



Republic of the Philippines  
**Department of Education**  
Region IV-A  
SCHOOLS DIVISION OF QUEZON PROVINCE



**DIVISION ADVISORY NO. 379, s. 2025**  
November 19, 2025

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

**INVITATION TO PARTICIPATE IN BRAIN FREEZE 2026**

The UP ERG-LB is a duly recognized academic organization under the Department of Electrical Engineering, College of Engineering and Agro-Industrial Technology (CEAT), University of the Philippines Los Baños. They will conduct Brain FrEEze 2026 on March 7, 2026, from 8:00 a.m. to 5:00 p.m. at the Electrical Engineering (EE) Building – UPLB Dante de Padua Hall, University of the Philippines Los Baños.

Participation to this activity is 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 Contribution 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.

The participation of public and private schools shall be entirely voluntary and must not disrupt instructional time, in accordance with the provisions of DepEd Order No. 012, s. 202, titled “Multi-Year Implementing Guidelines on the School Calendar and Activities” and DO9, s. 2005, titled “Instituting measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith” and the policy in off-campus activities stated in DO 66, s. 2017.

For further queries/ questions, please contact Mr. John Andrew Francia, Brain Freeze 2026 Event Head through 09425829436 email addresses: [jmfrancia@up.edu.ph](mailto:jmfrancia@up.edu.ph), or [erglbbrainfreeze2026@gmail.com](mailto:erglbbrainfreeze2026@gmail.com) website: [www.iiee.org.ph/csc](http://www.iiee.org.ph/csc).

cid-ims/chm/11/19/2025

DEPEDQUEZON-TM-SDS-04-011-003



Address: Sitio Fori, Brgy. Talipan, Pagbilao, Quezon  
Trunkline #: (042) 784-0366, (042) 784-0164,  
(042) 784-0391, (042) 784-0321



University of the Philippines  
**Engineering Radio Guild  
Los Baños**

DEPARTMENT OF ELECTRICAL ENGINEERING

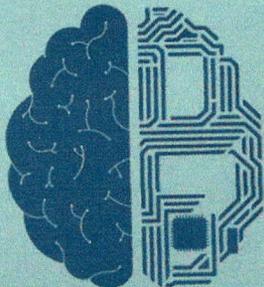
Dante B. de Padua Hall, Pili Drive, University of the Philippines Los Baños, College, Batang Malake, 4031 Laguna, Philippines

uplberg2004@gmail.com

f uperglb

@uperglb

Xuperglb



**Brain FrEEze 2026**

"Amped Up: A Glimpse into the Volt-Age Revolution"  
*Amplifying Knowledge. Powering Purpose – One Spark at a time.*

**ADHOC TEAM**

**John Andrew Francia**  
EVENT HEAD

**Hershey Anne C. Mamolo**  
**Rico Carlos Rodriguez**  
EVENT CO-HEADS

**John Rey Garcia**  
SECRETARIAT COMMITTEE HEAD

**John Dave Lanon**  
PROGRAM COMMITTEE HEAD

**Niño Anthony Marmeto**  
PUBLICITY COMMITTEE HEAD

**Charlene Banda**  
FINANCE COMMITTEE HEAD

**Albert Cellon**  
DESIGN AND AWARDS COMMITTEE HEAD

November 6, 2025

Superintendent Rommel C. Bautista  
Division Office of Quezon

Dear Sir:

Warm Greetings!

The UP ERG-LB is a duly recognized academic organization under the Department of Electrical Engineering, College of Engineering and Agro-Industrial Technology (CEAT), University of the Philippines Los Baños. Since its establishment in 2004, our organization has been dedicated to promoting the holistic development of its members by upholding academic excellence, leadership, and service to the community.

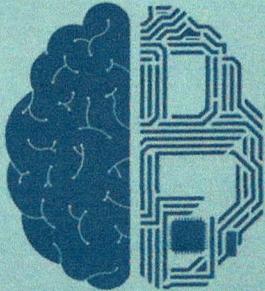
One of our major initiatives reflecting these values is our flagship event, Brain FrEEze 2026, which offers forums, workshops, and competitions for students from selected senior high schools in Regions IV-A and NCR. The event aims to provide participants with valuable insights into the various career paths available in Electrical Engineering while encouraging them to express their creativity, enhance their technical knowledge, and engage in meaningful learning experiences.

