January 17, 2019

MEMORANDUM TO:

Chief Education Supervisors, CID and SGOD
Secondary School Principals
Officers-in-Charge
Public and Private Schools

PISIKAalaman 2019 OF THE UNIVERSITY OF THE PHILIPPINES

Attached is Regional Advisory No. 03, s. 2019 dated January 4, 2019 re: PISIKAalaman 2019, an inter-high school physics quiz bee on February 9, 2019 at College of Science, University of the Philippines-Diliman, content of which is self-explanatory, for information.

Wide dissemination of this Memorandum is desired.

JOEL T. TORRECAMPO
Officer-In-Charge
Office of the Schools Division Superintendent
Advisory No. 03, s. 2019
January 4, 2019
In compliance with DepEd Order No. 8, 2013
this Advisory is issued not for endorsement per DO 28, s. 2001,
but for the information of DepEd officials,
personnel/staff, as well as the concerned public.
(Visit www.deped.gov.ph)

PISIKAalam 2019

The University of the Philippines Physics Association (UPPA) will conduct PISIKAalam, an annual inter-high school physics quiz bee. This aims to provide another way for students to excel in physics through a competitive activity, and also, to encourage students to pursue science related careers in the future.

The event will be held on February 9, 2019 at the College of Science, University of the Philippines-Diliman.

For more information, you may contact:
Jejomar Y. Derecho
Vice President for External Affairs
Telephone Number: +(63) 9151792658
Email: upphysics@gmail.com

This is issued for information purpose not an indorsement of the activity.
Dr. Wilfredo E. Cabral  
Asst. Regional Director  
Department of Education - NCR  
3 January 2019

Dear Ma'am: 

Greetings!

The UP Physics Association (UPPA) is an established academic and non-profit organization committed to the promotion and development of Physics inside and outside the University of the Philippines. For more than thirty years now, the UPPA has continuously strived to organized projects that would advance the study and appreciation of physics among students and the general public, and would increase awareness within the Filipino community leading to further research and excellence in the field.

In the interest of promoting physics to the general public, the organization will again hold PISIKAAalam, an annual inter-high school physics quizbee, now geared for the revised basic education curriculum of the Philippines. This aims to provide another way for students to excel in physics through a competitive activity, and also to encourage students to pursue science-related programs in the future, especially physics in the tertiary level.

We are requesting your office to help us endorse PISIKAAalam 2019 to senior high schools across the country. The event will be held on February 9, 2019 at the College of Science, University of the Philippines-Diliman. This tournament would surely complement the science and technology program of the education in our secondary schools.

Attached is a copy of the event guide. For further inquiries regarding the activity, please contact us via upphysics@gmail.com or through the given contact information.

Thank you very much!

In the spirit of uplifting science,

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ABOUT THE EVENT

PISIKAalaman is an annual inter-high school physics quiz bee held by the UP Physics Association that is now geared for the revised basic education curriculum of the Philippines. This event aims to provide another way for students to excel in physics through a competitive activity, and also to encourage students to pursue science-related programs in the future.
RULES AND MECHANICS

I. REGISTRATION
A. Registration period is from January 8, 2019 until January 25, 2019

B. Teams that wish to register for PISIKAalaman must pay a registration fee of two hundred fifty pesos (P250). Registration will only be confirmed when the registration fee has been paid. All interested teams are required to register at tinyurl.com/pisi2019 on or before January 25, 2019.

C. Modes of payment:

(i) Landbank Account:
UP Physics Association, Account no. 3071-0154-15
(ii) Direct early payment

UP Physics Association
National Institute of Physics
University of the Philippines Dillman
Quezon City, Metro Manila, 1101
upphysics@gmail.com

D. Acknowledgment of payment will be sent through the registrant’s/team adviser’s email.

E. The contact details of the event organizer are as follows:

+(63) 935 471 3784 (Marco Immanuel B. Rivera - Event Co-head)
+(63) 916 509 8476 (Jemimah Bian T. Anila - Event Co-head)

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.
2. Each team should be composed of **exactly three (3) members**. Only bona fide senior high school students at any level, taking the STEM track and enrolled in the participating school, are eligible to be a member of the team.

3. Team members **must bring their valid school ID** on the day of the event for identification purposes.

4. Team composition may be changed until the start of the elimination round. The organizers must be informed when a team decides to replace any of its members.

**B. Competition Proper**

1. PISIKalaman 2019 will be held in the College of Science Auditorium, University of the Philippines-Diliman. Thus, all participants must comply with the rules and regulations in application within the campus.

