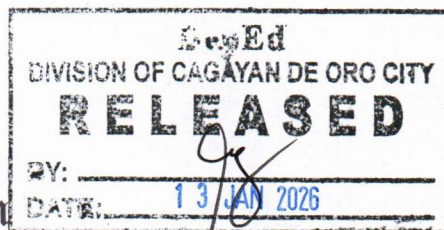




Republic of the Philippines
Department of Education
REGION X

DIVISION OF CAGAYAN DE ORO CITY

Office of the Schools Division Superintendent



12 Jan 2026

DIVISION MEMORANDUM

No. 96 s.2026

PARTICIPATION IN THE SURVEY ON "ACCEPTANCE OF ARTIFICIAL INTELLIGENCE (AI) TOOLS AMONG DEAF LEARNERS AND THEIR COMMUNITIES IN CAGAYAN DE ORO CITY"

TO: Public Schools District Supervisors
SEPS, Planning and Research Unit
SEPS, Monitoring and Evaluation
All Public and Private Elementary and Secondary Schools

1. This Office informs all public and private schools of the conduct of a citywide survey entitled **"Acceptance of Artificial Intelligence (AI) Tools among Deaf Learners and their Communities in Cagayan de Oro City."** The activity is being undertaken in coordination with the **City Education and Development Office (CEDO)** to gather baseline data on the awareness, perceptions, and readiness of the Deaf community toward the use of AI-enabled learning tools.
2. The survey targets the following respondents:
 - a. Special Needs Education (SNED) teachers and teachers handling Deaf and Hard-of-Hearing learners;
 - b. Parents or guardians of Deaf learners; and
 - c. Deaf learners themselves.
3. All concerned schools are requested to disseminate the survey to the identified respondents and encourage their active participation. The survey is accessible through the following link: <https://bit.ly/DEAFSU>.
4. The data to be gathered will be used to support the development of inclusive, accessible, and technology-enabled education programs for Deaf learners in the city.
5. For further details and the official communication, please refer to the **attached letter from the City Education and Development Office (CEDO).**



Address: Fr. William F. Masterson Ave., Upper Balulang, Cagayan de Oro City
Telephone: (088) 855-0044, (088) 855-0047, (088) 328-2142
Email Address: cagayandeoro.city@deped.gov.ph
Website: <https://depedcdo.net/>

Doc. Ref. Code		Rev	00
Effectivity		Page	Page 3 of 137

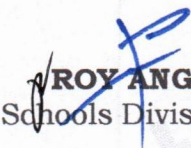


Republic of the Philippines
Department of Education
REGION X
DIVISION OF CAGAYAN DE ORO CITY

Office of the Schools Division Superintendent

6. In adherence to Equal Opportunity Principle (EOP), inclusive and fair treatment is accorded to all personnel regardless of disability, sexual orientation, gender, age, religion, and ethnicity.

7. This Office directs immediate and wide dissemination of this Memorandum.


ROY ANGELO E. GAZO
Schools Division Superintendent

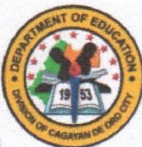
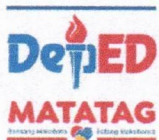
Encl.: As stated

Reference: None

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

COMMUNICATION RESEARCH
DM002-SGOD-PR-BASEN/ participation in the survey on "acceptance of artificial intelligence (ai) tools among deaf learners and their communities in cagayan de oro city"
January 12, 2026

Competence
Diligence
Outstanding Integrity



Address: Fr. William F. Masterson Ave., Upper Balulang, Cagayan de Oro City
Telephone: (088) 855-0044, (088) 855-0047, (088) 328-2142
Email Address: cagayandeoro.city@deped.gov.ph
Website: <https://depedcdo.net/>

Doc. Ref. Code		Rev	00
Effectivity		Page	Page 4 of 137



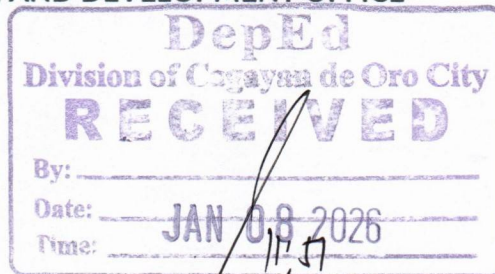
Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

08 JANUARY 2026

Dr. Roy Angelo A. Gazo

Schools Division Superintendent

Division of Cagayan de Oro City, Department of Education



Subject: Request for Support and Dissemination of Survey on Acceptance of AI Tools among Deaf Learners and their Communities

Dear Dr. Gazo,

Greetings!