Brain FrEEze 2026 will be held on **March 7, 2026 (Saturday)**, from **8:00 AM to 5:00 PM**, at the **Electrical Engineering (EE) Building - UPLB Dante de Padua Hall, University of the Philippines Los Baños.**



University of the Philippines  
**Engineering Radio Guild  
Los Baños**

DEPARTMENT OF ELECTRICAL ENGINEERING  
Dante B. de Padua Hall, Pili Drive, University of the Philippines Los Baños, College, Batong Malake, 4031 Laguna, Philippines  
uplberg2004@gmail.com fuperglb @\_uperglb Xuperglb



**Brain Freeze 2026**  
"Amped Up: A Glimpse into the Volt-Age Revolution"  
Amplifying Knowledge. Powering Purpose -- One Spark at a Time

## **ADHOC TEAM**

**John Andrew Francia**  
EVENT HEAD

**Hershey Anne C. Mamolo  
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SECRETARIAT COMMITTEE HEAD

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PUBLICITY COMMITTEE HEAD

**Charlene Banda**  
FINANCE COMMITTEE HEAD

**Albert Cellon**  
DESIGN AND AWARDS COMMITTEE HEAD

The UP Engineering Radio Guild-Los Baños has always recognized your good office to have the mandate and authority over the academic development of young students of Quezon. We are one with the vision of DepEd Quezon Division to hone the youths of Quezon for them to achieve their potential and to become good citizens and responsible leaders of our country. For this reason, **the organization perceives your good office as an impeccable partner in achieving this objective.**

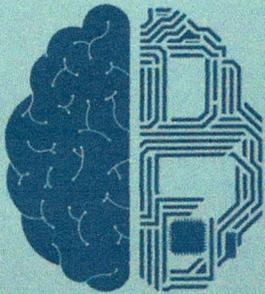
We, therefore, would like to ask for the recommendation and endorsement of your office to this event in all Secondary Schools in the DepEd Quezon Division. We would also like to request for your permission, as the highest governing authority in DepEd Quezon Division, to please allow participants to charge their expenses to their school fund. This would greatly alleviate the resource limitations and monetary struggle that is hindering schools from sending students to participate in the event. The organization acknowledges that the activity may not be pushed through without your assistance.

Attached here is the Registration Kits for you to check as reference to what will be discussed in the seminar, what kinds of workshops will be offered, and the competition the participants will join. Also, the mechanics of each competitions that will commence.



University of the Philippines  
**Engineering Radio Guild  
Los Baños**

DEPARTMENT OF ELECTRICAL ENGINEERING  
Dante B. de Padua Hall, Pili Drive, University of the Philippines Los Baños, College, Batang Malake, 4031 Laguna, Philippines  
upiberg2004@gmail.com    fuperglb    @uperglb    Xuperglb



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**Albert Cellon**  
DESIGN AND AWARDS COMMITTEE HEAD

We look forward to hearing from you soon. We are excited to work alongside you to make this event a meaningful one, and we look forward for many more in the future.

Thank you for your kind consideration!

Respectfully Yours,

**JOHN ANDREW FRANCIA**  
Event Head

Noted by:

**LEAL DANIEL JUAT**  
President, UP ERG-LB

**ASST. PROF. NATHANAEL E. SILAVA**  
Affiliated Adviser, UP ERG-LB

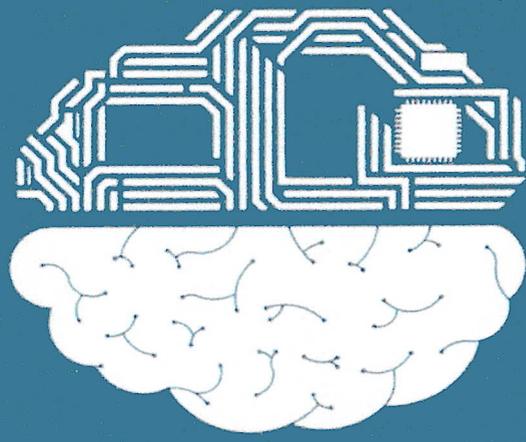
**PROF. ALLAN L. ALINEA, PhD**  
Non-Affiliated Adviser, UP ERG-LB

**ENGR. PHOEBE LIWA A. GREGORIO**  
Non-Affiliated Adviser, UP ERG-LB



University of the Philippines  
**Engineering Radio Guild**  
 Los Baños

PRESENTED BY  
 University of the Philippines  
**Engineering Radio Guild - Los Baños**



# Brain FREEZE 2026

**"Amped Up: A Glimpse into the Volt-Age Revolution"**

*Amplifying Knowledge, Powering Purpose — One Spark at a time*

## REGISTRATION KIT

**JOHN ANDREW FRANCIA**

*Brain FrEEze 2026 Event Head*

[jmfrancia@up.edu.ph](mailto:jmfrancia@up.edu.ph)

09425829436

**JOHN REY GARCIA**

*Secretariat Head*

[jlgarcia13@up.edu.ph](mailto:jlgarcia13@up.edu.ph)