2. Piskalaman 2019 is divided into three (3) rounds: **Elimination Round, Semi-finals Round, and Finals Round.**

3. **Elimination Round**

   a. This will be an **individual written exam** consisting of **30 items**.
   b. Each team member will be required to answer the said exam for 45 minutes.
   c. The exam will be identical for all.
   d. Contestants may only use a **black or a blue pen**. Test papers, answer sheets, and scratch papers will be provided.
   e. At the end of the exam, answers will be graded. The TOP 20 teams with the highest cumulative number of points will go through to the Semi-Finals Round.
   f. The scores of the TOP 20 teams will be posted. For transparency, answers and solutions to the questions will also be posted.
   g. However, test papers will **NOT** be returned to teams. It is highly advisable for teams to take note of their answers.
h. In case of a tie, a tie-breaker round will take place. Teams who tied together will be asked to answer another individual written exam consisting of 10 items. Each student will be required to answer the said tie-breaker exam for 5 minutes. Team/s with the highest cumulative number of points will go through to the next round.

4. Semi-Finals Round

a. Questions in this round will be answered in teams.
b. Each team will be given a marker and a board to show their answers. Solutions are not needed to be shown. Scratch papers will be provided.
c. This round will be divided into three parts: Easy, Moderate, and Hard.
d. There are 7 questions for the Easy round, 7 questions for the Moderate round, and 6 questions for the Hard round.
e. Points for each question in each round will amount as follows: Easy - 20; Moderate - 40; Hard - 60.
f. Answering time for each question in each round will be as follows: Easy - 45 seconds; Moderate - 1 minute; Hard - 1 minute 30 seconds.
g. The TOP 10 teams with the highest number of points will go through to the Finals round.
h. In case of a tie, a Clincher round will take place, consisting of five (5) questions. Each question will have an equal bearing and a specified amount of answering time, with accordance to the difficulty of the question.
i. If the Clincher round can't break the tie, a Sudden Death round will occur.
j. For the Sudden Death round, questions will be given until a team fails to answer a question, and is eliminated. The last team standing wins the Sudden Death round.

5. Finals Round

a. Questions in this round will be answered in teams.
b. Each team will be given a marker and a board to show their answers. Solutions are not needed to be shown. Scratch papers will be provided.
c. This round will be divided into three parts: Easy, Moderate, Hard.
d. There are 7 questions for the Easy round, 7 questions for the Moderate round, and 6 questions for the Hard round.
e. Points for each question in each round will amount as follows: Easy - 20; Moderate - 40; Hard - 60
f. Answering time for each question in each round will be as follows: Easy - 45 seconds; Moderate - 1 minute 30 seconds; Hard - 3 minutes
g. 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, and a trophy.
h. In case of a tie, a Clincher round will take place, consisting of five (5) questions. Each question will have an equal bearing and a specified amount of answering time, with accordance to the difficulty of the question.
i. If the Clincher round can't break the tie, a Sudden Death round will occur.
j. For the Sudden Death round, questions will be given until a team fails to answer a question, and is eliminated. The last team standing wins the Sudden Death round.

6. In case a contestant raises a concern about the answer, the board of judges will be inclined to address the concern. Any decision made by the said board will be final and irrevocable.

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. Scientific calculators are allowed. Before each round starts, contestants are required to submit their calculators for inspection and resetting.

10. Sheets containing general formulas and equations will be provided. However, contestants are highly discouraged to rely solely on these formula sheets. Participants are advised to memorize and/or familiarize themselves with useful and necessary equations.
11. **Cheating of any form will NOT be tolerated.** Contestants/teams that are proven guilty of cheating will automatically be disqualified.

12. Teams who qualified for the succeeding round, should enter the contest hall on time. **Qualified teams who fails to be within the venue five (5) 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 a coveted Pisikaalaman trophy.

B. Cash prizes shall be given to the said top three teams

C. Certificates of participation shall be given to the contestants and advisers at the end of the event
TOPIC COVERAGE

The topics included will come from the General Physics curriculum of a Grade 12 student who is following a STEM track.

General Physics I

1. Vectors
2. Kinematics: Motion Along a Straight Line, In 2-Dimensions and in 3-Dimensions
3. Newton’s Laws of Motion
5. Center of Mass, Momentum, Impulse, and Collisions
6. Rotational equilibrium and rotational dynamics
7. Mechanical Waves and Sound
8. Temperature and Heat, Ideal Gases, and the Laws of Thermodynamics

General Physics II

1. Electrostatics (Electric Charge, Electric Fields, Electric Flux and Electric Potential)
2. Capacitance and Dielectrics
3. Current, Resistance, and Electromotive Force
4. DC Circuits
5. Magnetostatics
6. Light as an EM Wave
7. Geometric Optics
8. Interference and Diffraction
9. Relativity
10. Atomic and Nuclear Phenomena
CERTIFICATION

This is to certify that the UP Physics Association (UPPA) is a duly recognized organization of the College of Science, University of the Philippines, Diliman for the academic year 2018-2019. This certification is being issued for whatever purpose it may serve.

Sincerely yours,

Ezadara T. Yu, Ph.D.
Associate Dean
Student, Alumni and Public Affairs