



Republic of the Philippines
Department of Education
REGION XI
SCHOOLS DIVISION OF DIGOS CITY

Office of the Schools Division Superintendent

DIVISION MEMORANDUM

CID-2024- 120

To : Public Schools District Supervisors
School Heads/Principals/Administrators
Public and Private Senior High Schools

Subject : **ENGINEERING DISCOVERY DAY 2024**

Date : April 8, 2024

Herewith is a letter from Engr. Lester Dave L. Pelias, ME-CpE, Associate Dean, College of Engineering, Lyceum of the Philippines – Davao, inviting Senior High School STEM students to participate to the Engineering Discovery Day 2024, which features MLBB and Robotics Competitions.

This Office informs the field that the participation of teachers and learners is on voluntary basis, no government funds shall be involved and subject to the policy on “No Disruption of Classes” per DepEd Order No. 9, s. 2005 entitled “Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith.”.

Other details of the activity are in the enclosures.

For information, and guidance of the Schools.

For and in the absence of
Schools Division Superintendent

MARIA GENEVIEVE T. FRANCISQUETE, CESO VI
Asst. Schools Division Superintendent
Officer-In-Charge

Enclosed: As stated.

CID/lbj

DepEd Schools Division of Digos City
RECORDS SECTION
RELEASED
DATE: APR 17 2024 TIME: 8:20am
BY: [Signature]



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LYCEUM OF THE PHILIPPINES – DAVAO

LPU Drive, Km 11, C. P. Garcia Highway, Sasa, Davao City
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College of Engineering

March 25, 2024

Melanie P. Estacio, CESO VI
Schools Division Superintendent
Digos City, Davao del Sur

119589
10:41
25 M. 2024

Dear Dr. Estacio,

Veritas Et Fortitudo, Pro Deo Et Patria!

In the ever-evolving landscape of technological marvels, the Lyceum of the Philippines Davao (LPU-Davao) College of Engineering (COE) is thrilled to extend an invitation to you for a collaborative venture at our upcoming **Engineering Discovery Day 2024**. This groundbreaking event is tailored to provide senior high school students with a unique opportunity to explore the exciting world of engineering and technology.

The event aims the following objectives:

- **Informative Exploration:** The primary goal of the Engineering Discovery Day 2024 is to acquaint senior high school students with the diverse opportunities available in the field of engineering. Through detailed presentations and interactive sessions, participants will gain a profound understanding of each program's scope, curriculum, and potential career paths.
- **Hands-on Experience:** The event seeks to bridge the gap between theory and practice by incorporating engaging activities. Workshops and demonstrations will allow students to experience firsthand the cutting-edge technologies and methodologies employed in the College of Engineering's programs.
- **Competition in Robotics and E-Sports:** To infuse an element of excitement and friendly competition, the event will host two stimulating competitions – one in robotics and another in e-sports featuring Mobile Legends: Bang Bang (MLBB). These competitions aim to showcase the participants' creativity, problem-solving skills, and teamwork, fostering a sense of camaraderie while highlighting the practical applications of technology.

This activity will invite students from different schools and colleges to participate in the event. The team of students should be composed of SHS Grade 12 STEM students. This activity will initiate discipline and appreciation towards students' engagement in mobile games and robotics, where mobile games are identified as E-sports in this generation.

In connection, we would like to invite schools in Davao City to send participants to the **Engineering Discovery Day 2024**, featuring **MLBB**, and **Robotics Competitions**. Each school may send up to *15 students to attend the seminar*, with *5 students allocated for the MLBB competition*, *2 students for the Robotics competition*, and *one Coordinator*. The MLBB Tournament requires a registration fee of **P500.00** per team, while participation in the Robotics competitions and seminars is **free of charge**.

Attached are the Tournament/Game rules and guidelines.

The champion will win **P10,000.00**, and the first runner-up will receive **P3,500.00**. All participants have a chance to win exciting prizes from our industry partners.



