



Republic of the Philippines  
**Department of Education**  
Region V  
**SCHOOLS DIVISION OF SORSOGON**

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**October 1, 2024**

**DIVISION MEMORANDUM**  
No. 226 s. 2024

**TRAINING ON MATHEMATICS INVESTIGATION AND MODELLING (MIM)**

**TO:** Asst. Schools Division Superintendent  
Chief Education Supervisors  
Education Program Supervisors  
Public Schools District Supervisors/OIC-PSDSs  
School Heads of STE/STEM Implementing Schools  
All Others Concerned

1. In support to DepEd MATATAG Agenda: Make the Curriculum relevant to produce competent and job-ready, active and responsible citizens and Give support to teachers to teach better, this Division through its Division Change Plan dubbed as "THE VILLAGE, INC., has envisioned quality, relevant and holistic education to all Sorsoganon learners.
2. Along with this, and in compliance with the UNILAB Foundation-CISTEM Nexus Program Cohort 1 Learning Engagement Action Plan (LEAP), this Office through the Curriculum Implementation Division (CID) will spearhead the conduct of Division Training on Mathematics Investigation and Modelling (MIM) on October 10,11 and 18, 2024 via virtual platform and on December 5 & 6, 2024 in the Math Congress at Ann's Garden, Juban, Sorsogon.
3. The three-day virtual training and Math Congress aim to:
  - a. familiarize the participants with the requisite mathematical skills and concepts in MIM;
  - b. Enhance the participant's capabilities to teach problem solving, and through problem solving;
  - c. Explore the possibility of providing opportunities for the use of MIM in Project-Based Learning;
  - d. expose the participants to the stages and procedures in the conduct of MIM;
  - e. conduct initial MIM activities;
  - f. learn the methods in assessing MI outputs.



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- g. gain expertise in coaching STEM Research/Social Research students who would pursue Research endeavors involving Mathematical Investigations/Modelling; and
  - h. develop lesson exemplars using investigations.
4. The expected participants in this activity are the Mathematics teachers in the fifteen (15) Secondary Schools offering STE and STEM programs. They are expected to accomplish the online registration via Google link to be provided in a separate advisory.
5. The list of participants and the training matrix are found in the attached enclosures.
6. Expenses relative to the conduct of this activity shall be charged to local funds/MOOE subject to usual accounting and auditing rules and regulations.
7. Widest dissemination of and immediate compliance with this Memorandum are enjoined.

  
**WILLIAM E. GANDO, CESO VI**  
Schools Division Superintendent





Republic of the Philippines  
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REGION V - BICOL

Enclosure No. 1 to Division Memorandum No. 226 s. 2024

**TRAINING ON MATHEMATICS INVESTIGATION AND MODELLING (MIM)**  
**October 10,11, and 18, 2024- Via Virtual Platform)**  
**December 5-6, 2024- Anns Garden, Juban, Sorsogon**

**LIST OF PARTICIPANTS**

No.	School/Office	STE Teachers	STEM Teacher	Total
1	Barcelona NCHS	3	0	3
2	Bulan NHS	3	1	4
3	Bulusan NHS	2	1	3
4	Casiguran TVS	3	1	4
5	Cumadcad NHS	3	1	4
6	Donsol NCHS	3	1	4
7	Gallanosa NHS	3	1	4
8	Gubat NHS	3	1	4
9	Juban NHS	2	1	3
10	Magallanes NHS	3	1	4
11	Matnog NHS	3	1	4
12	Pilar NCHS	3	1	4
13	Pto. Diaz NHS	2	1	3
14	Salvacion NHS	2	1	3
15	Sta. Magdalena NHS	2	1	3
	<b>Facilitators/TWG</b> 1. Dr. Myrna B. Libutaque 2. Dr. Garry Cachuela 3. Jerry G. Firmanes 4. Michelle H. Guadamor 5. Rycel G. Panesa 6. Louiever Melencion 7. Crisfe Gamit 8. Jennifer De Castro 9. John Dave Boribor 10. Jeremy Gacosta/Dodge Lagman 11. Gilbert Ian Z. Apostol			<b>11</b>
	<b>Total</b>	<b>40</b>	<b>14</b>	<b>65</b>



