

**VIRTUAL ROBOTICS CONTEST**  
**Theme: “Moving Forward: Robots in the New Normal”**

**Rules and Criteria**

**1. Rationale**

The Virtual Robotics Contest is a region-wide contest organized by the Department of Science and Technology-CALABARZON (DOST-CALABARZON) in partnership with Data Science and Technology Corporation (DSTC) and with the assistance of the DOST-Science Education Institute (DOST-SEI). This online contest seeks to encourage students to create and innovate a robot that solves a problem within the given theme. It also aims to spark interest among students to develop their creativity and inventiveness through appreciation of science, technology, and innovation in making possible solutions towards the new normal.

**2. Categories**

The Virtual Robotics Contest is open for **students currently enrolled in public and private schools in CALABARZON for SY 2020-2021**. It has two categories:

- 1. Junior High School (Grades 7-10)**
- 2. Senior High School (Grades 11-12)**

Students may compete **solo or as a group with a maximum of three (3) members only**. Interested participants must be a member of one (1) team only.

**3. Requirements and Mechanics**

- a. Contestants are required to submit the forms listed below at DOST-CALABARZON Regional Office located at Jamboree Road, Brgy. Timugan, Los Baños, Laguna, or send thru courier. They may also opt to email a scanned copy of the accomplished forms at **dost4robotics@gmail.com**. **Deadline of submission is on November 5, 2020, Thursday, 5PM.**
  - i. VRC Form No. 1 - Entry Form
  - ii. VRC Form No. 2 - Detailed Information / Description of Robot Innovation
  - iii. VRC Form No. 3 - Certificate of Ownership and Originality of Entry
  - iv. VRC Form No. 4 - Waiver

All the necessary forms including the waiver are attached in the **Annex Section** of this document.

- b. Robot Requirements: Contestants must develop a robot model using any robot microcontroller and parts that must be able to function/perform the task/s it is proposed to do.
- c. Video Requirements: Contestants must prepare a video featuring the proposed robot innovation and the manner it solves the problem related to the theme **“Moving Forward: Robots in the New Normal”**. Other video requirements are as follows:
- i. Length: 3 to 5 minutes
  - ii. Dimension: 1280px x 720px (landscape format) or 16:9 aspect ratio
  - iii. The video may come in various forms or combinations of dramatization, interviews, vlog, information broadcasting, etc. It can also use additional elements such as cinematic special effects application, musical background, and sound effects provided that the contestant will secure copyright permissions and acknowledge/cite sources used in the video.
- d. Each team is allowed to submit one entry only. The video must be uploaded in Youtube strictly following the requirements/items below found in Youtube uploading settings:
- i. Details
    - Title Format – Entry/Robot Project Title – School Name – Year Level (Example: “PhotoBot – Calabarzon High School – Junior High”)
    - Description – 1-2 paragraph/s description about your robot project
    - Tags – must include ‘robotics’, ‘contest’, ‘new normal’
    - Category – select “Science and Technology”
    - Comments visibility – select “Disable comments”
  - ii. Visibility – Select Save or Publish and choose Unlisted

Copy the video URL in the VRC Form No. 01 (Entry Form). **Deadline of submission is also on November 5, 2020, Thursday, 5PM.**

- e. DOST-CALABARZON, DOST-SEI, and DSTC will pre-screen and evaluate the completeness of the accomplished forms and quality of the video presentations submitted by the applicants. Entries that passed the screening process will move to the elimination round of the contest proper.
- f. For the elimination round, the screened entries will be evaluated by the judges based on the criteria. The Top Five (5) robot models will advance to the final round where an online presentation and evaluation will be held. Contestants who qualified for the final round will be posted at DOST-CALABARZON Facebook page and shall be notified by DOST-CALABARZON organizing team on November 13, 2020.

