

# 2<sup>nd</sup> National Science & Engineering Fair 2019 PHILIPPINES

February 2-3, 2019, Teachers Camp, Baguio City



DEPED CAVITE PROVINCE

Dear Sir / Madam,

SUBJECT: 2<sup>nd</sup> NATIONAL SCIENCE AND ENGINEERING FAIR PHILIPPINES

11/22/18

A Pleasant Day to you!

In support to the thrust of the Department of Education curriculum in nurturing a nation full of curious, inquisitive and problem-solving citizens through holistic learning and standards-based education, the STEM Hub, a premier institution which focuses on STEM Education, research and education programs would like to seek for your endorsement for the 2<sup>nd</sup> National Science and Engineering Fair (NSEF) Philippines to be held at the Teachers' Camp, Baguio City on February 2-3, 2019.

The program is to create a culture of research in the nation and bring about opportunities for learning and collaboration platform among the young scientific minds and teachers. In April 2018, there were about 376 young research talents and observers with 48 research projects from all over the country participated in the 1<sup>st</sup> NSEF. We are successful in the digital publication of their abstracts in the National Library of Singapore through the support of our international partner Ascendens Asia Singapore. We are expanding this program by opening it to elementary, high school and college students and basic education teachers to promote our thrust and support in the STEM education in the wide scope.

We respectfully seek for your favor by helping us reach students and teachers who have great interest in the field of science and multidisciplinary research, including but not limited to, but not limited to, science, technology, engineering and mathematics that have greater appreciation and desire to improve the lives of the human beings, the society and the environment.

Attached are the details of the benefits as well as the program materials for reference.

Thank you very much.

Sincerely,

JOSEPH R. JALOB, M.A., M.Ed., Ph.D.

Director, The STEM Hub

AVP, Ascendens Asia Singapore

Former Supervising Education Program Specialist, DepEd Central Office

*For your opportunity  
action, please  
Thank you - Mr. Jalob*

Organized by:

Supported and Endorsed by:



TO: All Concerned

December 2, 2018

For your information, and guidance of all concerned.

*Cherrylou D. Repia*  
CHERRYLOU D. REPIA  
Schools Division Superintendent

# 2<sup>nd</sup> National Science & Engineering Fair 2019 PHILIPPINES

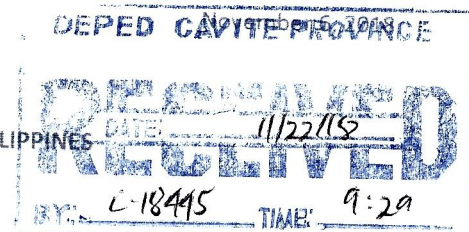
February 2-3, 2019, Teachers Camp, Baguio City



Dear Sir / Madam

SUBJECT: 2<sup>ND</sup> NATIONAL SCIENCE AND ENGINEERING FAIR PHILIPPINES

A pleasant day to you!



In support to the thrust of the Department of Education curriculum in cultivating a nation full of critical thinking and problem solving citizens through holistic learning and standards-based education, the STEM Hub, a premier institution which focuses on STEM Education, research and education programs would like to seek for your endorsement for the 2<sup>nd</sup> National Science and Engineering Fair (NSEE) Philippines to be held at the Teachers' Camp, Baguio City on February 2-3, 2019.

The program aims to create a culture of research in the nation and bring about opportunities for learning and collaboration platform among the young scientific minds and teachers. In April 2018, there were about 300 young research finalists and observers with 81 research projects from all over the country participated in the 1<sup>st</sup> NSEE. We are successful in the digital publication of these abstracts in the National Library of Singapore through the support of our international partner Ascendens Asia Singapore. We are expanding this program by opening it to elementary, high school, and college students and basic education teachers to promote our thrust and support in the STEM education in a wider scope.

We respectfully seek for your favor by helping us reach students and teachers who have great interest in the field of scientific and multidisciplinary research. Hoping that with your support, we could be able to create a civilization filled with scientific minds that have greater appreciation and desire to improve the lives of the human beings, the society and the environment.

Attached are the details of the events as well as the program matrix for reference.