The City Education and Development Office (CEDO), through its Learning Innovations and Technology Management (LITM) Division, is planning to conduct a survey on the **Acceptance of Artificial Intelligence (AI) Tools among Deaf Learners and their Communities** in Cagayan de Oro City.

In line with the Department of Education's mandate to promote inclusive, equitable, and quality education, we respectfully seek the support and assistance of your good office for this initiative, as may be deemed appropriate within your authority. Specifically, we humbly request your assistance in **forwarding and disseminating the survey to public and private schools**, particularly to **Special Needs Education (SNED) teachers or teachers handling SNED learners, parents of deaf learners, and SNED learners themselves**, to ensure the widest possible participation. The survey is accessible by scanning the QR Code below or typing this link <https://bit.ly/DEAFSU>

The results of this survey will provide valuable data that will help CEDO and its partner institutions in designing responsive, inclusive, and innovative education programs that integrate appropriate AI-supported learning tools for deaf learners.

We believe that the support of the Schools Division Office will greatly contribute to the success of this undertaking and strengthen inter-agency collaboration in advancing inclusive education in our city.

Thank you very much for your continued support and commitment to inclusive and innovative education. We look forward to your favorable consideration.

Sincerely,

RICHEL PETALCURIN-DAHAY

Acting City Education and Development Officer



CLICK SURVEY



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

**Survey on the Acceptance of Artificial Intelligence (AI) in Learning among Deaf
Learners in Cagayan de Oro City**

(Assent Form for Deaf Learners (for respondents aged under 18))

Introduction

Hello!

We want to ask if you want to help us by answering some questions about using computers and AI tools for learning and communication.

What will you do?

You will answer some easy questions that take about 10 to 15 minutes. Your answers will help the City Education and Development Office (CEDO) make better programs for Deaf students like you.

Is it okay to join?

You don't have to say yes. You can say no or stop anytime. No one will be upset if you don't want to answer.

Will anyone know your answers?

No. Your answers will be kept secret. Nobody will know who said what.

Do you want to join this survey?

- ☐ Yes, I want to join
- ☐ No, I don't want to join

Your name (optional): _____

Date: _____



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

**Survey on the Acceptance of Artificial Intelligence (AI) in Learning among Deaf
Learners in Cagayan de Oro City**

(Parental/Guardian Consent Form for respondents under 18)

Dear Parent/Guardian,

Your child is invited to participate in a study conducted by the City Education and Development Office (CEDO). The purpose of this survey is to understand how Deaf learners view and experience the use of Artificial Intelligence (AI) tools in learning and communication.

What will your child do?

Your child will answer a short survey that takes about 10–15 minutes. Questions are about their familiarity, attitudes, and comfort with AI tools (like apps that recognize sign language or provide translations).

Confidentiality

Your child's answers will be kept strictly confidential and used only for research. No names will appear in any report.

Voluntary Participation

Participation is voluntary. You or your child may withdraw at any time without any negative consequence.

Risks and Benefits

There are no expected risks. This study will help improve education programs for Deaf learners.

If you have any questions, you may contact the CEDO-LITM.

Consent Statement

I have read and understood the information above. I voluntarily allow my child to participate in this study.

Name of Child: _____

Name of Parent/Guardian: _____

Signature of Parent/Guardian: _____

Date: _____



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

AI Para sa Aksesibilidad: A Survey on the Acceptance and Awareness of AI Tools for Deaf Learners in Cagayan de Oro City

I. Background and Rationale

Artificial Intelligence (AI) has rapidly transformed education by providing new pathways for personalized learning, accessibility, and innovation. AI-powered tools can support learners with disabilities by offering adaptive technologies and individualized support systems (UNESCO, 2021).

For deaf learners, recent global discussions emphasize that while AI-driven tools—such as automated sign language recognition and text-to-sign translation—*hold potential* to enhance communication and learning, they also raise concerns about data ownership, representation, and linguistic integrity. At the 5th World Federation of the Deaf (WFD) Conference, Dr. Maartje De Meulder underscored that AI systems “learn” patterns from data but lack real understanding of language, and that deaf communities must be actively involved in shaping how sign language AI is designed and used (WFD, 2023).

