



Republic of the Philippines
Department of Education
Region III
SCHOOLS DIVISION OF BULACAN

DIVISION MEMORANDUM

No. 464, s. 2026

**PARTICIPATION IN TEACH MINDS 2.0: AI LITERACY COMPETENCE
DEVELOPMENT FOR MEANINGFUL AND CONTEXTUAL
INTEGRATION IN STEM EDUCATION**

To: Assistant Schools Division Superintendents
Division Chiefs
Public Schools District Supervisors
Concerned Public Secondary School Heads
Concerned Science Head Teachers

1. The Bulacan State University – College of Professional Teacher Education, through its Bachelor of Secondary Education (BSEd) Sciences Department, will conduct its extension project titled “TEACH MINDS 2.0: AI Literacy Competence Development for Meaningful and Contextual Integration in STEM Education” on October 29-30, 2026 at Bulacan State University, Malolos City.
2. The activity aims to strengthen the AI literacy, pedagogical leadership, and instructional leadership capacities of Science teachers for the meaningful, responsible, inclusive, and contextually appropriate integration of artificial intelligence in STEM teaching and learning. It will also provide opportunities to design AI-integrated STEM instruction aligned with the Revised K to 12 Science Curriculum and to plan school-based professional learning on responsible AI integration.
3. In this connection, the thirty (30) Science Head Teachers and Master Teachers listed in Enclosure No. 1 are selected to participate in the two-day face-to-face activity. As instructional leaders, they are expected to share and contextualize the knowledge, competencies, strategies, and resources gained from the program with science teachers in their respective schools.
4. Major program outputs shall include a final AI-integrated STEM lesson exemplar and a school-based Learning Action Cell (LAC) Action Plan on Meaningful and Responsible AI Integration in STEM Education. The LAC Action Plan shall serve as a roadmap for cascading the learning from TEACH MINDS 2.0 at the school level.
5. All school heads are reminded of the DepEd Order No. 9, S. 2005, “Instituting Measures to Increase Engaged Time on Task and Ensuring Compliance Therewith.” Classes must remain uninterrupted, and there must be substitutes for those teachers included in this activity.
6. Bulacan State University shall provide snacks and lunch to the participants during the two-day face-to-face program. Transportation expenses shall be charged to local or school MOOE fund, subject to the usual accounting and auditing procedures. This Memo serves as the Travel Authority of the participants.
7. Immediate and wide dissemination of this Memorandum is earnestly desired.


CECILIA E. VALDERAMA, PhD, CESO VI
Schools Division Superintendent

Encls.: As stated

Reference: Letter from Bulacan State University dated September 30, 2026



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Enclosure No. 1 to Division Memorandum No. *444*, s. 2026

**LIST OF PARTICIPANTS TO THE TEACH MINDS 2.0: AI Literacy
Competence Development for Meaningful and Contextual
Integration in STEM Education**

October 29-30, 2026 | Bulacan State University, Malolos City

No.	School	District	Participant	Designation
1	Pres. Diosdado P. Macapagal MHS	Angat District	Gerlie De Leon	Teacher III/OIC
2	Balagtas National Agricultural High School	Balagtas District	Gabbi C. Antonio	Master Teacher I/OIC
3	Bunsuran National High School	Pandi South District	Conrad A. Populi	Teacher III
4	Aguinaldo J. Santos National High School	Bustos District	Elenita V. Tucio	Master Teacher I
5	Alexis G. Santos National High School	Bustos District	Marites C. Montallana	Teacher III
6	Calumpit National High School	Calumpit South District	Roselle S. Malicdem	Head Teacher III
7	Laura De Leon Halili High School	DRT District	Perlita Adriano	Teacher III/OIC
8	Prenza National High School	Marilao North District	Leni C. Castillo	Master Teacher II
9	A.F.G. Bernardino Memorial Trade School	Marilao South District	Flordeliza R. Hilario	Head Teacher III
10	Norzagaray National High School	Norzagaray West District	Wilma I. Esquivel	Head Teacher III
11	Obando National High School	Obando District	Mina Lituco	Head Teacher III
12	Virginia Ramirez-Cruz National High School	Pandi North District	Roy Ivan M. Reyes	Teacher III
13	Bunsuran National High School	Pandi South District	Jennelyn Fajardo	Head Teacher III
14	San Roque National High School	Paombong District	Esmeralda P. Garcia	Master Teacher I
15	Dr. Felipe De Jesus National High School	Plaridel District	Vanessa B. Littaua	Master Teacher I
16	Bajet-Castillo High School	Pulilan District	Marianne F. Lopez	Master Teacher II
17	San Ildefonso National High School	San Ildefonso North District	Melody Anne R. Duran	Head Teacher III
18	San Miguel National High School	San Miguel South District	Ivie Joy B. Badilla	Teacher III
19	Maronquillo National High School	San Rafael East District	Angelica DC. Libunao	Teacher III
20	Carlos F. Gonzales High School	San Rafael West District	Florida P. Tolentino	Head Teacher III
21	Fortunato F. Halili National Agricultural School	Santa Maria Central District	Gladys B. Reyes	Head Teacher VI
22	Parada National High School	Santa Maria East District	Lady Maru N. Vergara	Head Teacher III
23	Sta. Maria National High School	Santa Maria East District	Mervin G. Lucas	Head Teacher III



