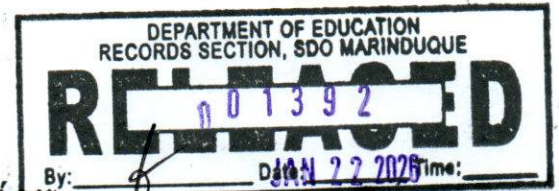




Republic of the Philippines  
**Department of Education**  
MIMAROPA REGION  
SCHOOLS DIVISION OF MARINDUQUE



Office of the Schools Division Superintendent

**Division Advisory**  
**January 21, 2026**

In compliance with DepEd Order (DO) No. 8, s. 2013, this Advisory is issued not for endorsement per DO 28, s. 2001, but only for information of DepEd Officials, personnel, staff, as well as the concerned public.

**MACHINE DESIGN SUMMIT 2026: EMPOWERING LOCAL INDUSTRIES  
THROUGH INNOVATION**

Please find attached DepEd Advisory No. 234, s. 2025 and communication from the UP Gears and Pinions Inc. inviting the Secondary School Students to engage in various design challenges, such as competitions, workshops, and conferences geared towards enhancing their skills and knowledge in design and innovation.

For more information, interested participants may contact Mr. Ron Darrell De Borja through his CP no. 09358587976 and email add: rideborja@up.edu.ph

Participation is voluntary and must comply with a time-on-task policy subject to the approval of the Schools Division Superintendent.





Records Sdo Marinduque &lt;records.sdomarinduque@deped.gov.ph&gt;

**Machine Design Summit 2026 Request for Endorsement**

1 message

**machinedesignsummit@gmail.com** <machinedesignsummit@gmail.com>  
To: records.sdomarinduque@deped.gov.ph

Tue, Jan 13, 2026 at 9:52 AM



Greetings, **LYNN G. MENDOZA!**

The UP Gears and Pinions Inc. is holding its annual flagship event, the **Machine Design Summit 2026: Empowering Local Industries through Innovation** on **February 20-21, 2026**. In this tenth iteration, the event aims to highlight the essence of teamwork and interdisciplinary collaboration in machine design, underscoring how different fields work hand-in-hand in tackling real-world problems and developing innovative solutions.

Last November 24, 2025, the **Department of Education (DepEd)** issued an Advisory (Advisory No. 234, s. 2025) regarding MDS 2026. The document reflects the adherence of the competition to the standards and goals set by the DepEd.

In line with this, we would like to humbly request your assistance in sending invitations to various schools under your good office. We believe that your help in this matter will help us achieve our collective goals of serving the Filipino students of the future.

Attached are pertinent documents which you can disseminate. Alternate links for event registration can also be found below.

[Inter-High]: [Machine Design Summit 2026: High School Registration Form](#)

[WORKSHOP]: [Machine Design Summit 2026: Workshop Registration Form](#)

Thank you very much!

For more information, kindly refer to the **MDS 2026 Primer** and **DepEd Advisory No. 234, s. 2025** attached to this email. You may like and follow our **Machine Design Summit FB Page** for further updates and announcements.

Should you have any inquiries, please do not hesitate to contact us through the details below.

Always in pursuit of learning,



**Ron Darrell De Borja**

School Affairs Team, UP Gears and Pinions Inc.

0935-858-7976 | [rideborja@up.edu.ph](mailto:rideborja@up.edu.ph)





**UP GEARS AND PINIONS INC.**



**MDSO**  
**2026**

# **MACHINE DESIGN SUMMIT 2026**

*Empowering Local Industries through Innovation and Design*  
**CELEBRATING 10 YEARS OF EXCELLENCE**

# ABOUT



## UP GEARS AND PINIONS INC.

UP Gears and Pinions Inc. stands as the registered **legal entity** representing the **premier Mechanical Engineering organization** in **UP Diliman**. Upholding a legacy of excellence that began in 1955, the corporation is dedicated to **cultivating and exemplifying leadership, innovation, and service** within the student community.

