



Republic of the Philippines
Department of Education
REGION VII – CENTRAL VISAYAS
SCHOOLS DIVISION OF NEGROS ORIENTAL

Office of the Schools Division
Superintendent

15 MAR 2023

DIVISION MEMORANDUM

No. 184 s. 2023

PISIKAalaman 2023 INVITATION

To : Assistant Schools Division Superintendent
Chiefs, CID & SGOD
Education Program Supervisors/ Division Coordinators
Public Schools District Supervisors/ Districts-In Charge
All Others Concerned

1. This office disseminates **UP PHYSICS ASSOCIATION** an invitation to **PISIKAalaman 2023** on May 6, 2023, Saturday.
2. Attached is a primer for PISIKAalaman 2023 Rules and Mechanics.
3. The school head has the discretion to participate to this invitation.
4. Participation to this activity is purely **VOLUNTARY** and **NO FEE SHALL BE COLLECTED FROM THE PARTICIPATING STUDENTS, TEACHERS, OR PARENTS.**
5. Registration and other incidental expenses is chargeable to any school funds except MOOE and SEF subject to the usual accounting rules and regulations
6. Immediate dissemination and compliance with this Memorandum is directed.

SENE PRISCILO P. PAULIN, CESO V
Schools Division Superintendent

SPP/JMA-MKP-NLR/CID/NLR/arj
March 14, 2023



Address: Kagawasan Avenue, Capitol Area, Daro, Dumaguete City
Telephone Nos.: (035)225-2838 / 225-2376 / 422-7644
Email Address: negros.oriental@deped.gov.ph

3/10/23, 3:52 PM

Department of Education Mail - PISIKAalaman 2023 Invitation



DepEd Negros Oriental <negros.oriental@deped.gov.ph>

PISIKAalaman 2023 Invitation

1 message

UP Physics Association <uppa-org@nip.upd.edu.ph>
To: negros.oriental@deped.gov.ph

Thu, Mar 2, 2023 at 8:42 AM



Senen P. Paulin
Schools Division Superintendent
DepEd Negros Oriental

Good day!

We are the UP Physics Association, an academic organization based in the National Institute of Physics, University of the Philippines Diliman. For more than 40 years, we have constantly organized projects and events that advance the study, awareness, and appreciation of physics among students and the general public.

We requested last 30 January 2023 to the Regional Director of DepEd Region 7 an endorsement of our online Physics quiz bee entitled **PISIKAalaman 2023** among senior high schools across your region. Attached below are the communication letter made last 30 January 2023 and the primer of the said contest.

We would like to inform you that registration has now started. **Interested teams may register in the following link:** <https://tinyurl.com/PISIKAalaman2023Reg>. Moreover, the quiz bee will be moved to **06 May 2023, Saturday**. Here are the important dates to remember:

- 01 March 2023: Start of the registration period
- 08 April 2023: End of the registration period
- 06 May 2023: Competition proper

The mechanics and guidelines of the online competition remain the same. We will also be announcing the date of the orientation for the participants soon.

Thank you very much and we hope for a positive response at your earliest convenience.