Moreover, one might have reservations about using AI as an educational tool because of potential data privacy and security concerns, particularly regarding facial recognition or data storage in AI systems (European Union Agency for Fundamental Rights, 2022). While technological tools continue to advance, community sentiments toward AI—especially among vulnerable groups like deaf learners—remain underexplored.

In Cagayan de Oro City, the Learning Innovations and Technology Management (LITM) Division under the City Education and Development Office (CEDO) seeks to understand the perceptions and openness of deaf learners toward the use of AI as a learning or communication aid. This is in response to both the global trend of integrating AI in education and local discussions on its potential role in supporting Filipino Sign Language (FSL) learning and tutoring.

By conducting this survey, CEDO aims not only to assess community acceptance but also to raise awareness of how AI can complement inclusive education—highlighting its benefits, addressing misconceptions, and ensuring that technology serves as an ally for learning equity.



II. Objectives

- To assess the level of awareness of deaf learners about Artificial Intelligence (AI) and its uses in education.
- To determine the level of acceptance of AI tools as learning and communication aids among deaf learners.
- To identify perceived benefits, barriers, and concerns regarding the use of AI-based tools, particularly for Filipino Sign Language (FSL) learning.
- To promote education awareness on the use of AI and its positive contribution to inclusive and modern-day learning environments.

III. Methodology

The study will employ a quantitative survey design using a structured questionnaire distributed among members of the deaf community in Cagayan de Oro City. The questionnaire will be written in plain English.

A short introductory note will be included in the survey itself, briefly explaining what AI is and how it can support education.

Coordination with the City Social Welfare and Development (CSWD) Office will be conducted to ensure proper outreach to the deaf community and to respect established data privacy and ethical protocols, but the survey will remain under the CEDO–LITM Division.

IV. References

European Union Agency for Fundamental Rights. (2020). Getting the Future Right – Artificial Intelligence and Fundamental Rights. Luxembourg: Publications Office of the European Union.
https://fra.europa.eu/sites/default/files/fra_uploads/fra-2020-artificial-intelligence_en.pdf

UNESCO. (2021). AI and Education: Guidance for Policymakers. Paris: United Nations Educational, Scientific and Cultural Organization.
<https://unesdoc.unesco.org/ark:/48223/pf0000376709/PDF/376709eng.pdf.multi.page=1&zoom=auto,-16,398>

World Federation of the Deaf. (2025). 5th WFD Conference - Artificial Intelligence and Sign Languages - World Federation of the Deaf.
<https://wfdeaf.org/artificial-intelligence-and-sign-languages/>



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

Annex

Annex A - Consent Form and Survey Tool

Annex B - Parent Consent Form

Annex C - Assent Form

Annex D - Courtesy Letter to CSWD



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

Survey on the Acceptance and Awareness of Artificial Intelligence (AI) Tools Among Deaf Learners

Introduction

Hello! Before we begin, please take a moment to read this short consent form.

We are conducting a study to understand how Deaf learners in Cagayan de Oro City feel about using Artificial Intelligence (AI) tools for learning and communication. Your participation will help improve programs for inclusive education.

What is AI?

Artificial Intelligence (AI) refers to computer systems that can perform tasks that normally require human intelligence, such as recognizing images, understanding speech or sign language, and providing responses similar to those of a tutor or assistant.

Voluntary Participation

Your participation is completely voluntary. You may skip any question or stop at any time without any penalty.

Confidentiality

All answers will be kept confidential and used only for research purposes. No names will appear in any report.

Potential Risks and Benefits

There are no expected risks. You may benefit by learning more about how AI can support Deaf learners.

Duration

The survey will take around *10–15 minutes*.

Contact Information

If you have any questions, you may contact the City Education and Development Office (CEDO) – LITM.

Do you agree to participate in this survey?