Driven by this commitment, UP Gears and Pinions Inc. proudly presents the continued iterations of the organization's flagship events: **RevUP! The Diliman Motorshow**, which invites automotive enthusiasts to witness a spectrum of cutting-edge vehicles, and the **Machine Design Summit**, a series of events introducing the marvels of machine design to eager students. Through these platforms, the corporation ensures that the tradition of nurturing well-rounded individuals capable of becoming versatile engineers in the future continues to thrive.



The **Machine Design Summit (MDS)** is an annual event organized by the UP Gears and Pinions, gathering students from high schools, colleges, and universities nationwide to engage in various design challenges. The summit allows participants to immerse themselves in the field of mechanical engineering through a series of **competitions, workshops, and conferences** geared towards enhancing their skills and knowledge in design and innovation. The key segments of the event include the **(1) Inter-High, (2) Inter-U, (3) Workshop, and (4) the newly-added Quiz Bee.**

This year, MDS marks its tenth iteration with the theme **"Empowering Local Industries through Innovation."** The summit will highlight how mechanical engineering and machine design spark innovative solutions for local industry advancement and a better future of the nation. MDS 2026 will provide a platform to impart holistic and valuable knowledge in machine design on participants from different schools and universities.



**INTER-HIGH**



**INTER-U**



**WORKSHOP**



**QUIZ BEE**

# LAST YEAR'S ACCOMPLISHMENTS

Over the years, the Machine Design Summit has consistently achieved its goals and objectives through the four major events. Illustrated below are some of the highlights from last year's iteration:



## INTER-HIGH

Proposal of effective innovational solutions to reduce flood risks in vulnerable communities

## 18 TEAMS WITH 80 PARTICIPANTS

in total (10 teams advanced to the final stage)



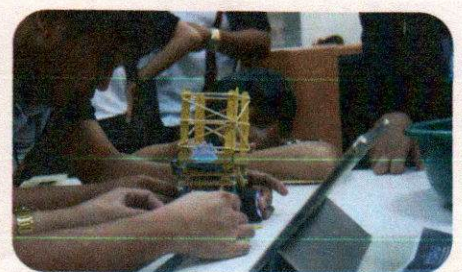
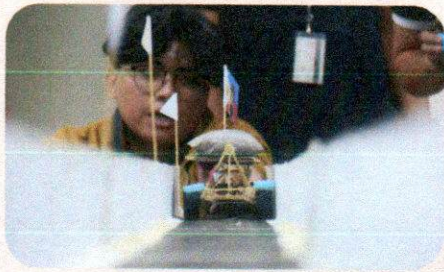
# LAST YEAR'S ACCOMPLISHMENTS

## INTER-U

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Creation of strong cars from recyclable materials that are able to withstand weight while maintaining speed and stability.