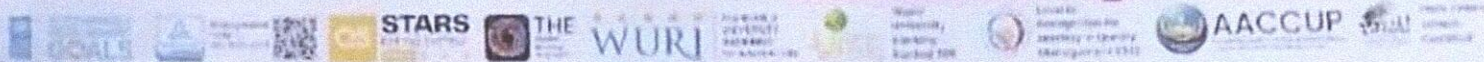
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24	Pulong Buhangin National High School	Santa Maria West District	Leah P. Dela Cruz	Head Teacher VI
25	San Miguel National High School	San Miguel South District	Jayson B. Eugelio, PhD	Master Teacher I
26	Dr. Pablito V. Mendoza, Sr. High School	Bustos District	Rovelyn S. Guerrero	Head Teacher III
27	Carlos F. Gonzales High School	San Rafael West District	Djemnahlie C. Serrano	Teacher III
28	Prenza National High School	Marilao North District	Geraldine A. Peñaflorida	Teacher III
29	A.F.G. Bernardino Memorial Trade School	Marilao South District	Espy S. Balbuena	Master Teacher I
30	Bajet-Castillo High School	Pulilan District	Jaehadd Lou Untalan	Teacher III



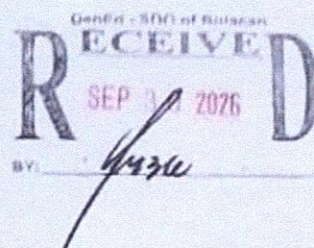
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30 September 2026

CECILIA E. VALDERAMA, PhD, CESO VI
Schools Division Superintendent
Schools Division of Bulacan
Department of Education



THRU:

DR. MARINELLA T. PENGSON
Education Program Supervisor in Science
Schools Division of Bulacan

Dear Dr. Valderama,

Greetings of teacher excellence!

The **Bulacan State University – College of Professional Teacher Education**, through its Bachelor of Secondary Education (BSEd) Sciences Department, will conduct its extension project titled **"TEACH MINDS 2.0: AI Literacy Competence Development for Meaningful and Contextual Integration in STEM Education"** on **29–30 October 2026** at **Bulacan State University, Malolos City**.

TEACH MINDS 2.0 is a professional development initiative designed to strengthen the capacity of science education leaders to guide the meaningful, responsible, and contextually appropriate integration of artificial intelligence (AI) in STEM teaching and learning. Recognizing the increasingly important role of school-level instructional leadership in navigating emerging technologies, the program seeks to equip science teachers not only with AI literacy and pedagogical knowledge but also with the leadership capacity to support, mentor, and guide science teachers in their respective schools.

Specifically, the program aims to:

1. strengthen science teachers' AI literacy and pedagogical leadership by deepening their understanding of the SCI-TEACH-AI framework and evidence-informed approaches to integrating AI into inquiry-based, metacognitive, and student-centered STEM learning;
2. develop their capacity to design and guide the implementation of AI-integrated STEM instruction through the collaborative development of context-sensitive lesson exemplars aligned with the Revised K to 12 Science Curriculum and grounded in sound pedagogical principles;
3. promote responsible, inclusive, and ethical leadership in AI integration by strengthening awareness of data privacy, algorithmic bias, academic integrity, learner agency, equitable access, and other emerging considerations associated with the use of AI in education, and
4. strengthen their capacity to lead school-based professional learning through the development of a Learning Action Cell (LAC) Action Plan that translates the knowledge.

