



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF BATAAN

JUL 06 2022

DIVISION MEMORANDUM

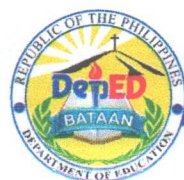
No. 258, s. 2022

**VIRTUAL PROFESSIONAL DEVELOPMENT WORKSHOP FOR SCIENCE
TEACHERS SPONSORED BY PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

To: Assistant Schools Division Superintendent
Chiefs of Division, CID and SGOD
Education Program Supervisors
Public Schools District Supervisors
Public Secondary School Principals
All Others Concerned

1. This Office announces the conduct of Virtual Professional Development Workshop for Science Teachers sponsored by the Department of Science and Technology-Science Education Institute (DOST-SEI) for secondary school science teachers, from August 8 to 19, 2022, in synchronous and asynchronous sessions.
2. The 40-hour professional development training course/workshop aims to equip teachers with the ability to bring nuclear science into their classrooms and confidently teach their students about the peaceful and beneficial uses of the atom's energy.
3. The participants to this activity are all Grades 11 and 12 science teachers and junior high school science teachers handling special science classes. All participants are required to apply through the Philippine Nuclear Research Institute Online Course Application Portal (<https://services.pnri.dost.gov.ph/portal/ApplyUser>) on or before July 22, 2022.
4. Attached are the Memorandum DM-CI-2022-241 and Course Information, for reference and other details.
5. For any clarification, please contact the Nuclear Training Center at telephone no. (02) 8929-6011 to 10 loc. 236 or by email at ntc@pnri.dost.gov.ph or nstep@pnri.dost.gov.ph.

[Handwritten signature]




"We Mould Heroes"





Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF BATAAN

6. Immediate and wide dissemination of this Memorandum is desired.


ROLAND M. FRONDA, EdD, CESO VI
Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent

Encls.: As stated

Reference:

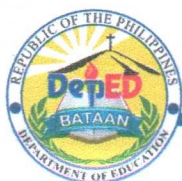
Regional Memorandum No. 353, s. 2022

Memorandum DM-CI-2022-241
dated June 21, 2022

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

SCIENCE TEACHERS
TRAINING/WORKSHOP
VIRTUAL PROFESSIONAL DEVELOPMENT

CI7/ci28
July 5, 2022



"We Mould Heroes"

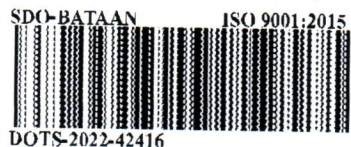
Address: Bataan Provincial Capitol Compound, Balanga City 2100 Bataan | **Telephone / Fax:** (047) 237-2102
Email Address: bataan@deped.gov.ph | **Website:** www.depedbataan.com | **Facebook Page:** www.facebook.com/DepEdBataan



CSC PRIME-HRM BRONZE AWARD
CSC Resolution No. 2001100



Republic of the Philippines
Department of Education
REGION III-CENTRAL LUZON



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BY: *f*

REGIONAL MEMORANDUM

No. 353, s. 2022

**VIRTUAL PROFESSIONAL DEVELOPMENT WORKSHOP FOR SCIENCE
TEACHERS SPONSORED BY PHILIPPINE NUCLEAR
RESEARCH INSTITUTE**

To: Schools Division Superintendents

1. The Department of Science and Technology-Science Education Institute (DOST-SEI) is organizing the Curie's Class, a virtual professional development training course/workshop for secondary school science teachers, from August 8 to 19, 2022, in synchronous and asynchronous sessions.
2. The 40-hour professional development training course/workshop aims to equip teachers with the ability to bring nuclear science into their classrooms and confidently teach their students about the peaceful and beneficial uses of the atom's energy.
3. The workshop is open to science teachers, with a preference for Grades 11 and 12 science teachers and Junior High School science teachers handling special science classes. The participation of all Grades 11 and 12 science teachers is required.
4. **All Grades 11 and 12 science teachers and junior high school science teachers handling special science classes are required to apply** through the Philippine Nuclear Research Institute Online Course Application Portal (<https://services.pnri.dost.gov.ph/portal/ApplyUser>) on or before July 22, 2022.
5. Attached are the Memorandum DM-CI-2022-241 and Course Information Guidelines, for reference.
6. For any clarification, please contact the Nuclear Training Center at telephone no. (02) 8929-6011 to 19 loc. 236 or by email at ntc@pnri.dost.gov.ph or nstep@pnri.dost.gov.ph.
7. Immediate and wide dissemination of this memorandum is desired.