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Steps to Register Participants:

1. You can send the payment through GCash – 09322423769 (*Lester Dave L. Pelias*).
2. Register the participants through this link: <https://forms.office.com/r/jMZCOVYHL3>
Or fill up the form and send through email: enggdiscoveryday2024@lpudavao.edu.ph
3. Wait for the confirmation email for the receipt of your registration.
4. Submit your entry on or before **April 24, 2024**.

Program Flow:

Events:	Seminar	Robotics	MLBB
7:00 AM	Registration		
8:00 AM	Talks from Industry Partners, Program Orientation, and Presentation. <ul style="list-style-type: none"> ➤ Immersion to Employment (IZE) program ➤ Emerging Technologies in Engineering ➤ Opportunities in the Aviation Industries ➤ Micro:bit/Robotics Raffle: Minor Prizes	Workshop	Elimination Round
12:00 NN	Lunch Break		
1:00 PM	Championship Game		
4:00 PM	Awarding Raffle: Major Prizes		

In line with this event, the LPU-Davao COE would like to ask for your support for this one-day event. Your endorsement to various public and private schools in the region will reach potential students who are interested in E-sports and can participate in this face-to-face Engineering Discovery Day 2024.

For any questions and clarifications please coordinate with my office. You may reach out to through lester.pelias@lpudavao.edu.ph and 09688515991 / (082) 228 5783 loc. 225 .

Sincerely,

Engr. Lester Dave L. Pelias, ME-CpE
Associate Dean, College of Engineering



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ENGINEERING DISCOVERY DAY 2024 REGISTRATION FORM

School:	
Address:	
Coordinator's Name:	
Contact No.:	
Email Address:	

Participants for the Seminar:

	Student's Name (<i>Lastname, Firstname, MI</i>) Please ensure that the spelling is correct, as it will be reflected on the certificate of participation.	Grade - Section
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

Participants for the Robotics Competition:

	Student's Name (<i>Lastname, Firstname, MI</i>) Please ensure that the spelling is correct, as it will be reflected on the certificate of participation.	Grade - Section
1.		
2.		



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ENGINEERING DISCOVERY DAY 2024 REGISTRATION FORM

School:	
Address:	
Coordinator's Name:	
Contact No.:	
Email Address:	

Participants for the MLBB Tournament:

	Student's Name (<i>Lastname, Firstname, MI</i>) Please ensure that the spelling is correct, as it will be reflected on the certificate of participation.	Grade - Section
1.		
2.		
3.		
4.		
5.		



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ENGINEERING DISCOVERY DAY 2024

Mobile Legends: Bang Bang (Mechanics)

Dive into the thrill of strategy and competition with our Mobile Legends Tournament! Unleash your gaming prowess, collaborate with teammates, and showcase your strategic finesse. Join this tournament for an exhilarating experience that goes beyond gaming, promoting teamwork, healthy competition, and technological proficiency. Elevate your esports journey and be part of the excitement!

Objectives:

- Cultivate collaboration and teamwork skills among students.
- Enhance strategic thinking and decision-making in a gaming context.
- Promote healthy competition and sportsmanship among participants.
- Improve technological proficiency through engagement in mobile gaming.
- Facilitate social interaction and community building among students.
- Acknowledge esports as a valid extracurricular activity.
- Provide an engaging platform for student entertainment.
- Offer opportunities for leadership showcase within teams.
- Enhance institutional visibility through gaming events.
- Illustrate the development of transferable skills through gaming participation.