In the spirit of uplifting science,

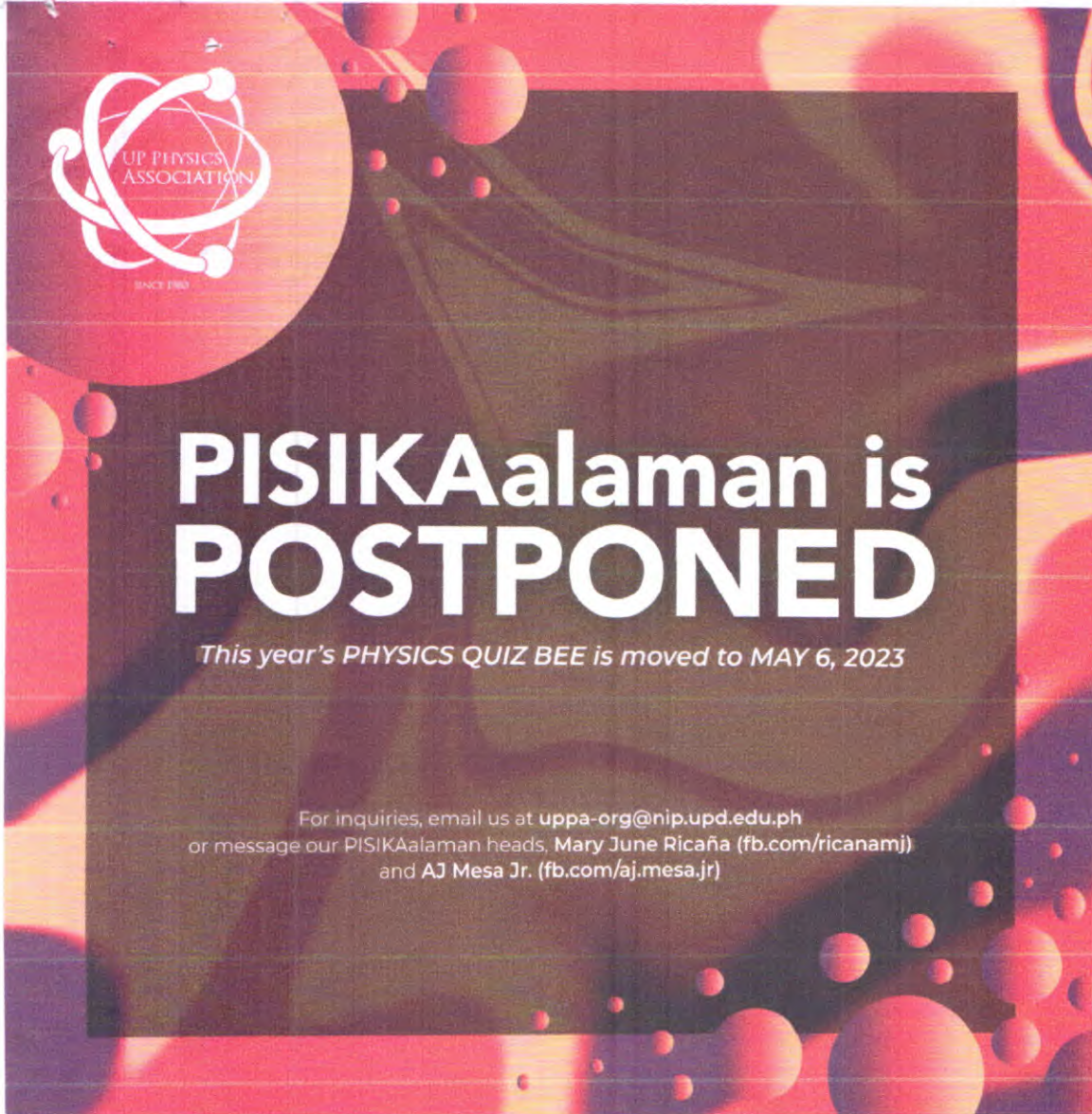
UP PHYSICS ASSOCIATION

National Institute of Physics
University of the Philippines Diliman
Quezon City
uppa-org@nip.upd.edu.ph

Request for Endorsement: https://drive.google.com/file/d/15969M2LoxeDpNJdXDLfRyOoplZHHZPGQ/view?usp=share_link

Rules and Mechanics: [UPPA PISIKAalaman 2023 Rules and Mechanics.pdf](#)

PISIKAalaman 2023 Announcement Pub:



 **UPPA PISIKAalaman 2023 Letter to DepEd Region VII.pdf**
4057K

3/10/23, 3:48 PM

Department of Education Mail - PISIKAAalaman 2023 Invitation



DepEd Negros Oriental <negros.oriental@deped.gov.ph>

PISIKAAalaman 2023 Invitation

1 message

UP Physics Association <uppa-org@nip.upd.edu.ph>
To: negros.oriental@deped.gov.ph

Mon, Mar 6, 2023 at 11:03 AM

Senen P. Paulin
Schools Division Superintendent
DepEd Negros Oriental

Good day!

You may want to check out our primer for [PISIKAAalaman 2023 Rules and Mechanics](#), attached below.

You can also access it through this drive link: <https://drive.google.com/file/d/18GoZUyu32ypZPH3InaUZw14jboQXqE1B/view?usp=sharing>

Thank you for your interest in our event!