M
MAY B. ECLAR, PhD, CESO III
ef
Regional Director



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Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
Telephone Number: (045) 598-8580 to 89 • Email Address: region3@deped.gov.ph





Republic of the Philippines
Department of Education
REGION III-CENTRAL LUZON

Encls.: As stated
Reference: DepEd Memorandum-CI-2022-241

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

**SCIENCE TEACHERS
TRAINING/WORKSHOP
VIRTUAL PROFESSIONAL DEVELOPMENT**

Clmd10
June 27, 2022



Address: Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
Telephone Number: (045) 598-8580 to 89 • **Email Address:** region3@deped.gov.ph



Certificate No. AJA17-0077



Republic of the Philippines

Department of Education

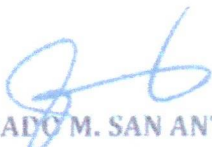
OFFICE OF THE UNDERSECRETARY FOR CURRICULUM AND INSTRUCTION

BCD-CSDD-2022-I-8012

MEMORANDUM

DM-CI-2022-241

TO : MINISTER, MBHTE-BARMM
REGIONAL DIRECTORS

FROM : 
DIOSDADO M. SAN ANTONIO
Undersecretary

SUBJECT : Virtual Professional Development Workshop for Science Teachers Sponsored by PNRI

DATE : June 21, 2022

The Memorandum of Understanding signed in May 2018 between the Department of Education and the Department of Science and Technology- Philippine Nuclear Research Institute (PNRI) aims to expand and sustain nuclear science and technology education among secondary school teachers and students of the country.

The PNRI is organizing the **Curie's Class**, a virtual professional development training course/workshop for secondary school science teachers, on August 8-19, 2022. The event is one of the activities under PNRI's Nuclear Science and Technology Education Program and the IAEA technical cooperation project RAS0091 "Supporting Nuclear Science and Technology Education at the Secondary and Tertiary Level".

The Curie's class is a 40 - hour professional development training course/workshop for secondary school science teachers. It aims to equip teachers with the ability to bring nuclear science into their classrooms and confidently teach their students about the peaceful and beneficial uses of the atom's energy. This workshop is open to science teachers, with preference to Grade 11 and 12 science teachers and Junior High School science teachers handling special science classes. The workshop will run for 2 weeks with a total of 8 sessions. Each session is designed for a 4-hour engagement with the course materials. The sessions will be rendered as a combination of pre-recorded (asynchronous) and live (synchronous) lectures.

Interested teachers are encouraged to apply through the PNRI Online Course Application Portal (<https://services.pnri.dost.gov.ph/portal/Apply/User>). Deadline for application is **July 22, 2022**.

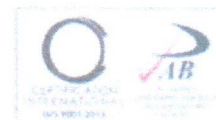
For any clarification, please contact the Nuclear Training Center at telephone no. (02) 8929-6011 to 19 loc. 236 or by email at ntc@pnri.dost.gov.ph or nstep@pnri.dost.gov.ph.

Attached please find the details of the professional development workshop.

For immediate dissemination.



Republic of the Philippines
Department of Science and Technology



PHILIPPINE NUCLEAR RESEARCH INSTITUTE

June 13, 2022

DR. WILFREDO E. CABRAL

Regional Director

Department of Education – National Capital Region

Misamis St., Bago Bantay, Quezon City

THRU: **MS. MICAH G. PACHECO**

Regional Science Supervisor and Focal Person for NST Program (DepEd NCR)

SUBJECT: "Curie's Class: Nuclear Science for High School Teachers" to be held on August 8 – 19, 2022

Dear Dr. Cabral:

We are pleased to inform you that the Philippine Nuclear Research Institute is organizing the above virtual training course/workshop on August 8 – 19, 2022. The event is one of the activities under PNRI's Nuclear Science and Technology Education Program and the IAEA technical cooperation project RAS0091 "Supporting Nuclear Science and Technology Education at the Secondary and Tertiary Level".

Curie's class is a 40 – hour professional development training course/workshop for secondary school science teachers. It aims to equip teachers with the ability to bring nuclear science into their classrooms and confidently teach their students about the peaceful and beneficial uses of the atom's energy. This workshop is open to science and technology teachers, with preference to Grade 11 and 12 science teachers and Junior High School science teachers handling special science classes. The workshop will run for 2 weeks, with 8 sessions (including the opening and closing programs). Each session is designed for a 4-hour engagement with the course materials. The sessions will be rendered as a combination of pre-recorded (asynchronous) and live (synchronous) lectures.

It would be appreciated if your office could endorse the event to the teachers in DepEd-NCR. The description, contents, and the list of requirements are provided in the attached information bulletin for your immediate reference.

Candidates are encouraged to apply through the PNRI Online Course Application Portal (<https://services.pnri.dost.gov.ph/portal/ApplyUser>). Deadline for applications is **July 22, 2022**.

For any clarification, your office may reach us through the Nuclear Training Center with telephone no. (02) 929-6011 to 19 loc. 236. or by email at ntc@pnri.dost.gov.ph or nstep@pnri.dost.gov.ph.

Thank you very much!