☐ Yes

☐ No



Section A: Socio-Demographic Information

1. What is your age range?
 - ☐ Below 18 years old
 - ☐ 18–24 years old
 - ☐ 25–30 years old
 - ☐ 31–40 years old
 - ☐ 41 years old and above

2. What is your sex at birth?
 - ☐ Male
 - ☐ Female
 - ☐ Prefer not to say

3. What is your civil status?
 - ☐ Single
 - ☐ Married
 - ☐ Other: _____

4. What is your highest educational level attained?
 - ☐ Elementary
 - ☐ Junior High School
 - ☐ Senior High School
 - ☐ Vocational / Technical Course
 - ☐ College
 - ☐ Graduate Studies
 - ☐ Other: _____

5. Are you currently studying?
 - ☐ Yes
 - ☐ No
 - 5.1 If yes, what school or training center are you enrolled in?
 - ☐ Public School / Training Center
 - ☐ Private School / Training Center
 - ☐ Other: _____



Section B. Awareness of Educational Challenges, Support Systems, and AI Communication Tools

1. How aware are you of the challenges that deaf learners face in schools?
☐ Very aware
☐ Somewhat aware
☐ Slightly aware
☐ Not aware at all

2. Based on your experience, what challenges do DEAF LEARNERS commonly face?
(Choose up to two)
☐ Difficulty communicating with teachers
☐ Limited learning materials in sign language
☐ Lack of sign language-fluent teachers
☐ Feeling excluded in class
☐ I am not sure
☐ Others: _____

3. How aware are you of the challenges teachers face when teaching deaf learners?
☐ Very aware
☐ Somewhat aware
☐ Slightly aware
☐ Not aware at all

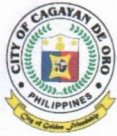
4. Based on your experience, what challenges do teachers commonly face when teaching deaf learners? (Choose up to two)
☐ Difficulty communicating with deaf learners
☐ Lack of sign language skills or training
☐ Limited teaching materials or tools
☐ Heavy workload or large class size
☐ I am not sure
☐ Others: _____

5. How aware are you of the availability of qualified Special Needs Education (SNED) teachers for deaf learners?
☐ Very aware
☐ Somewhat aware
☐ Heard about it but not sure
☐ Not aware at all

6. Are you aware of any web-based apps or systems that assist deaf or SNED learners?
☐ Yes
☐ No
☐ Not sure



7. Have you ever heard about Artificial Intelligence (AI)?
- ☐ Yes
 - ☐ No
 - ☐ Not sure
8. How familiar are you with AI technology?
- ☐ Very familiar
 - ☐ Somewhat familiar
 - ☐ Heard about it, but not sure what it is
 - ☐ Not familiar at all
9. Have you used any AI tools before (for example: chatbots, translation apps, speech-to-text, or sign language recognition tools)?
- ☐ Yes
 - ☐ No
 - ☐ Not sure
- 3.1 If yes, how often do you use AI tools?
- ☐ Every day
 - ☐ A few times a week
 - ☐ A few times a month
 - ☐ Rarely
10. For what purpose do you use AI tools? (Choose all that apply)
- ☐ Communication
 - ☐ Studying / Learning
 - ☐ Entertainment
 - ☐ Work
 - ☐ Others: _____
11. How helpful do you think AI communication tools are for Deaf learners?
- ☐ Very helpful
 - ☐ Somewhat helpful
 - ☐ Not sure
 - ☐ Not helpful
12. Would you be willing to use AI-based communication tools (such as AI sign language interpreters or chatbots)?
- ☐ Yes
 - ☐ Maybe
 - ☐ No



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

13. What do you think are the main benefits of using AI communication tools for deaf learners and teachers?
- ☐ Easier communication with hearing people
 - ☐ Better access to education
 - ☐ Support for teachers in explaining lessons
 - ☐ Faster translation
 - ☐ More independence
 - ☐ Others: _____
14. What are your main concerns about using AI communication tools in schools or learning settings? (Choose all that apply)
- ☐ Accuracy of translation
 - ☐ Privacy or data safety
 - ☐ Cost or access to technology
 - ☐ Difficulty in using the tools
 - ☐ Others: _____
15. Do you think AI or web-based tools can help address some challenges faced by deaf learners and teachers?
- ☐ Yes, very much
 - ☐ Maybe, if properly designed
 - ☐ Not sure
 - ☐ No
16. Overall, how open are you to using AI in learning and communication?
- ☐ Very open
 - ☐ Somewhat open
 - ☐ Neutral
 - ☐ Not open