UP PHYSICS ASSOCIATION
National Institute of Physics
University of the Philippines Diliman
Quezon City
uppa-org@nip.upd.edu.ph

 **UPPA PISIKAAalaman 2023 Rules and Mechanics.pdf**
5078K

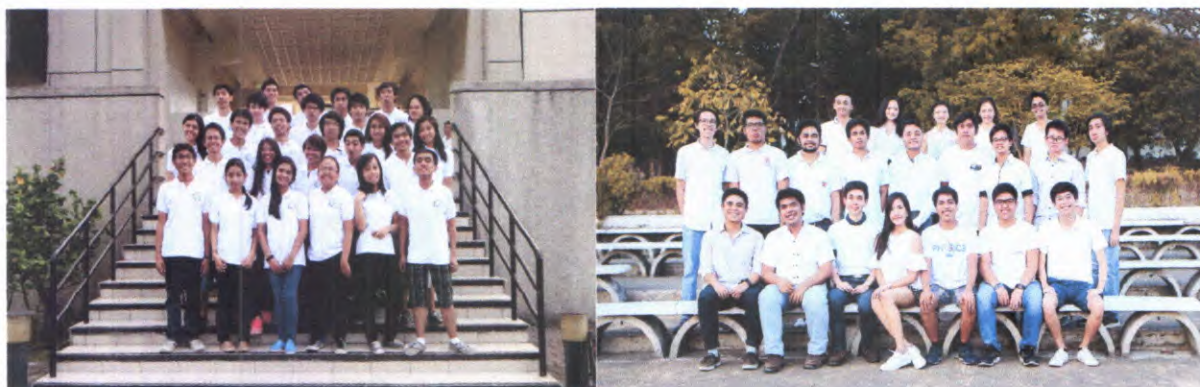
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About the Organization

UP Physics Association

The UP Physics Association (UPPA) is an established non-profit, academic organization based in the University of the Philippines - Diliman committed to the promotion and development of Physics inside and outside the university. For more than 40 years, the UPPA has constantly organized projects and events that advances the study, awareness, and appreciation of Physics among students and the general public.



About the Event

PISIKAalaman 2023

PISIKAalaman is an annual inter-high school Physics quiz bee held by the UP Physics Association and is now geared for the revised basic education curriculum of the Philippines. Since its inception in 2004, the event aims to provide an alternative way for students to excel in Physics through a competitive activity and to encourage students to pursue science-related programs in the future, especially in the tertiary level.



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RULES AND MECHANICS

I. Registration

- A. The registration period is until **08 April 2023**.
- B. Each team that wishes to register for PISIKAalamanan must pay a non-refundable registration fee of **Four Hundred Fifty Pesos (Php 450.00)**. For Public High Schools, there is a discounted fee of **Three Hundred Fifty Pesos (Php 350.00)** per team. Registration will only be confirmed when the registration fee has been paid. All interested teams are required to register at <https://tinurl.com/PISIKAalamanan2023Reg> on or before **08 April 2023**.
- C. Modes of payment:
- | | |
|----------------------------------------------------------------|---------------------------------------------------------|
| BPI
Arrienne Norfela Logarta
0736071349 | GCash
Arrienne Norfela Logarta
09277486025 |
| CIMB
Arrienne Norfela Agan Logarta
20867503770800 | |
- D. Proof of payment for registration of the event must be sent to uppa-org@nip.upd.edu.ph. Acknowledgment of payment will be sent through the registrant's/team coach's email.
- E. The details of the event contact persons are as follows:
Mary June A. Ricaña (External Affairs VP): maricana1@up.edu.ph | 0995 295 0085
Allan Jose Jr. Mesa (Event Co-head): ajmesa@up.edu.ph | 0956 419 4710

II. General Competition Guidelines

- A. Participants
1. All **Senior High Schools in the Philippines** are eligible to register a **maximum of two (2) teams** in the competition.



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2. Each team should be composed of **three (3) participating members**. The team may also register **one (1) optional substitute member**. Only bona fide senior high school students at any level, enrolled in the participating school, are eligible to be a member of the team.
 - 2a. The three participating members are the main participants for the event.
 - 2b. In case one of the participating members cannot make it to the competition **before the start of the elimination round**, the substitute member can take the position.
3. **The substitute member may only replace one of the main participants before the start of the elimination round**. The organizers must be informed when a team decides to utilize its substitute member.
 - 3a. **Teams are only allowed to change their lineup before the elimination round**. However, further substitution is not allowed throughout the succeeding rounds.
 - 3b. In case any of the **registered participants cannot make it on the day of the contest proper** resulting in an **incomplete number of required team members (three - 3)**, the team will be disqualified.

B. Registration Information Needed

The University of the Philippines Physics Association values the privacy and security of personal data given to us by the applicants of the said event. As an academic organization, we are committed to comply with the Data Privacy Act of 2012 (DPA) and treat the information, data, and documents uploaded with utmost confidentiality while ensuring that our genuine and legitimate interests to fully and effectively carry out responsibilities are met.

The University of the Philippines Physics Association holds the right to collect and use personal data given by the applicants to verify the applicant's information is true. We collect your personal data that include those you provide us during your application. The University of the Philippines Physics Association will not share your personal information with any third parties without your consent, unless the law allows us to do so.

