



IMPACT 2019

6TH ANNUAL INTER-HIGH MATHEMATICS AND PHYSICS COMPETITION

Eligibility

1. The contest is open to all bona fide junior and senior high school students.
2. Contestants are required to bring their school IDs or any certification authenticating the contestants' enrollment to their respective schools upon registration. Each participating student is required to wear his/her proper school uniform during the contest.

General Rules/Details

1. IMPACT 2019: Inter-High Mathematics and Physics Competition will be held on **January 19, 2019**.
2. There will be two divisions: one for the Junior High School students and one for the Senior High school students. Both will take the Elimination Round in the morning, but with different set of questions. There will be two separate Final Rounds for the two divisions, again each with different set of questions.
3. Each participating school should have at most four (4) teams, two each for the Junior and Senior High divisions, with each team consisting of three (3) exclusive members.
 - Three primary contestants shall be allowed on stage during the whole contest proper.
 - The registered fourth member shall act as the alternate for the team and division in which he/she is registered in.
 - If a primary contestant is not able to compete during the contest due to any valid reason, the alternate contestant will be allowed to compete in his/her place, provided that they are of the same division.
4. Each participating school is required to have at least one coach.
5. The contest coverage includes:
 - Mathematics:
 - i. Algebra
 - ii. Geometry
 - iii. Trigonometry
 - iv. Statistics
 - Physics
 - i. Classical Mechanics
 - ii. Electromagnetism
 - iii. Thermodynamics
 - iv. Optics
 - v. Waves
 - General Trivia about Mathematics and Physics

In particular, the examination coverage for the Senior High division will be based on the following link: <http://www.deped.gov.ph/k-to-12/curriculum-guides/Academic-Track>.

6. Registration will be strictly from **8 AM** to **9 AM** ONLY. Registration processes will be strictly implemented.

7. Clarifications regarding the Official Rules and Mechanics of IMPACT 2019: Inter-high Math and Physics Competition will only be entertained by the organizers BEFORE the scheduled time of the contest proper.
8. **Any form of cheating is strictly prohibited.** No cellphones, tablets, or any other electronic and/or communication devices are allowed during the competition. If a contestant is found to have any of these in his/her possession during the contest proper, his/her team will be automatically disqualified from the contest.
9. All decisions are subject to the approval of the judges and the organizers of IMPACT 2019: Inter-high Math and Physics Competition, and are considered final and irrevocable.

Specific Rules/Details

A. Elimination Round

1. The Elimination Round will be held from **9 AM** to **11 AM**.
2. Both divisions will take the Elimination Round at the same time, but in different rooms.
3. Each member of the group will take a 45-item objective written examination for two (2) hours.
4. The exam covers topics under the contest coverage stated in the General Rule No. 5. No questions regarding the exam shall be entertained during the competition.
5. Each individual team member will be provided a questionnaire, a separate answer sheet, and scratch papers. All answers should be written legibly on the answer sheets provided, as these would be the only basis for the tabulation of scores. Illegible answers will be considered as incorrect answers. Contestants should follow the instructions given by the proctor carefully.
6. The total of the team members' scores in each team will be tallied, and the ten (10) teams with the highest combined scores will advance to the Final Round. In case of a tie, the total number of correct difficult, average, and easy items will be tabulated and ranked respectively until the tie is broken.

For example, shown on the following tables is the breakdown of the scores of two teams vying for the last spot in the Final Round.

Team 1	Easy	Average	Difficult	Total
Student 1	19	8	5	32
Student 2	18	8	8	34
Student 3	15	9	7	31
Total	52	25	20	97

Team 1	Easy	Average	Difficult	Total
Student 1	20	6	5	31
Student 2	18	10	7	35
Student 3	15	8	8	31
Total	53	24	20	97

Both teams garnered a total score of 97 points. In principle, the team with the higher number of correct answers for the difficult questions will proceed to the next round. However, in this case, both teams gathered the same number of correct answers for difficult items. The total correct answers for the average items will then be computed and compared. It shows that Team 1 got

the higher number of correct answers for the average items (25 to 24), hence, Team 1 will advance to the Final Round.

7. The teams advancing to the Final Round will be announced right after the tabulation of the scores is finished. All schools are entitled to request for the counterchecking of the papers. However, this will be subject to the approval of the organizers of the competition.

