moderator/Facilitator: **Mr. Alfons Jayson O. Pelgone**

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		goals of science education in the Philippines. **Keynote 2: ESTA Program and the International Consortium** This session will focus on the description and nature of the international capacity building program for science teachers.	ESTA-Phil-PNU Team
Day 2: [1:00-5:00 PM] **Plenary 2**: Language for Sciences **AST 1**: Diversity in Class **AST 2**: Conceptual Change	1:00-1:30 PM Preliminaries 1:30-2:30 Plenary 2 2:30-3:30 AST 1 3:30-4:30 AST 2 4:30-5:00 Q&A	**Plenary 2: Language for Sciences** This session focuses on the rhetorical functions, syntactic constructions, and vocabulary frequently used in scientific discourse. In reviewing the language for Science, the participants will be directed to the aspects of language that can be highlighted in the module exemplars. **AST 1: Diversity in Class** This Academic Staff Tour engages participants through a thorough discussion of how to diagnose diversity in class. The session will familiarize participants on probable ways and activities to detect diversity and heterogeneity in class. **AST 2: Conceptual Change**	**Dr. Ruth A. Alido** ESTA-Phil-PNU Team **Mr. Alfons Jayson O. Pelgone** ESTA-Phil-PNU Team **Dr. Leah Amor S. Cortez** ESTA-Project Team Moderator/Facilitator: **Dr. Crist John M. Pastor** ESTA-Phil-PNU Team

		This Academic Staff Tour engages participants through a thorough discussion of interest in science education as well as the conceptual change model. Part of the highlight of the session is the presentation of 'hooks' in teaching science which may be in the form of videos, puzzles and intriguing questions. The session is directed towards understanding how students coming from various socio-economic, cultural and language backgrounds bring with them a sense of conceptual understanding. Teacher knowledge on conceptual change allows science educators to provide engaging learning experiences to our science learners.	
Day 3: [1:00-5:00 PM] **Plenary 3:** Contextualization • Culture for Sciences • Culture Integration **AST 3**: Acquisition of Science Capital in Chemistry	1:00-1:30 PM Preliminaries 1:30-3:30 Plenary 3 3:30-4:30 AST 3 4:30-5:00 Q&A	**Plenary 3:** **Contextualization** This session leads the participants to acquire a deep understanding of the concept, background, and teaching-learning processes of contextualization. Included in the session is the development of one's epistemology of	**Dr. Zenaida Q. Reyes** ESTA-Phil-PNU Team **Dr. Crist John M. Pastor** ESTA-Phil-PNU Team Moderator/Facilitator: **Dr. Leah Amor S. Cortez** ESTA-Phil-PNU Team

		contextualization as the basis of one's praxis. **AST 3: Acquisition of Science Capital in Chemistry** This session focuses on identification of factors and drivers that encourage students to learn Chemistry, and at large, Science. The outcomes of the research article authored by Rüschenpöhler and Markic in 2019 to emphasize the role of families, peers and significant others in the development of positive attitudes and increased engagement of students to science.	
Day 4: [1:00-5:00 PM] **Plenary 4**: Indigenous Languages and proficiency in Language **AST 4**: Chemistry self-concepts: gender and culture, and the impact of chemistry self-concept on learning behavior **AST 5**: Technology Integration	1:00-1:30 PM Preliminaries 1:30-2:30 Plenary 4 2:30-3:30 AST 4 3:30-4:30 AST 5 4:30-5:00 Q&A	**Plenary 4: Indigenous Languages and proficiency in Language** This session will disseminate how technology can be used to preserve the language of the indigenous people. **AST 4: Chemistry self-concepts: gender and culture, and the impact of chemistry self-concept on learning behavior** This session focuses on students' chemistry self-concept with respect to their cultural background and gender. The session also	**Dr. Rochelle Irene G. Lucas** ESTA-Phil-DLSU Team **Dr. Arlyne C. Marasigan** ESTA-Phil-PNU Team **Mr. Ruel A. Avilla** ESTA-Project Team Moderator/Facilitator: **Dr. Ruth A. Alido** ESTA-Phil-PNU Team