**12 TEAMS WITH 59 PARTICIPANTS IN TOTAL**

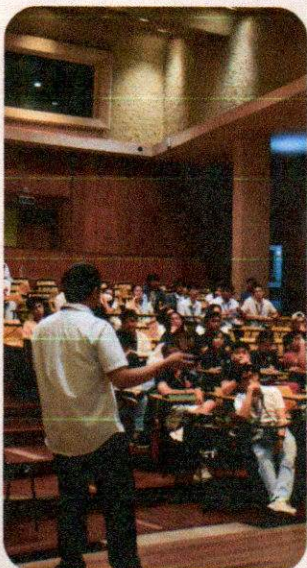


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## BDR

Live talks of esteemed guests on their fields of expertise

**43 ATTENDEES**

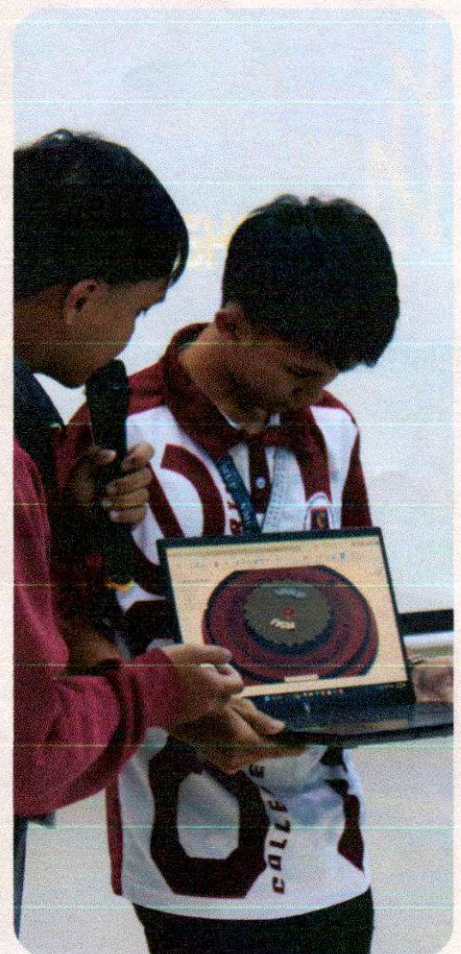
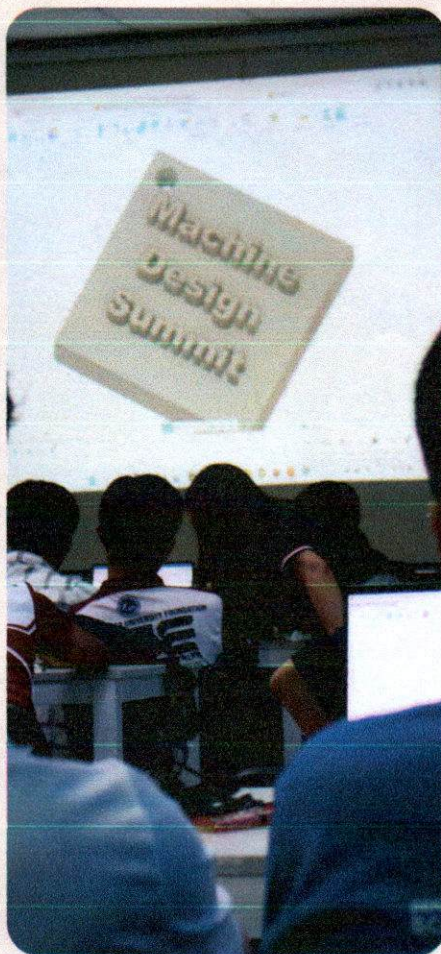
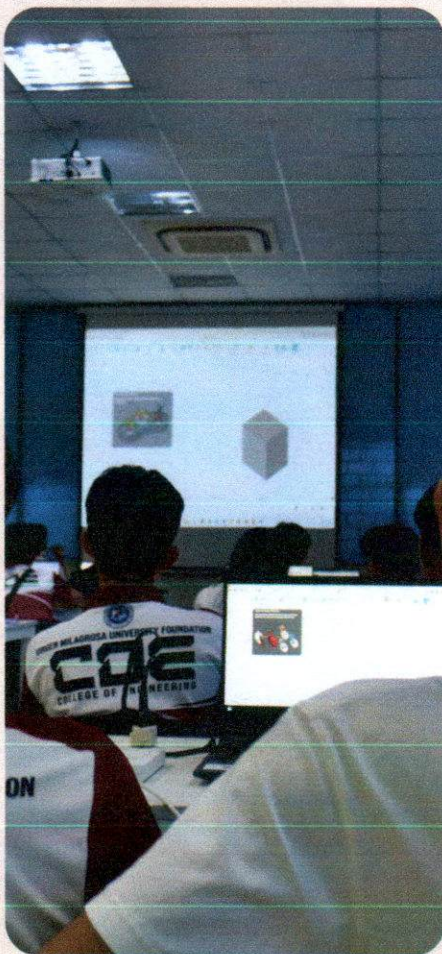