B. Final Round

1. An Opening Program will be held at the **Melchor Hall, UP College of Engineering** before the announcement of the teams advancing to the Final Round.
2. The two divisions will have two separate Final Rounds, each with their own set of questions. The following specifics will apply to both divisions.
3. All scores are reset back to zero (0).
4. Unlike the Elimination Round, the whole team, with its three (3) members, will participate in the Final Round. Each team will be given markers, an eraser, and a whiteboard on which they will write their answers. Scratch papers will only be provided before the Average Category. **No scratch papers will be given for the Easy Category questions.** Only the team number shall be written on the top right corner of the whiteboard before the timer for each question starts.
5. The Final Round will be divided into three categories: Easy, Average, and Difficult. The table below shows the number of questions, the corresponding value of one (1) correct answer for each category, and the time allotted to answer each question.

Category	Points	Number of Questions	Time Allotted (seconds)
Easy	2	10	15
Average	3	7	30
Difficult	7	5	60

6. A Panel of Judges of professors from the Institute of Mathematics and the National Institute of Physics will be present during the Final Round.
7. At the beginning of the Final Round, each team will be given three (3) power cards: two (2) Double-the-Point cards, and one (1) Triple-the-point card. The power cards have the effect as their names suggest. Teams have the option to use their power cards only when the question category is announced. Only one power card can be used per question. If the team did not get the correct answer after using a power card, that card will be forfeited and will not take effect.
8. A challenge question will be given at the end of each category. Teams cannot use the power cards for this type of question. A team has the option whether or not they will participate. If a team decides to participate and answers the question correctly, they will be given corresponding points. However, if an incorrect answer is given, the team will incur a deduction. These are shown in the table below.

Category	Points	Deduction
Easy	5	3
Average	8	5
Difficult	15	10

9. The time allotted for answering each question will be announced by the quizmaster before reading the question. Each question will be read twice. The timer will start once the quizmaster said the word “GO.”
10. Contestants may start writing notes or solving the problem on the answer sheets while the question is being read. However, they may only write their final answers on the whiteboard once the timer has started.
11. Once the buzzer signaling the end of the answering time is heard, teams shall raise their board facing the Panel of Judges for inspection. No one is allowed to change the answers written on the boards after the buzzer is heard. If by this time, a team is still writing their answer, their chance of answering the question will be void. The quizmaster shall then publicly announce the answer and the teams who got the correct answer.
12. Rules on proper spelling, capitalization (if applicable), significant figures and units will be strictly imposed. No abbreviations shall be honored unless required or permitted. Answers should be written legibly on the boards.
13. Only the contestants can raise protests. They shall raise their hands and wait for the quizmaster to acknowledge them. This should be done before the start of the next question. Protests raised at the reading of the next question will no longer be entertained. The contestant is required to present valid reference/s supporting his/her arguments. Only the judges and organizers will decide on what action shall be taken about the said protest.
14. The team with the highest total number of points in the Final Round will be declared the **CHAMPION** of IMPACT 2019: Inter-high Math and Physics Competition. The team with the second and third highest total number of points at the end of the round will be declared as the **FIRST RUNNER-UP** and **SECOND RUNNER-UP**, respectively.
15. In case of a tie, a clincher question will be given. The first team who gets the correct answer will get the place.
16. After the Competition proper, a Closing Program will be held. This will also be the time for the recognition of winners.

Awards

The winners of IMPACT 2019: Inter-high Math and Physics Competition will receive the following:

CHAMPION

- PHP 2,500 worth of prizes*

FIRST RUNNER-UP

- PHP 1,500 worth of prizes*

SECOND RUNNER-UP

- PHP 1,000 worth of prizes*

*inclusive of cash and prizes

CERTIFICATES

Every participating student will receive a Certificate of Recognition in the IMPACT 2017: Inter-high Math and Physics Competition.

Coaches will also receive Certificates of Appreciation for assisting their students.

REGISTRATION

Kindly fill out the registration form which can be found on this link: <http://impact.up-crest.org/>. You can also submit your registration forms thru email. Specific details about the registration are tabulated below.

	Registration Period	Registration Fee (per team)
Early Registration	Nov. 19, 2018 to Dec. 8, 2018	400
Regular Registration	Dec. 9, 2018 to Jan. 11, 2019	450
Walk-in Registration	Event Proper (Jan. 19, 2019)	500

For the Early and Regular Registration, the deadline of payment is **three (3) days before the contest proper**. Our representative will provide you more details after your registration has been confirmed. For more inquiries and further announcements, you can visit our Facebook page at <http://facebook.com/impact.up-crest/>. You can also reach us thru impact@up-crest.org, or contact:

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