1. The team coach must submit to the registration google form the team's **recent valid school IDs, photos of the participants holding their respective school IDs, and proofs/certificates of enrollment** for identification purposes. The **email addresses to be used throughout the competition** and **contact numbers** of both the coach and each of the participating students will also be required.



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2. The team coach shall provide his/her **personal Gcash number** or **Bank account information**. The team coach shall be the one responsible for the prize distribution of the winning team.

C. Devices and Accounts Needed

1. *A reliable laptop/personal computer with working camera and microphone.* Your device should be able to handle **Zoom, Discord, and a web browser all at once**.
2. *A reliable internet connection.* The competition is fully implemented online; thus, the participants need a reliable internet connection.

Technical issues. PISIKAAalaman Quiz Bee Problems will not be displayed again if technical issues are on the participant's side. Technical difficulties include but are not limited to the following:

- a. internet disconnection and/or latency issues
 - b. hardware/device problems
 - c. electrical outage
3. *A Zoom account.* Prior to the competition, the participants Zoom name must be changed into the following format: **"Abbreviation of the school name - Team number | Family Name"**.
 4. *A Discord account.* Prior to the competition, the participants Discord name must be changed into the following format: **"Abbreviation of the school name - Team number | Family Name"**.

D. Competition Proper

1. PISIKAAalaman 2023 will be held online by utilizing **Zoom, Discord, and an online quizzing platform**.
2. When entering the Zoom room, Discord server, and the online quizzing platform, the participants must follow the following username format:
Abbreviation of the school name - Team number | Family Name
e.g. UPD - 01 | Cruz
3. This year, Pisikaalaman 2023 will be divided into two (2) stages: **Eliminations and Finals**.
4. Elimination Round



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- i. In case of a tie around the 10th rank, the tied team shall once again do another Exam until the tie is broken. This exam shall comprise 10 items to be answered for **5 minutes**. Team(s) with the **highest cumulative points** in this tie-breaking round will take the **contested slot**. The same mechanics above apply for this tie-breaking round.
- j. In case there is still a tie around the 10th rank, the **individual scores per team will be compared** and the **team with the highest individual scorer will take the contested slot**.

e.g.

After the tie-breaking round and there is still a tie around the 10th rank given by the scenario

School - Team	Individual Scores	Total Score	Rank
School A - Team 1	10, 8, 6	24	10.5
School B - Team 1	10, 9, 5	24	10.5

In this case, **School B - Team 1** will take the 10th rank.

5. Final Round

- a. The final round will be conducted 1 **month after the elimination round**.
- b. The final round will be conducted in **Discord**. When joining the Discord Server, be sure to **change your name with the required format** as stipulated in section II. D. 2.
- c. UPPA facilitators **will segregate the teams** into their respective **discord category**. **Participants will be assigned** their corresponding **discord roles** (team number) to restrict their accessible channels.
- d. **Each team** will be assigned with **one UPPA Facilitator** in their respective channels.
- e. Questions in this round will be answered in **teams**.



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- f. Each team will be given access to a **voice and text channel**. They shall use the **voice channel** to **collaborate their answers and solutions**. On the other hand, they shall use the **text channel** for their **final answer** (Ex. "E1: 15 [kg]"). E1 signifies "Easy question 1". The units should be enclosed in **square brackets**.
- g. Each participant is required to **turn on** their **camera and microphone**. The camera should be able to **capture the face** of the participant.
- h. Solutions will not be shown unless when deemed necessary by the board of judges. Participants may secure themselves **clean solution papers**. The **UPPA Facilitator** of the corresponding team shall double check that the **scratch papers are clean**.
- i. This round will be divided into three parts: **Easy, Average, and Difficult**.
- j. There are **7 questions** for the **Easy round**, **7 questions** for the **Average round**, and **5 questions** for the **Difficult round**.
- k. The pointing scheme for each round is as follows: **Easy – 2 pt; Average – 3 pts; and Difficult – 5 pts**.
- l. Answering time for each question in each round will be as follows: **Round 1 – 45 seconds; Round 2 – 90 seconds; Round 3 – 135 seconds**. The timer will start after the second reading.
- m. The questions will be read by the Emcee and should be broadcasted through **FB Live**. The Zoom room should then be **"share screened"** by the team's corresponding discord UPPA-facilitator.
- n. **The questions will be read twice**. For the first reading, the participants must raise their hands visible in their video feed. They are only allowed to start solving after the first reading. A warning will be given each time the participants start writing and solving during the first reading.
- o. The UPPA facilitator will send a **"TIMES UP"** message to the text channel and answers sent before this message will be accepted. Teams may **send multiple answers** but **only the latest answer will be credited**.