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Page 1 of 3

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strategies, and resources gained from the program into structured capacity-building activities for science teachers in their respective schools.

In this regard, we respectfully seek the assistance of your good office, through **Dr. Marinella T. Pengson, Education Program Supervisor in Science**, in nominating **thirty (30) Science Head Teachers from the Schools Division of Bulacan** to participate in the program.

As instructional leaders in their respective schools, Science Head Teachers play a vital role in shaping teaching practices, mentoring teachers, facilitating professional learning, and supporting the implementation of curricular and pedagogical innovations. Their participation in **TEACH MINDS 2.0** is therefore envisioned to create a **multiplier effect**, enabling the knowledge, competencies, and resources developed through the program to be shared and contextualized within their respective schools.

As major outputs of the two-day program, participants will collaboratively develop an **AI-integrated STEM lesson exemplar** and formulate a **school-based Learning Action Cell (LAC) Action Plan on Meaningful and Responsible AI Integration in STEM Education**. The lesson exemplar will provide a concrete and classroom-ready model of how AI can be purposefully integrated into science and STEM instruction, while the LAC Action Plan will serve as a roadmap for cascading the knowledge, strategies, and practices gained from the program to science teachers in their respective schools.

Through interactive discussions, hands-on AI activities, collaborative lesson development, case analyses, reflective activities, and action-planning sessions, the Science Head Teachers will have opportunities to examine both the pedagogical possibilities and the ethical considerations surrounding AI use in education. These experiences are intended to prepare them not only to use AI meaningfully in instructional contexts but also to provide informed leadership as their schools navigate its growing role in teaching and learning.

To support their participation, **Bulacan State University will provide snacks and lunch during the two-day face-to-face program**. Through this initiative, we hope to further strengthen the partnership between **Bulacan State University and the Schools Division of Bulacan** in developing science education leaders who can responsibly guide their schools in responding to the opportunities and challenges presented by artificial intelligence. More importantly, **TEACH MINDS 2.0** seeks to establish a sustainable pathway from **capacity building, to instructional application, to school-based knowledge sharing**, thereby extending the benefits of the program to a broader community of science educators.

We sincerely look forward to your favorable response and continued partnership in this undertaking. Should you have any questions or require additional information, please feel free to contact the undersigned through ronilo.antonio@bulsu.edu.ph or **0915 033 3576**.

Thank you very much for your kind consideration and unwavering support for initiatives that advance instructional leadership, teacher professional development, innovation, and excellence in science and STEM education.

Truly yours,

RONILO P. ANTONIO, Ph.D.

Associate Professor & Lead Proponent, **TEACH MINDS 2.0**
Head, Research Program Unit
Research and Innovation Office

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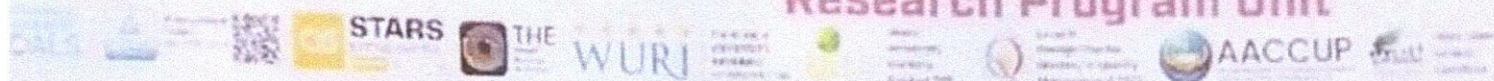
Page 2

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**TEACH MINDS 2.0: AI Literacy Competence Development for Meaningful and Contextual
Integration in STEM Education**
29–30 October 2026 at Bulacan State University, Malolos City