- g. For the final round, the Top 5 qualifiers will present their robot project to the panel of judges using any appropriate media (can be a mix of live demonstration, presentation slides, videos, audio, and manual narration). Each team will be given five (5) minutes to present their robot project with only one (1) presenter. A 5-minute Question and Answer will follow after the presentation. Each question during the Q&A portion must also be answered by one (1) team member only.
- h. The video presentations of the Top 5 qualifiers will be uploaded at DOST-CALABARZON Facebook page on November 13, 2020 for dissemination and voting for People Choice's Award. The voting period will be from November 13 to November 19, 1PM only. The video entry from each category with the highest number of likes/reactions and shares from the official Facebook page post will receive the award.
- i. All qualified contestants shall authorize DOST-CALABARZON, DOST-SEI, and DSTC to publicize their work for dissemination to the public and to possible interested parties through the official Facebook page and other media utilized by the organizing committee for information dissemination and educational purposes related to robotics. The organizing committee shall ensure that proper credits are given to the contestants.

#### 4. Judging and Criteria

- a. For the elimination round, the judging shall be based on the following criteria:
  - i. Relevance to the theme – 25%
    - *Clarity of message (problem, solution) – 5%*
    - *Complexity of the problem and task – 10%*
    - *Props, background, and manner of message delivery – 10%*
  - ii. Robot Technical Set-up – 50%
    - *Demonstration / Robot Technical Performance on video – 25%*
    - *Programming Codes – 25%*
  - iii. Video Quality – 25%
    - *Storyline – 10%*
    - *Cinematic entertainment – 15%*
- b. For the final round, 70% will be taken from the score on the elimination round while the remaining 30% will be graded during the online presentation which is composed of the following criteria:
  - i. Mastery of content – 8%
  - ii. Effectiveness of presentation skills/delivery – 8%
  - iii. Organization of presentation – 5%
  - iv. Response in Q&A – 10%

- c. The decision of the Board of Judges shall be final and irrevocable. The final score of the winners will be announced during the awarding. Any part of the scorecards or rating sheets are not for public scrutiny and shall not be given to any contestant or requesting party.

**5. Schedule of Activities**

Below is the timeline of activities from submission of entries to the final contest proper:

<b>Date</b>	<b>Activity</b>
September 21	Call for Entries
October 1 – November 5	Acceptance/Submission of Entries
November 9 – 12	Evaluation of Submitted Entries (Elimination Round)
November 13	Announcement of Top 5 Qualifiers
November 13 – 19	Voting for People’s Choice Award
November 18	Online Presentation and Evaluation of Top 5 Qualifiers (Final Round)
November 20	Announcement and Awarding of Top 3 Winners and Recipients of Special Awards

**6. Announcement of Winners / Awarding of Prizes**

- a. Three winners shall be selected per category. In case of tie, the Board of Judges shall break the tie and declare only three winners.
- b. The Top 3 winners shall receive the following prizes during the Awarding Ceremony:

<b>JUNIOR HIGH SCHOOL LEVEL</b>	
First Prize	Php 10,000 + Robot Kit + Trophy
Second Prize	Php 8,000 + Trophy
Third Prize	Php 5,000 + Trophy
<b>SENIOR HIGH SCHOOL LEVEL</b>	
First Prize	Php 10,000 + Robot Kit + Trophy
Second Prize	Php 8,000 + Trophy
Third Prize	Php 5,000 + Trophy

- c. The following special awards will receive a trophy as well:
  - i. People’s Choice Award – The winner will be the contestant’s video entry with the highest number of likes/reactions and shares from the official Facebook page post. (1 winner from Junior High Level, 1 winner from Senior High Level)
  - ii. Director’s Choice Award – The winner will be selected by DOST-CALABARZON’s regional director
  - iii. Best in Robot Innovation – The winner will be based on the goodness of the quality of the robot’s program and technical details

**Virtual Robotics Contest: “Moving Forward: Robots in the New Normal”  
ENTRY FORM**

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**1. CATEGORY (Please Check):**

