



Regional Advisory No. 50, s. 2022
July 18, 2022

In compliance with DepEd Order (DO) No. 8, s. 2001,
this advisory is issued not for endorsement per DO 28, s. 2001,
but only for information of DepEd officials,
personnel/staff, as well as the concerned public.
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**TRAINING WORKSHOP IN INCLUSIVE SCIENCE EDUCATION FOR LINGUISTIC
AND CULTURAL DIVERSITY**

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 on July 19-22, 25, 27, 2022 for synchronous activities, and July 28-August 15, 2022 for the asynchronous activities.

The activity aims to help educators 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.

In view of the foregoing, Science teachers in the region are invited to join the free training program via Zoom. The matrix of schedules is enclosed in this Regional Advisory. All Education Program Supervisors and Coordinators in Science in the region are requested to disseminate the information to the field. Teachers who are interested to join are requested to notify their EPSs so that the EPSs can send the number of interested and committed teachers to the Regional Science Coordinator. The number of Zoom participants is limited only to 500.

CLM/khzs
07/18/2022



2022-07-09255



Educating Science Teachers for All

Philippine Normal University
The National Center for Teacher Education

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

Sub-Topics and Time Allotment for every topic (in hours)	Program Flow
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
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

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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
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
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
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
Week 2 [Asynchronous] Lesson Exemplar Development	
Week 3 [Asynchronous] Lesson Exemplar Peer Review	

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Week 4 [Asynchronous] Lesson Exemplar Revision	
Week 5 Lesson Exemplar Presentation and Panel Critiquing	

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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

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		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

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		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

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		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

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		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 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

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