Thank you very much,

Sincerely,

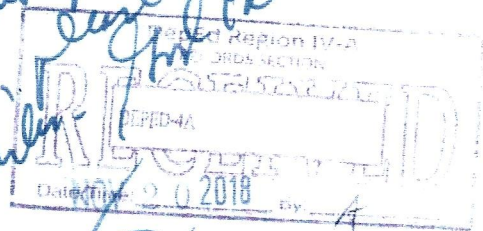
JOSEPH R. JACOB, MBA, MAEd, FRIEDr

Director, The STEM Hub

AVP, Ascendens Asia Singapore

Former Supervising Education Program Specialist, DepEd Central Office

*10-SDSS  
For your opportunity  
action, please I plans  
J. Jacob  
2018/11/22*



Organized by:

Supported and Endorsed by:



SINGAPORE INSTITUTE OF  
MULTIDISCIPLINARY  
PROFESSIONS

**RoboRAVE**  
International  
Robotics Education and Competition



ASCENDENS *Excelandia IT Services*



## ELEMENTARY CATEGORY

### Science Invention & Investigation Competition

This event is open for elementary pupils ages 8-12 from private and public schools that have the interest in creating new products and finding answers to questions through investigation. It aims to develop critical thinking and problem solving skills among children.

Categories:

#### 1. Invention

This category is open for individuals and team who would want to showcase their noble invention that may be beneficial to human beings, environment of the society. Project description supported by pictures should be emailed for pre-evaluation.

#### 2. Investigation

This category will focus on the scientific investigation made by the pupils. The projects may focus on science, mathematics or robotics. Project description should be emailed for pre evaluation.

How to join:

- A. With the assistance of the school adviser, email us at [nsefp1@gmail.com](mailto:nsefp1@gmail.com) to express you intent to join NSEF 2019 and attached the following:
  - a) Project Description
  - b) Copy of the deposit slip of P300 pre evaluation fee
  - c) Information (name, school, grade level, age, name of the adviser)
  - d) Parent consent indicating that the child is allowed to join the competition
- B. You will receive a feedback to inform you if you qualify for the competition. You will receive the details of the competition including the write ups needed to be submitted. Deposit the registration fees within 5 days after the confirmation.

## JUNIOR & SENIOR HIGH SCHOOL CATEGORY

### Scientific Research Competition

#### Description

This event is open for students from public and privates schools ages 13-18. It is a venue for the youth of the country to express and practice their acquired scientific skills by finding solutions to the societal, environmental and even community problems through scientific research.

Categories:

#### 1. Experimenting Category

This category includes the following topics:  
Behavioural & Social, Sciences, Biology,  
Chemistry, Environmental, Flora & Fauna, Food  
Science

#### 2. Engineering Category

This category includes the following topics:  
Astrophysics, Energy & Space, Physics, Electricity  
& Electronics, Inventions & Innovations, Robotics,  
Computer Science & Math

#### 3. Multidisciplinary Category (Open Category)

This category includes research topics other than experimenting and engineering categories.

How to join:

- A. Email us at [nsefp1@gmail.com](mailto:nsefp1@gmail.com) to express you intent to join NSEF 2019 and attached the following:
  - a) Abstract for the Research Competition
  - b) Project Description only for
    - Science Investigatory Projects
    - Science and Mathematics Intervention Materials
    - Creative Lesson Plan Competition
  - c) Copy of the deposit slip of P300 pre evaluation fee
  - d) Information sheet.
- B. You will receive a feedback to inform you if you qualify for the competition. You will receive the details of the competition including the write ups needed to be submitted. Deposit the registration fees within 5 days after the confirmation.

## COLLEGE/ UNIVERSITY CATEGORY

### Scientific Research Competition

This event is open for college students from public schools ages 18-23. It is a venue for the students of the country to express and practice their acquired scientific skills by finding solutions to the societal, environmental and even community problems through scientific research.

Categories:

#### 1. Experimenting Category

This category includes the following topics:  
Behavioural & Social, Sciences, Biology,  
Chemistry, Environmental, Flora & Fauna, Food  
Science

#### 2. Engineering Category

This category includes the following topics:  
Astrophysics, Energy & Space, Physics, Electricity  
& Electronics, Inventions & Innovations, Robotics,  
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## TEACHERS CATEGORY

### Scientific Research Competition

This event is open for all basic education teachers from public and private schools. It is a venue for teachers who would like to share their research discoveries and expertise to the public for the improvement of the society, environment and lives of the human beings.

#### Categories:

#### 1. Research Competition

##### a) Experimenting Category

This category includes the following topics:  
Behavioural & Social, Sciences, Biology, Chemistry, Environmental, Flora & Fauna, Food Science

##### b) Engineering Category

This category includes the following topics:  
Astrophysics, Energy & Space, Physics, Electricity & Electronics, Inventions & Innovations, Robotics, Computer Science & Math

##### c) Multidisciplinary Category (Open Category)

This category includes research topics other than experimenting and engineering categories.