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Enclosure No. 2 to Division Memorandum No. 126 S. 2024

**Schedule of Activities**

<b>Day</b>	<b>Time</b>	<b>Activity</b>	<b>Topic/Relevant Details</b>
<b>Day 1</b> <b>Oct</b> <b>10,</b> <b>2024</b>	8:00-8:30	Registration	
	8:30-9:15	Opening Program	<ul style="list-style-type: none"><li>• National Anthem</li><li>• Prayer</li><li>• Welcome Remarks</li><li>• Statement of Purpose</li></ul>
	9:15-12:00	Lecture/Discussion/Workshop / Open Forum <b>Dr. Myrna B. Libutague</b>	<ul style="list-style-type: none"><li>• Mathematics Investigation in the Matatag Curriculum for Mathematics</li><li>• Nature and Purpose of Mathematical Investigation</li><li>• Project Based Learning and MIM</li><li>• Stages in the Conduct of Mathematical Investigation</li><li>• Pattern Finding as a problem-solving strategy and other requisite skills in MI;</li><li>• Finite Difference Chart and other alternative methods/approaches</li></ul>



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	12:00-1:00	<b>LUNCH</b>	
	1:00 – 2:30	Lecture/ Demonstration/works hop Conduct of Initial Investigations <b>Dr. Myrna B. Libutague</b>	<ul style="list-style-type: none"> <li>Formulating Conjectures using mathematical Notations</li> <li>Apply the stages in the conduct of MI</li> </ul>
	2:30 – 3:30	Lecture, Workshop, Presentation <b>Dr. Garry Cachuela</b>	Methods of Proof
	3:30 – 4:00	Lecture, Workshop, Presentation <b>Dr. Garry Cachuela</b>	<ul style="list-style-type: none"> <li>Format in writing the MI Report</li> <li>Making Posters in MI</li> <li>How to assess the MI Paper</li> </ul>
	8:00-8:30		<ul style="list-style-type: none"> <li>Prayer</li> <li>Management of Learning</li> </ul>
<b>Day 2</b> <b>Oct 11,</b> <b>2024</b>	8:30-12:00	Lecture/Discussions, Workshop, Open Forum <b>Dr. Garry Cachuela</b>	<ul style="list-style-type: none"> <li>Nature and Purpose of Mathematical Modelling (MM)</li> <li>Stages in the Conduct of Mathematical Modelling (MM)</li> <li>Use of ICT Tools in MIM</li> </ul>
	1:00-2:00 <b>Session 5</b>	Lecture, presentation, Open Forum <b>Dr. Myrna Libutague</b>	<ul style="list-style-type: none"> <li>Mathematical Investigations/Modelling (MIM) in STEM Research and Social Research</li> </ul>
	2:00-3:30 <b>Session 5</b>	Lecture, Workshop, Presentation <b>Dr. Myrna B. Libutague</b>	<ul style="list-style-type: none"> <li>Format in writing the MM Report.</li> <li>Making Posters in MM</li> <li>How to assess the MM Paper</li> </ul>

	3:30-4:30 <b>Asynchronous Workshop</b>	<ul style="list-style-type: none"> <li>• Each Division selects a situation they can investigate (One mathematical and/or one real-life phenomenon).</li> <li>• Each group will select and conduct initial investigation on an open-ended real life and a mathematical situation to be presented during the Online initial presentation on October 19. <ul style="list-style-type: none"> <li>-They will be made to investigate and come up with <ol style="list-style-type: none"> <li>1) initial reports/results/findings of the investigation;</li> <li>2) power point presentation of (1)</li> <li>3) presentation of initial outputs on the 19<sup>th</sup> of October.</li> </ol> </li> </ul> </li> </ul>
Oct 12-18, 2024	<b>Asynchronous Workshop</b>	
	8:00-9:00 Polishing and preparation for the online presentation (MI)	
	9:00-11:00 *Presentation of draft outputs (MI)	
Oct 18, 2024	1:30-3:30 *Presentation of Proposed Real-life Mathematical Modelling situation and relevant components	