Junior High School

Senior High School

**2. CONTESTANT DETAILS:**

Name	Age	Year Level	Home Address	Mobile No. and Email Address

**3. NAME OF SCHOOL AND ADDRESS:**

School Name: \_\_\_\_\_

School Address: \_\_\_\_\_

**4. TITLE OF ENTRY / ROBOT PROJECT:** \_\_\_\_\_  
\_\_\_\_\_

**5. URL OF VIDEO ENTRY:** \_\_\_\_\_

**6. Has the entry been part of any contest before?**     YES     NO  
If yes, where? \_\_\_\_\_ when? \_\_\_\_\_

**7. Has the entry won any major prize in the past?**     YES     NO  
If yes, please specify: \_\_\_\_\_

**I / WE HEREBY CERTIFY** that the answers given above are true and correct to the best of our knowledge and belief. Any fraudulent information provided will be a ground for disqualification or withdrawal of the award.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Printed Name and Signature of Contestant/s\*

*\*For group participants, all members must sign.*



**Virtual Robotics Contest: “Moving Forward: Robots in the New Normal”**  
**DETAILED ENTRY DESCRIPTION**

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**1. Title of Entry / Robot Project:**

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**2. How the robot project works? Please explain the mechanism behind your robot project and how it can help in the new normal setting?**

**3. List down and provide description of materials and resources used in the robot project.**

<b>MATERIALS USED</b>	<b>DESCRIPTION (List down all used materials. Indicate model and key technical specifications)</b>
<b>a. Microcontroller/s</b>	
<b>b. Sensor/s</b>	
<b>c. Motor/s</b>	
<b>d. Batteries</b>	
<b>e. Chassis and other Robot Accessories</b>	
<b>f. Programming Platform / Application</b>	
<b>g. Other materials used</b>	

**Please provide a sketch of the robot and identify location of each robot part (items A to D)**

**Please paste screenshots or re-type the codes used to program the microcontroller/s.**



**4. Sample Images of Entry (*Add additional page if necessary*)**

A large, empty rectangular box with a thin black border, occupying most of the page below the section header. It is intended for the user to provide sample images of their entry.

**Virtual Robotics Contest: “Moving Forward: Robots in the New Normal”  
CERTIFICATION**

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**KNOWN ALL MEN BY THESE PRESENTS:**

That I / We, \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

contestant/s in the DOST-CALABARZON’s Virtual Robotics Contest under the \_\_\_\_\_ Category,  
with the entry titled \_\_\_\_\_  
hereby certify that our entry is our own, and it is new and original, to the best of our knowledge.

**IN WITNESS WHEREOF**, I / We have hereunto set our hands on this \_\_\_\_ day of \_\_\_\_\_, 2020  
at \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Printed Name and Signature of Contestant/s\*

*\*For group participants, all members must sign.*

**Virtual Robotics Contest: “Moving Forward: Robots in the New Normal”  
WAIVER**

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**KNOWN ALL MEN BY THESE PRESENTS:**

That I / We, \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

contestant/s in the DOST-CALABARZON’s Virtual Robotics Contest under the \_\_\_\_\_ Category,  
with the entry titled \_\_\_\_\_  
hereby attest that I / we am / are aware of all the rules and regulations set forth in this contest.

By virtue, hereof, I / we shall abide by the decision of the Board of Judges and hereby waive whatever cause of action which I / we have or may have hereafter against the members of the Board of Judges, DOST-CALABARZON, DOST-SEI, DSTC, and the organizing committee, that may arise from or relative to the conduct and the results of the contest.

Furthermore, I / we authorize DOST-CALABARZON, DOST-SEI, and DSTC to disseminate information about the robot project to the public, so that any person or institution may replicate and use it for information dissemination, educational purposes related to robotics, and except for commercial purposes.

**IN WITNESS WHEREOF**, I / We have hereunto set our hands on this \_\_\_ day of \_\_\_\_\_, 2020  
at \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Printed Name and Signature of Contestant/s\*

*\*For group participants, all members must sign.*