Section C. Access and Barriers to AI Use

1. Do you have regular access to the internet?
☐ Yes, always
☐ Sometimes
☐ Rarely
☐ No access at all

2. What device do you use most often to connect to the internet?
☐ Smartphone
☐ Laptop / Computer
☐ Tablet
☐ None

3. Do you have access to sign language–based digital tools or apps (for example, sign language dictionaries, AI interpreters, or captioning tools)?
☐ Yes
☐ No
☐ Not sure

- 3.1 If yes, how often do you use these sign language–based tools?
☐ Every day
☐ A few times a week
☐ A few times a month
☐ Rarely

4. Where do you usually learn about new technologies like AI tools? (Choose all that apply)
☐ School or training center
☐ Social media
☐ Friends or classmates
☐ Teachers or trainers
☐ Family members
☐ I don't know / I have not learned about AI yet
☐ Others: _____

5. What are the biggest challenges you face in using AI tools?
☐ Lack of awareness or information
☐ No access to technology or devices
☐ Difficulty in understanding how to use the tools
☐ No sign language support in the AI tool
☐ Poor internet connection
☐ Others: _____



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

6. Who usually helps you when you need to use technology or online tools?
- ☐ Teacher or trainer
 - ☐ Family member
 - ☐ Friend or classmate
 - ☐ I can use them on my own
 - ☐ Others: _____
7. If an AI communication tool in sign language becomes available, how likely are you to try it?
- ☐ Very likely
 - ☐ Somewhat likely
 - ☐ Not sure
 - ☐ Not likely
8. Would you like training or orientation on how to use AI tools for learning or communication?
- ☐ Yes
 - ☐ Maybe
 - ☐ No
9. In your opinion, who should provide support or training about AI communication tools?
- ☐ School or training centers
 - ☐ Government offices (e.g., CEDO, CSWD, DepEd, TESDA)
 - ☐ Deaf organizations
 - ☐ Technology companies
 - ☐ Others: _____



Section D. Perceptions and Recommendations on AI for Communication and Learning

1. How familiar are you with the term "Artificial Intelligence" or "AI"?
 - ☐ Very familiar
 - ☐ Somewhat familiar
 - ☐ Heard of it but not sure what it means
 - ☐ Not familiar at all
2. How do you feel about using AI tools (for example, sign language interpreters, chatbots, or captioning apps) for learning or communication?
 - ☐ Very positive – I believe AI can really help
 - ☐ Somewhat positive – AI might be useful but needs improvement
 - ☐ Neutral – I have no strong opinion
 - ☐ Negative – I don't trust or like AI tools
3. Do you believe AI tools can help deaf learners understand lessons better?
 - ☐ Yes, very much
 - ☐ Maybe, in some cases
 - ☐ Not really
 - ☐ Not at all
4. Do you think AI tools can help improve communication between deaf and hearing people?
 - ☐ Yes, definitely
 - ☐ Maybe, if the tools are accurate
 - ☐ Not sure
 - ☐ No, it might cause misunderstanding
5. What are your main concerns about using AI tools? (Choose up to two)
 - ☐ Data privacy or security (fear of data breach)
 - ☐ Accuracy of translation or interpretation
 - ☐ Lack of sign language representation
 - ☐ Cost or need for expensive devices
 - ☐ No concern at all
 - ☐ Others: _____
6. How confident are you in using AI tools by yourself (without help)?
 - ☐ Very confident
 - ☐ Somewhat confident
 - ☐ Not confident
 - ☐ Not sure / never tried
7. If given the chance, would you join training or seminars about how to use AI responsibly?
 - ☐ Yes, definitely
 - ☐ Maybe
 - ☐ No



Republic of the Philippines
City of Cagayan de Oro
CITY EDUCATION AND DEVELOPMENT OFFICE

8. Who should make sure that AI tools for deaf people are accurate and inclusive?
- ☐ Government offices (DepEd, TESDA, CEDO, CSWD)
 - ☐ Schools and teachers
 - ☐ Deaf organizations and communities
 - ☐ Technology companies
 - ☐ All of the above
9. Would you recommend the use of AI tools to other deaf learners?
- ☐ Yes, I will recommend
 - ☐ Maybe, depending on the tool
 - ☐ No, I would not
10. In one word or phrase, how do you describe your hope for the future of AI in deaf education?
- ☐ Helpful and supportive
 - ☐ Inclusive and empowering
 - ☐ Innovative and modern
 - ☐ Uncertain or risky
 - ☐ Not needed / unnecessary
 - ☐ Other: _____