# LAST YEAR'S ACCOMPLISHMENTS

## WORKSHOP

Discussed and provided hands-on skills product designing, focusing on Computer-Aided Design (CAD)

35 PARTICIPANTS



# **IMPORTANT DATES TO REMEMBER FOR HIGH SCHOOL STUDENTS**

**EARLY BIRD REGISTRATION  
DECEMBER 11, 2025 - DECEMBER 22, 2025**

**INTER-HIGH REGISTRATION PERIOD  
DECEMBER 23, 2025 - JANUARY 15, 2026**

**GENERAL REGISTRATION PERIOD  
DECEMBER 23, 2025 - UNTIL NO SLOTS LEFT**

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**INTER-HIGH PRE-FINALS DEADLINE**

**JANUARY 24, 2026**

**INTER-HIGH FINALS DEADLINE  
FEBRUARY 18, 2026**

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**MDS 2026 DAY 1: WORKSHOP  
FEBRUARY 20, 2026**

**MDS 2026 DAY 2: INTER-HIGH  
FEBRUARY 21, 2026**

# **REGISTRATION FORMS**

## **INTER-HIGH**

**[BIT.LY/MDSINTER-HIGH2026](https://bit.ly/MDSINTER-HIGH2026)**

## **WORKSHOP**

**[BIT.LY/MDSWORKSHOP2026](https://bit.ly/MDSWORKSHOP2026)**

# REGISTRATION FEE

Avail the registration fees at discounted rates through the **early bird promo** that runs until **December 22, 2025**. Register now!

EVENT	REGULAR RATE	EARLY BIRD RATE
INTER-HIGH	PHP 1500.00	PHP 1300.00
WORKSHOP	PHP 200.00/REGISTRANT PHP 500.00/GROUP (GROUPS OF 3)	PHP 175.00/REGISTRANT PHP 450.00/GROUP (GROUPS OF 3)

**Note:** We will strictly implement a **No Refund Policy**. Please ensure that you are eligible for the event you are registering for.

## PAYMENT CHANNELS

### BDO

Account Holder: Janelle Marie  
Marasigan  
Account Number: **0053 2029 9762**

### GCASH

Account Holder: Janelle Marie  
Marasigan  
Account Number: **0927 652 5641**

### Maya

Account Holder: Janelle Marie  
Marasigan  
Account Number: **0927 652 5641**

### MariBank

Account Holder: Janelle Marie  
Marasigan  
Account Number: **1182 5517 806**

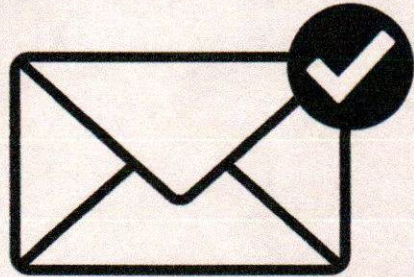
**Reminder:** The proof of payment must be uploaded in the registration form to confirm your participation in the summit.

# PARTICIPANT LIMIT

Each event can only accommodate a specific number of teams or participants on a **FIRST-COME, FIRST-SERVED BASIS,** as detailed below.

Event	Maximum Number
Inter-High	No Limit
Workshop	60-80 Participants

## CONFIRMATION OF REGISTRATION



Registrants will only be considered as **official participants** of **MDS 2026** once their registration is **confirmed via email**.

Specific event guidelines will be sent to the participants or team representatives through their provided email addresses.



# INTER-HIGH

## "TILL, LIL' ENG'G! INTEGRATING MECHANIZATION IN THE RICE INDUSTRY"

Inter-High is a competition that allows high school students to showcase their creativity and knowledge by designing innovative post-harvest mechanization solutions in the drying stage of rice production to help alleviate food insecurity in the Philippines.

The task is to reimagine traditional post-harvest practices in the country by developing simple yet effective innovations that integrate mechanical and electrical components to enhance the efficiency, sustainability, and productivity of rice production systems.

This year's iteration challenges the participants to design a machine that will address the existing problems in the rice industry, specifically by reducing the yield loss in the drying operations of rice production within the country.