Time	Session / Activity	Key Content / Focus	Expected Output
DAY 1 – 29 October 2026	FOUNDATIONS AND PRACTICE OF MEANINGFUL AI INTEGRATION		
8:00–8:30 AM	Registration and Pre-Program Assessment	Registration and baseline assessment of AI literacy, pedagogical competence, and responsible AI practices	Baseline data
8:30–9:00 AM	Opening Program and Program Overview	Rationale, objectives, expected outputs, and overview of TEACH MINDS 2.0	Shared understanding of program goals
9:00–10:30 AM	Session 1: AI Literacy and the SCI-TEACH-AI Framework for Meaningful STEM Education	Foundations of AI and generative AI; capabilities and limitations; opportunities in STEM education; SCI-TEACH-AI framework; inquiry, metacognition, and student-centered learning; meaningful and contextual AI integration	Foundational understanding of AI and pedagogically grounded AI integration
10:30–10:45 AM	Health Break		
10:45–11:45 AM	Session 2: Responsible, Ethical, and Inclusive AI in STEM Education	Data privacy; academic integrity; AI hallucinations; verification of AI-generated information; algorithmic bias; learner agency; accessibility and equitable access	Responsible AI principles for STEM education
11:45 AM–12:00 NN	Orientation to the Hands-On AI Sessions	Introduction to the afternoon activities, tools, and workshop expectations	Participants prepared for hands-on activities

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Page 2 of 2

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12:00–1:00 PM	Lunch Break		
1:00–2:30 PM	Session 3: Exploring AI Tools for STEM Teaching and Learning: A Hands-On Session	Guided exploration of selected AI tools for lesson planning, scientific inquiry, content development, visualization, assessment, feedback, and differentiated learning	Hands-on experience with selected AI tools
2:30–3:15 PM	Session 4: Prompting for Pedagogy: Designing Effective AI Interactions	Principles of effective prompting; contextual and iterative prompting; prompts for inquiry, assessment, feedback, differentiation, and metacognition	Contextualized prompts for STEM teaching
3:15–3:30 PM	Health Break		
3:30–5:00 PM	Workshop 1: Designing an AI- Integrated STEM Lesson Exemplar	Collaborative development of lesson exemplars aligned with the Revised K to 12 Science Curriculum, SCI-TEACH-AI framework, and responsible AI principles	Draft AI-Integrated STEM Lesson Exemplar
DAY 2 – 30 October 2026	FROM AI-INTEGRATED INSTRUCTION TO INSTRUCTIONAL LEADERSHIP		
8:00–8:15 AM	Recap and Priming Activity	Review of key Day 1 learning and preparation for Day 2	Consolidated learning
8:15–9:00 AM	Session 5: Designing Meaningful AI- Integrated STEM Learning Experiences	Alignment of learning competencies, outcomes, inquiry, AI-supported activities, assessment, metacognition, and responsible AI use	Quality criteria for AI-integrated STEM lessons
9:00–10:15 AM	Workshop 2: Lesson Exemplar Refinement and Peer Review	Peer review, contextualization, and revision using curricular,	Refined lesson exemplar

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Page 4 of 5

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		pedagogical, and responsible AI criteria	
10:15–10:30 AM	Health Break		
10:30 AM–12:00 NN	Presentation and Critiquing of AI-Integrated STEM Lesson Exemplars	Presentation of lesson exemplars; peer and facilitator feedback	Final AI-Integrated STEM Lesson Exemplar
12:00–1:00 PM	Lunch Break		
1:00–2:00 PM	Session 6: Science Head Teachers as Leaders of Meaningful AI Integration	Instructional leadership in the AI era; mentoring and coaching science teachers; facilitating professional learning; Learning Action Cells as a mechanism for cascading meaningful and responsible AI integration	School-level instructional leadership framework
2:00–3:00 PM	Workshop 3: Developing the School-Based LAC Action Plan	Identification of school needs; LAC objectives and activities; timeline; responsibilities; resources; expected outputs; monitoring and evaluation	Draft School-Based LAC Action Plan
3:00–3:15 PM	Health Break		
3:15–4:15 PM	Presentation and Peer Review of LAC Action Plans	Presentation, feedback, contextualization, and refinement	Final School-Based LAC Action Plan
4:15–4:30 PM	Commitment Setting: From Training to School-Level Action	Commitments for implementing and cascading TEACH MINDS 2.0 through school-based LAC	Implementation commitment
4:30–4:45 PM	Post-Program Assessment and Evaluation	Post-assessment and program evaluation	Post-program data and feedback
4:45–5:00 PM	Closing Program	Awarding of certificates and closing messages	Program completion

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Page 5 of 5

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