Very truly yours,

CARLO A. ARCILLA, PhD
Director

Address: Commonwealth Avenue, Diliman, Quezon City
PO Box 213 UP Quezon City | PO Box 932 Manila | PO Box 1314 Central, Quezon City
Telephone (632) 929-60-10 to 19 | Fax (632) 920-16-46



Course Title:	CURIE'S CLASS: NUCLEAR SCIENCE FOR HIGH SCHOOL TEACHERS
Date and Duration	August 8 – 19, 2022 (40 hours spread in two weeks)
Course Description	Curie's class is a professional development training course/workshop for secondary school science teachers. It aims to equip teachers with the ability to bring nuclear science into their classrooms and confidently teach their students about the peaceful and beneficial uses of the atom's energy.
Course Outcomes and Objectives	<p>The main outcome of the course is to have participants apply tools and strategies for teaching nuclear science concepts in their classrooms.</p> <p>At the end of the course, participants are expected to</p> <ol style="list-style-type: none">1. Develop an understanding of the nature of radiation and radioactivity and the peaceful and beneficial uses of the atom's energy2. Demonstrate understanding of the statistical nature of radiation phenomena by collecting, processing, and reporting experimental data3. Effectively use various tools and models to teach nuclear science
Participation:	This course is open to science and technology teachers, with preference to Grade 11 and 12 science teachers or those who are handling special science classes.
Application Procedure:	<p>Candidates wishing to apply for this course should follow the steps below:</p> <ol style="list-style-type: none">1. Prepare electronic copies of the following supporting documents:<ul style="list-style-type: none">• Recommendation/Endorsement letter from the university, institution, or company where the applicant is employed. Kindly address it to Dr. Carlo Arcilla, PNRI Director.• A recent 1x1 ID photo of the applicant2. Access the DOST-PNRI Online Course Application Portal (https://services.pnri.dost.gov.ph/portal/ApplyUser). Fill out application form completely and submit. Any issues/problems related to the Application Portal can be addressed to mis@pnri.dost.gov.ph.3. Closing date for applications is July 22, 2022 (Friday) <p>Successful applicants will be notified by email 3 – 5 working days after the closing date. Due to the volume of applications the center receives, no notification will be sent to applicants who will not be accepted to the training course. For more details on how to apply: https://bit.ly/PNRI-Course-Application.</p>
Administrative Arrangements:	<p>Participation to the course is free of charge. However, the participants should cover all expenses (e.g., web camera, headset, software, computer, Internet connection, studio rental, etc.) necessary to participate in the online course. In addition, the organizers do not provide the participants with any auxiliary devices (e.g., CD, USB flash drive, etc.). It is clearly understood that each organization, in recommending/endorsing the participants, undertakes the responsibility for such coverage including any special arrangements related to the participant's work schedule/load to ensure the participants full participation and successful completion of the course.</p> <p>It is recommended that participants prepare a place (e.g. office, house, etc.) for the online course, including a web camera, headset, software, computer, Internet connection, etc.</p>



Nature and Scope of the Course:

The training course/workshop will run for 2 weeks, with 8 sessions (including the opening and closing programs). Each session is designed for a 4-hour engagement with the course materials. The sessions will be rendered as a combination of pre-recorded (asynchronous) and live (synchronous) lectures. The course will be facilitated through an online learning management system.

For the pre-recorded sessions, a dedicated time for interaction of participants with the course lecturers/facilitators (Q&A Sessions) will be scheduled from 11 AM – 12 Noon for topics that are scheduled in the morning and 3 PM – 4 PM for topics that are scheduled in the afternoon. All Live sessions will include Q&A sessions right after the presentation. This will be facilitated through the LMS's conference feature such as Zoom, MS Teams, or Google Meet. All live sessions will be recorded and will be made available to participants for the duration of the training course. Alternative activities will be conducted in place of hands-on exercises or experiments.

Activities used for instruction and assessment of learning include the following: interactive lectures, exercises, hands-on-activities, readings, discussions, reflections, and examinations.

This is a Pass/Fail course. Participants need to complete all required activities and earn a final grade of at least 50% to receive a certificate of completion.

Topics to be Covered:




1. Structure of the Atom
2. Radiation and Radioactivity
3. Nuclear Transformations
4. Radioactivity and the Environment
5. Interaction of Radiation with Matter
6. Fission, Fusion, and Nuclear Reactors
7. Risk and Safety of Radioactive Materials
8. Applications of nuclear science in agriculture, health and medicine, energy, industry, and other fields

Activities/ Exercises/ Experiments:

1. The Nuclide Chart
2. Estimating Annual Dose
3. Background Radiation Measurements (using meters available in the PNRI classroom kit)
4. Half-life of a Beer/Soda Foam
5. Cloud Chamber Experiment
6. Time, Distance and Shielding Experiments
7. Radiosensitivity Experiments
8. Tour of PNRI facilities (Virtual)
9. Technical visit to other nuclear facilities (Virtual)

Commonwealth Avenue, Diliman, Quezon City
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Fax (632) 8920-16-46

CONTACT US

-  /PNRIDOST
-  ntc@pnri.dost.gov.ph
-  PNRI.DOST.GOV.PH

TO APPLY FOR A COURSE, VISIT:

<https://services.pnri.dost.gov.ph/portal>