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- p. In case any of the participating members get disconnected in the middle of the question, the following conditions will be enforced:
- o.i. If the team was able to send an answer before a member gets disconnected, the latest answer will be considered as the **FINAL ANSWER** and will be credited in case the answer is correct. However, if the member can reconnect before the end of the timer, the team can change their answer.
 - o.ii. If the team was not able to send an answer before a member gets disconnected and the disconnected member cannot return before the end of the timer for that question, the team will not be able to get points.
 - o.iii. If the disconnected member cannot return for the next questions, the team will not be able to gain any points unless the disconnected member was able to reconnect.
 - o.iv. If the disconnected member cannot reconnect within 15 minutes, the team will be disqualified.
- q. The **Top 3 teams with the highest number of points** will be awarded as the Champion, First Runner-up, and Second Runner-up. Winners will receive a cash prize provided through Gcash.
- r. In case of a tie for the top three places, a **Clincher round will take place**, consisting of **five (5) questions** with each question having a specified amount of time to answer and with varying points. The ranks will be determined based on the team scores in this round.
- s. If the Clincher round can't break the tie, a **Sudden Victory round** will occur. Questions will be given until a team fails to answer a question, resulting in elimination. **The last team standing wins the Sudden Victory round.**
6. In the case when a contestant(s) has any concerns regarding the answer, he/she shall inform their corresponding UPPA Facilitator. The UPPA Facilitator will then inform the emcee. The emcee will voice the question, then the board of judges will be inclined to address the concern. **Decisions made by the said board will be final and irrevocable.** Concerns must be raised immediately before proceeding to the next question, else, would be deemed invalid.



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7. The said board also has the power to void a question.
8. Only a contestant has the right to raise a concern. Any comments and concerns from the audience members (advisers included) will not be entertained.
9. **Non-graphing scientific calculators are allowed.** Before each stage starts, contestants are required to show their calculators for inspection and resetting. **Programming softwares is not allowed.**
10. A link of the **Formula sheets** containing general formulas and equations will be provided by their corresponding UPPA Facilitator. However, contestants are highly discouraged to rely solely on these formula sheets. Participants are advised to familiarize themselves with useful and necessary equations.
11. **Cheating in any form will NOT be tolerated.** Contestants/teams that are proven guilty of cheating will automatically be disqualified. Common forms of cheating includes: searching the internet during the contest proper, attempting to transfer to other discord categories with the intent of copying the opponent's answers, communication beyond the provided discord voice channel, using a cheat sheet beyond the provided Formula sheet, and change of participants after the elimination round.
12. Teams who qualified for the final round **should enter the Zoom/Discord channel on time.** Qualified teams **who failed** to be within the Zoom/Discord channel **ten (10) minutes** after the designated time **will be disqualified.**

III. Prizes

- A. The top three teams will be named as the **Champion, First Runner-up, and Second Runner-up respectively**, and shall receive their corresponding cash prizes through Gcash.
- B. Cash prizes shall be given to the said top three teams.
Champion – Php 5,000
First Runner-up – Php 3,000
Second Runner-up – Php 2,000
- C. Certificates of participation shall be given to all the contestants and advisers at the end of the event through email.



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TOPIC COVERAGE

The topics included will come from the General Physics curriculum of senior high school students following the STEM track.

General Physics I

- Vectors
- Kinematics: Motion Along a Straight Line, in 2-Dimensions and in 3-Dimensions
- Newton's Laws of Motion
- Work, Energy, and Conservation of Energy
- Center of Mass, Momentum, Impulse, and Collisions
- Rotational equilibrium and rotational dynamics
- Mechanical Waves and Sound
- Temperature and Heat, Ideal Gasses, and the Laws of Thermodynamics

General Physics II

- Electrostatics (Electric Charge, Electric Fields, Electric Flux and Electric Potential)
- Capacitance and Dielectrics
- Current, Resistance, and Electromotive Force
- DC Circuits
- Magnetostatics
- Light as an Electromagnetic Wave
- Geometric Optics
- Interference and Diffraction
- Galilean Relativity

Recommended mathematical skill(s)

- Basic calculus (SHS)
- Trigonometry (SHS)

Recommended references

Any fundamentals of Physics academic material. University-level materials may also help in the preparation for the competition.



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