Registration Fee: P500.00

Members per team: 5 students

Maximum number of teams: 2 per school

Tournament Rules:

1. Each participating school can send up to 2 teams.
2. The participating school must send a Tournament Coordinator together with the players during the match.
3. Each contestant can only battle for one team/ squad in total, only for the squad stated at the time of registration.
4. A player cannot change team part way through tournament and cannot play for two squads at the same time.
5. Once registration ends, the official Engineering Discovery Day (EDD) committee will make a post announcing the first-round matchups and match times.
6. Match ups between participating teams will be scheduled ahead before the tournament by the EDD committee which the team's match up will not be disclosed before the event.
7. The participants are asked to follow house rules which are implemented by the LPU-Davao.
8. The participants are required to secure their data connection during the battle.
9. The best 2 teams who will join the final round will be declared the champion and the first placer, which will be determined on their one-on-one play offs.
10. There are no restrictions on account level, heroes or skins used.



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GAME RULES:

1. Teams are expected to be on the game stage and in the game lobby at the designated time. There is a maximum 10-minute waiting period.
2. Players are expected to conduct themselves and compete with the spirit of sportsmanship, maintaining a friendly and polite demeanor in activities involving other participants and public general.
3. If one team is not ready at the designated time, their opponent is awarded a default win by contacting an admin (after the 10-minute waiting period) and having him check the lobby.
4. Both sides should ensure that the network connection and devices will function normally during the battle and try to battle under strong internet conditions as well as with enough power. In the case where any contestants are disconnected or drop out during battle, the battle cannot be restarted. If any player disconnects during a match, the game continues. The disconnected players are required to reconnect as soon as possible.
5. The team to destroy the opposing team's base wins.

Prizes:

Champion: **P 10,000.00**

First Place: **P 3,500.00**

Steps in payment:

- You can send your payment through GCash - 09322423769 (Lester Dave Pelias)
- Screen shot your payment slip and send it through enggdiscoveryday2024@lpudavao.edu.ph
- Wait for the confirmation email for the receipt of your registration.



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Engineering Discovery Day 2024

Robotics Competition (Line-Following)

(Mechanics)

The primary objective of the Line Following Robotics Competition is to determine the fastest robot designed by Grade 12 STEM students that can effectively solve a given line-following puzzle. The competition aims to promote problem-solving skills, teamwork, and innovation among Grade 12 STEM students. Participants are encouraged to showcase creativity and efficiency in their robot designs.

Team Composition:

Each team consists of two members, both Grade 12 STEM students. Additionally, there must be one coordinator per team.

Workshop and Competition Schedule:

The workshop will be conducted in the morning by the organizing committee. All participating teams must attend this workshop.

The competition will take place in the afternoon immediately following the workshop.

Entry Submission:

All participating teams must submit their robot entry on or before the specified deadline. The organizing committee will provide all necessary materials for the construction of the robots.

Competition Mechanics:

1. Line Following Puzzle:

- A designated line-following puzzle will be provided by the organizing committee.
- The puzzle will consist of a marked path with twists, turns, intersections, and possibly obstacles.

2. Robot Design and Functionality:

- Teams are responsible for designing and constructing their line-following robots.
- The robot must autonomously follow the provided path using sensors or other relevant technology.



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3. Competition Rules:

- The competition will be conducted in a controlled environment.
- Each team will have one attempt to navigate their robot through the line-following puzzle.
- Teams must start their robots from a designated starting point.
- If a robot deviates from the path, the team may intervene but with a time penalty imposed.
- The use of external devices or remote control during the competition is strictly prohibited.

4. Scoring and Timing:

- The judge will record the time taken by each team to complete the puzzle.
- The team with the fastest completion time will be declared the winner.
- In case of ties, the judges may consider factors such as design innovation and accuracy of navigation.
- The decision of the judges is final and irrevocable.

5. Awarding:

- The winner of the competition will be announced during the awarding ceremony.

Participant Limitation:

The Line Following Robotics Competition will accommodate a maximum of 13 participating schools.

Each school is allowed to register only one team for the competition.

Any additional participants will be accommodated on a first-come, first-served basis, provided that they adhere to the competition guidelines and regulations.

The decision to accept additional participants will be at the discretion of the organizing committee based on logistical feasibility and available resources.