# **INTER-HIGH MECHANICS**

## **TEAM COMPOSITION**

- Each team shall be composed of three members.
- Maximum of two teams per school.
- Teams can either be composed of Junior High School students, Senior High School Students, or both.
- Teams may be accompanied by only one adviser during the competition.

## **PRE-FINALS**

- The output will be the following:
  - A 1-page (A0 - 33.1 x 46.8 inches) portrait orientation infographic presenting the design and its important details. The design may be in the form of a 3D model or sketch.
  - Snapshots of pertinent views of your design. No specific views will be asked. Feel free to submit snapshots you deem relevant to the judging process.
    - Submitted views must be compiled in one PDF with a maximum of 10 snapshots. Strictly no annotations and explanations.
  - Bill of Materials following the provided template by the Inter-High team. This shall be used for costing references as the judges evaluate your output.
- The participants may opt to include a QR code in the infographic should they choose to present an audio-visual presentation for their design.
- Submissions will end on January 24, 2026, at 12:00 pm. These will be judged accordingly by a panel of judges once the idea primers have been submitted.
- The top 10 finalists will be announced through the Machine Design Summit Facebook page on February 06, 2026.

# **INTER-HIGH MECHANICS**

## **FINALS**

- The finalists will receive feedback for their initial output. These teams will be given fifteen (15) days to revise and finalize their outputs for their presentation.
- The qualified finalists will submit their final infographic on or before February 13, 2026 11:59 p.m. to the Inter-High email: [mds.interhigh@gmail.com](mailto:mds.interhigh@gmail.com) and present their solutions to a panel of judges on February 21, 2026 in UP Diliman.
- The presentations of the Top 10 will be held from 8:00 a.m. to 12:00 p.m.
- Each team will be given a maximum of 5 minutes to present their solutions. The finalists may create a 3D model and/or a prototype to aid them in their final presentation.
- All members of the team **MUST** be present during the presentation. If there are any concerns regarding your presentation schedule, please email us at [mds.interhigh@gmail.com](mailto:mds.interhigh@gmail.com) as soon as possible.
- After the presentation, the judges may ask questions and probe the solutions presented by the finalists. Finalists are expected to defend their ideas accordingly.
- The top 3 winners will be announced on the same day at the MDS Culmination.