		highlights the students thinking about science and scientists and the colonial portrayal of Filipinos.] AST 5: **Technology Integration** This session focuses on the nature, significance and methods of technology integration. The session also highlights some frameworks used in technology interaction inside a science classroom.	
Day 5: [1:00-5:00 PM] **Plenary 5**: Other ESTA-Country Participants Experiences AST 6: Flipped Classroom Topic 1: Orientation to Lesson Exemplar (LE) Development Workshop • Agreements for Part 2: LE Development Workshop • Groupings for Consultation and Mentoring	1:00-1:30 PM Preliminaries 1:30-2:30 Plenary 5 2:30-3:30 AST 6 3:30-4:30 Topic 1 4:30-5:00 Q&A	**Plenary 5: Other ESTA-Country Participants Experiences** This session will primarily focus on the sharing of other partner countries/universities on managing diversity and heterogeneity in science classes. AST 6: **Flipped Classroom** This session presents the theoretical underpinnings and instructional processes implemented in science teaching through flipped classroom approach (FCA). It also highlights the instructional technologies and significant implications	**Dr. Marika Kapanadze** ESTA-Georgia Team **Dr. Lydia S. Roleda** ESTA-Phil-DLSU Team **Dr. Brando C. Palomar** ESTA-Project Team Moderator/Facilitator: **Mr. Ruel A. Avilla** ESTA-Phil-PNU Team

		of FCA as utilized in science teaching based on current empirical studies. Similarly, this session provides insights on how FCA is appropriately applicable in teaching science in the context of the pandemic and post-pandemic experiences. **Topic 1: Orientation to Lesson Exemplar (LE) Development Workshop** This session aims to present the features of the instructional design of the Lesson Exemplar anchored on the developed frameworks and models. The session also intends to familiarize the participants on the implementing guidelines on how to develop Lesson Exemplars influenced by the aforementioned models, agreements, groupings and processes of consultation and mentoring.	
Day 6: [1:00-5:00 PM] **Science Educator Sharing** 1: Chemistry **Science Educator Sharing** 2: Physics **Science Educator Sharing** 3: Biology **Science Educator Sharing** 4: Environmental Science	1:00-1:30 PM Preliminaries 1:30-4:00 Insights and Experiences 4:00-5:00 Q&A	This session will primarily focus on the sharing of Science Teacher Educators on developing their courses using the framework.	Chemistry: Prof. Nelson Garcia Physics 1: Prof. Amber Dea Marie V. Peguit-Opeda Physics 2: Jayson L. De Vera

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			Biology 1: Dr. Marie Grace S. Cabansag Biology 2: Dr. Brian M. Limson Moderator/Facilitator: **Dr. Brando C. Palomar** ESTA-Phil-PNU Team
Week 2 [Asynchronous] **Lesson Exemplar Development**		**Lesson Exemplar Development** The session will focus on facilitating participants for them to be able to draft and craft their Lesson Exemplars. Informal sharing may be within and across groups and disciplines to exact the finest Lesson Exemplar for a particular science lesson or topic.	ESTA-Phil-PNU Team PNU Science Educators
Week 3 [Asynchronous] **Lesson Exemplar Peer Review**		**Lesson Exemplar Peer Review** In this session, crafted and designed Lesson Exemplars for science lessons or topics will be subjected to peer review (by fellow participants) to help the developers provide varied perspectives while peers assess their Lesson Exemplars. This session aims to provide constructive remarks for the improvement or enhancement of developed	ESTA-Phil-PNU Team PNU Science Educators

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		Lesson Exemplars and to determine alignment of designed Lesson Exemplars to the aforementioned models and frameworks.	
Week 4 [Asynchronous] **Lesson Exemplar Revision**		**Lesson Exemplar Revision** In this session, developers of Lesson Exemplars will engage in revising their products based on the comments and suggestions of their peers. This is a prerequisite to the next activity that will focus on presentation of the revised Lesson Exemplars to the ESTA-Philippines-PNU Team and critiquing of the panel of evaluators.	ESTA-Phil-PNU Team PNU Science Educators
Week 5 **Lesson Exemplar Presentation and Panel Critiquing**		**Lesson Exemplar Presentation and Panel Critiquing** In this session, crafted and designed Lesson Exemplars for science lessons or topics will be presented to the participants and experts. Critiquing will also be done to provide constructive remarks for the improvement or enhancement of presented Lesson Exemplars and to determine alignment of designed Lesson Exemplars to the aforementioned models and frameworks.	ESTA-Phil-PNU Team PNU Science Educators