#### How to join:

- A. Email us at [nsefp1@gmail.com](mailto:nsefp1@gmail.com) to express your intent to join NSEF 2019 and attached the following:
- e) Abstract for the Research Competition
  - f) Project Description
  - g) Copy of the deposit slip of P300 pre evaluation fee
  - h) Information sheet.
- B. You will receive a feedback to inform you if you qualify for the competition. You will receive the details of the competition including the write ups needed to be submitted. Deposit the registration fees within 5 days after the confirmation.

## TEACHERS CATEGORY

### Creative Lesson Plan Competition

This contests aims to produce a repository of the creative lesson plans that will meet the needs of the 21st century learners. This will serve as a professional opportunity for the teachers in the country to have their work recognized in a bigger scale. This is open for the Filipino teachers in from private and public schools in the country and abroad including the Philippine Schools Overseas (PSO).

This event is open for the following teachers:

- Science
- Mathematics
- Research
- English

The categories are as follows:

- Elementary
- High school
- Senior High School
- Pre-service teachers (students who are taking up education courses)

#### Mechanics:

A. Based on your experience as a teacher, select a particular curriculum standard/s (in a form of competency or a performance standard) that may be presented in a creative or unique, way leading to easy understanding of the concepts and skills.

B. Create a one page lesson plan in Word Format (A4 Size, Font: Arial, Font Size of Texts: 11) and a one page activity sheet

#### LESSON PLAN TITLE

Grade Level / Subject / Strand

Objective/s:

Procedure:

National Science and Engineering Fair Philippines 2018  
Creative Lesson Plan Competition

Name:

School / City or Province

Email:

#### ACTIVITY SHEET TITLE

Procedure / Mechanics:

National Science and Engineering Fair Philippines 2018  
Creative Lesson Plan Competition

Name:

School / City or Province

Email:

C. The lesson plans will judged according to the following criteria:

- Alignment to the target curriculum standards
- Provision for effective assessment
- 21st century skills development/integration



**How to join:**

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- Project Description
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  - Information sheet.
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**TEACHERS CATEGORY**

**Strategic Intervention Material Competition**

This contests aims to produce a repository of the intervention materials for the least mastered curriculum content or skills that will meet the needs of the 21st century learners. This will serve as a professional opportunity for the teachers in the country to have their work recognized in a bigger scale. This is open for the Filipino teachers in from private and public schools in the country and abroad including the Philippine Schools Overseas (PSO).

This event is open for the following teachers:

- Science
- Mathematics
- Research
- English

The categories are as follows:

- Elementary
- High school
- Senior High School
- Pre-service teachers (students who are taking up education courses)

Mechanics:

**Mechanics:**

- Based on the existing school assessment data, identify the least mastered skill/s in a particular subject area.
- Conceptualize a solution to improve the list mastered skills and test the material/ procedure in the school.
- Email us your personal information, outputs and the copy of the deposit slip to [nsefp1@gmail.com](mailto:nsefp1@gmail.com)

**How to join:**

- A. Email us at [nsefp1@gmail.com](mailto:nsefp1@gmail.com) to express your intent to join NSEF 2019 and attached the following:
- Project Description
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**Registration Fees**

- Teachers: P2,500
- Students: P1,700
- Observers: P1,500
- Event staff: P300

Deposit the fees to:

BDO Account Name: STEM EDUC TRAINING HUB

Account Number: 006320401103

**Contact Details:**

Phone: 09989510225 / 09565167289 / 09153530454 /

09331077763 / look for Kelly or Herman

Email: [nsefp1@gmail.com](mailto:nsefp1@gmail.com) / [stemeducationhub@gmail.com](mailto:stemeducationhub@gmail.com)

Facebook Page: [facebook@stemhub31](https://www.facebook.com/stemhub31)

Website: [www.stemtrainings.com](http://www.stemtrainings.com)



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### Program Matrix

Time	Day 1 Activities			Day 2 Activities
8am-9am	Registration			-Symposia: Open to finalists and observers and the public -Meet and Greet with the Filipino Scientists Public Visitation
9am-10am	Project Set Up	STEM Activities for Students, teachers, and adult observers: Poster Making		
10am-11:30am	Project Infraction Interviews	Robotics activities Performance Task Challenge		
11:30nn-1:00pm	Noon Break			
1:00pm-2:00pm	Opening Program	Educators Academy:	Students Academy:	Public Visitation
2pm-5pm	Onsite Project Evaluation	Plenary Talks for adult observers	Plenary talks and activities for student observers	Grand Award Ceremonies
5pm-6pm		Awarding of Certificates and Awards for the		Halls open for Project Teardown
6:30 pm-9pm	Kids Mixer & Souvenir Exchange (open elementary finalists & observers)	Student Mixer & Souvenir Exchange (open for finalists & student observers)	Adult Mixers (open for teachers, adult companions, observers)	Home Sweet Home