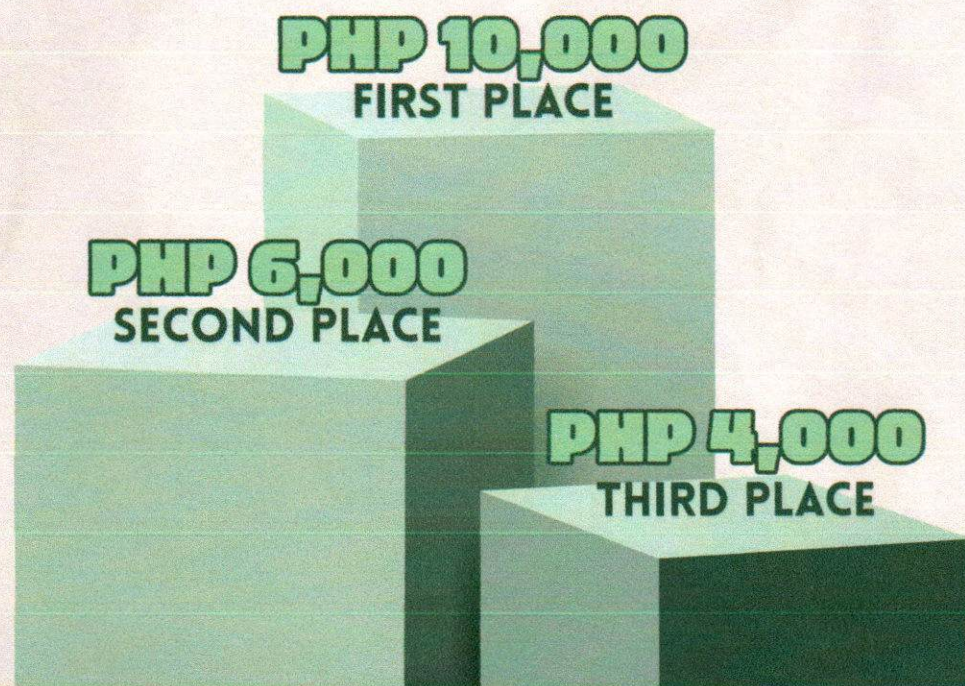
# CRITERIA FOR JUDGING

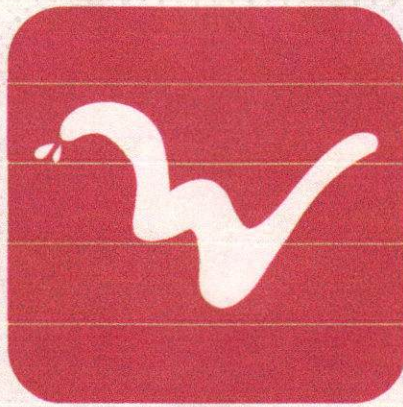
The participants' outputs shall be judged based on the following sets of criteria:

PRE-FINALS CRITERIA		FINALS CRITERIA	
Problem Statement	10%	Social Impact	5%
Visual Appeal	10%	Design Cost	5%
Feasibility and Replicability	20%	Pitch Presentation	25%
Infographic Content	25%	Design Specifications	30%
Overall Product Design	35%	Feasibility and Viability	35%

## PRIZES

The top three teams will receive the following cash prizes, along with a certificate with the names of the team members:





# WORKSHOP

## "PRECISION UNDER PRESSURE: EXPLORING PNEUMATICS IN INDUSTRY 4.0"

Workshop is an interactive upskilling platform that allows participants to gain new or hone existing skills. Creating an opportunity to foster creativity, critical thinking, problem solving skills, and technical expertise. From learning the basics of such skills to gaining insights on its practicality, ultimately equipping participants with the aptitude of the crafts for you to take and develop in the future.

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# **WORKSHOP** **WHAT'S NEW?**

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This year's workshop will explore the fundamental principles of Pneumatics and Electro-Pneumatics systems, dwelling on operation, maintenance and repair of various systems found in today's industry while empowering participants with the knowledge and skills of Mechatronics and Automation Technology. Attendees will have hands-on experience with Industrial Maintenance, Troubleshooting, and Safety Assurance, under the guidance of our facilitators and experienced instructor. Encouraging participants to value and apply the skills for their personal and professional growth.

# REQUIREMENTS

1. BRING YOUR OWN LAPTOP, IF POSSIBLE

# PROGRAM

MDS 2026 WORKSHOP PROGRAM	
Program	Duration
Opening Remarks	1:00-1:05
Lecture <ul style="list-style-type: none"><li>• Pneumatic</li><li>• Electro-Pneumatic Control Systems</li></ul>	1:05-2:50
Hands-on activity <ul style="list-style-type: none"><li>• Safe Maintenance</li><li>• Repair Procedure of Electro-Pneumatic Control System</li></ul>	2:50-4:05
Q&A portion	4:05-4:50
Closing Remarks	4:50-5:00

# CONTACT US

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## SOCIALS

 @upgearsandpinions

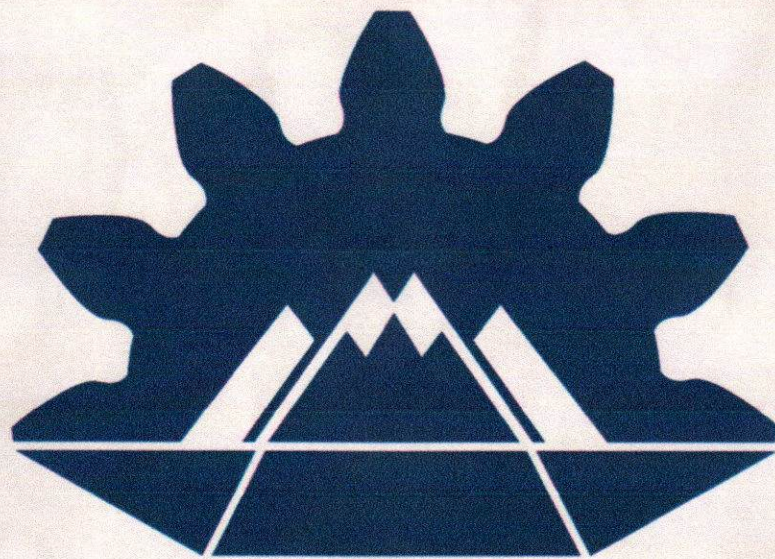
 @upgearsandpinions

 linkedin.com/upgearsandpinions

 @aylabdyipis

 Machine Design Summit

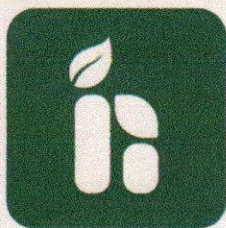
 machinedesignsummit@gmail.com



**MDS**  
**2026**

# **MACHINE DESIGN SUMMIT 2026**

*Empowering Local Industries through Innovation and Design*  
**CELEBRATING 10 YEARS OF EXCELLENCE**



**INTER-HIGH**



**INTER-U**



**WORKSHOP**



**QUIZ BEE**

Advisory No. **234**, s. 2025

November 24, 2025

In compliance with DepEd Order (DO) No. 8, s. 2013  
this advisory is issued not for endorsement per DO 28, s. 2001,  
but only for the information of DepEd officials,  
personnel/staff, as well as the concerned public.  
(Visit [www.deped.gov.ph](http://www.deped.gov.ph))

### MACHINE DESIGN SUMMIT 2026

The University of the Philippines Gears and Pinions (UP GPs) will be hosting its 10th Machine Design Summit (MDS) 2026 on February 20–21, 2026. This month-long event will feature competitions, workshops, and conferences geared towards developing a holistic understanding and appreciation of mechanical engineering. During this Summit, high school learners can participate in inter-high school competitions and hands-on workshops.

With the theme, Empowering Local Industries Through Innovation, the Summit will highlight how mechanical engineering and machine design spark innovative solutions for local industry advancement and a better future for the nation. MDS 2026 will provide a platform to impart holistic and valuable knowledge in machine design to participants from different schools and universities.

The Inter-High Competition will be an opportunity to showcase both their creativity and knowledge in designing innovative post-harvest mechanization solutions in the drying stage of rice production to help alleviate food insecurity in the Philippines. To register, visit <https://forms.gle/5tV45C6QpnuQUUpB9>.

For the Workshop, the organization will discuss and provide hands-on skills on product designing and Computer-Aided Design (CAD). To register for this event, visit <https://forms.gle/hBKWacNKxfJ1zVqM>.

Registration for MDS is open from December 5, 2025, to January 8, 2026, or until all slots are filled out for the sub-events.

Participation of learners and teachers from public and private schools shall be purely voluntary and will not hamper instructional time in compliance with the provisions of DepEd Order (DO) No. 012, s. 2025, titled Multi-Year Implementing Guidelines on the School Calendar and Activities and DO 9, s. 2005 titled Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith and the policy on off-campus activities stated in DO 66, s. 2017.

This is also subject to the no-collection policy as stated in Section 3 of Republic Act No. 5546 also known as An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities (Ganzon Law), issued in DO 19, s. 2008, and reiterated in DepEd Memorandum No. 041, s. 2024.

For more information, please contact

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Machine Design Summit 2026 School Affairs Co-Head  
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Email Address: [machinedesignsummit@gmail.com](mailto:machinedesignsummit@gmail.com)  
Facebook Page: [facebook.com/MachineDesignSummit](https://facebook.com/MachineDesignSummit)