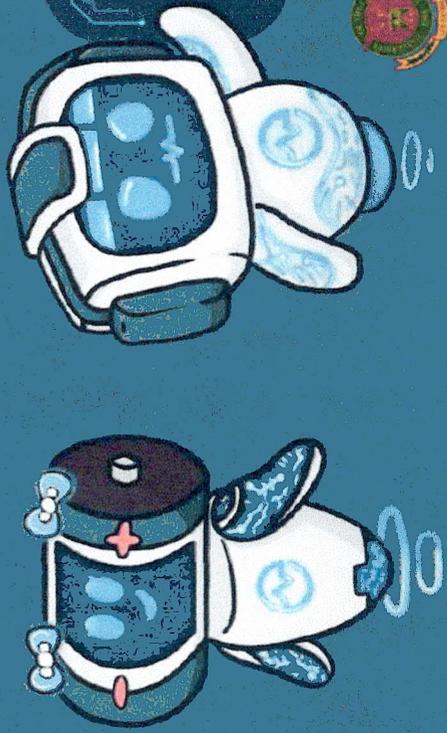
09763201876

**Brain FrEEze**  
[fb.me/Uperglbbrainfreeze](https://fb.me/Uperglbbrainfreeze)

**@uperglbbrainfreeze**  
[instagram.com/uperglbbrainfreeze](https://instagram.com/uperglbbrainfreeze)

**@uperglbbrainfreeze**  
[tiktok.com/uperglbbrainfreeze](https://tiktok.com/uperglbbrainfreeze)

**Official Brain Freeze Email**  
[erglbbrainfreeze2026@gmail.com](mailto:erglbbrainfreeze2026@gmail.com)



March 7, 2026

Dante De Padua Hall - DEE Auditorium

College of Engineering and Agro-Industrial Technology

University of the Philippines - Los Baños

ENDORSED BY:



# FOREWORD

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The **UP Engineering Radio Guild - Los Baños (UP ERG-LB)**, a duly recognized academic organization under the Department of Electrical Engineering, College of Engineering and Agro-Industrial Technology (CEAT), **University of the Philippines Los Baños (UPLB)**, is dedicated to uphold its pursuit of academic excellence, leadership, and service. Since its establishment in 2004, the organization has remained resolute in promoting the holistic development of its members, nurturing both intellect and character which are the essential quality of engineers who lead with purpose and integrity. In celebration of its 21st year of service and excellence, UP ERG-LB proudly brings back a landmark academic event — **Brain FrEEze 2026**, themed **“Amped Up: A Glimpse into the Volt-Age Revolution - Amplifying Knowledge, Powering Purpose - One Spark at a Time.”** Now in its 3rd installment, Brain FrEEze 2026 embodies the spirit of the Volt-Age Revolution — a generation fueled by knowledge, passion, and innovation. The event aims to introduce Electrical Engineering and the UPLB BSEE curriculum to senior high school students across **CALABARZON** and **NCR** through workshops and competitions that highlight real-world applications of the field. By engaging students in problem-solving and hands-on activities, the event nurtures critical thinking, creativity, and curiosity which are the qualities of future engineers and innovators.

More than an academic platform, Brain FrEEze 2026 reinforces UP ERG-LB's vision to inspire and empower aspiring youth beyond the university. It serves as a venue for collaboration, discovery, and growth — where every spark of curiosity can ignite purpose and innovation. Through its forums, workshops, and challenges, the event celebrates not only knowledge but also the collective pursuit of a brighter, more sustainable future. As we gather on **March 7, 2026** (Saturday) at the **Dante B. De Padua Hall**, University of the Philippines Los Baños, we witness not only a celebration of knowledge and innovation, but also the awakening of sparks that will define the future of engineering.

On behalf of the **UP Engineering Radio Guild - Los Baños**, we extend our deepest gratitude to everyone who continues to support our mission of advancing education, service, and innovation. It is my pleasure to revive this kind of event where everyone can take part and make this a path to unlock their fullest potential. May this event serve as a beacon of inspiration that there is a light in every end of a path. We are fully committed in empowering the youth to remain Amped Up as they take a glimpse into the Volt-Age Revolution, where every idea lights the way toward a brighter, more sustainable, and electrified future.

**JOHN ANDREW FRANCIA**  
*Brain FrEEze 2026 event Head*



March 7, 2026  
UP Los Baños

Brain FrEEze 2026  
Amped Up: A Glimpse into the Volt-Age Revolution  
UP Engineering Radio Guild



FACEBOOK  
f/uperglb

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uperglb@gmail.com

# Brain FREEZE 2026

## "Amped Up: A Glimpse into the Volt-Age Revolution"

*Amplifying Knowledge, Powering Purpose — One Spark at a time*

In line with its advocacy for academic excellence and youth empowerment, **UP ERG-LB** proudly presents **Brain FREEze**, an academic forum, workshop, and competitions designed for Senior High School students across the provinces of CALABARZON and nearby NCR region. With the theme '**Amped Up: A Glimpse into the Volt-Age Revolution**,' the event aims to introduce senior high school students to the diverse fields and opportunities within Electrical Engineering, one of the degree programs offered at University of the Philippines Los Baños and to inspire them to consider it as a prospective career path.

The event features a dynamic forum, competitions, and a hands-on workshop—all designed to introduce students to the exciting world of Electrical Engineering. Activities such as QuizCon, Essay Writing, Poster Making, and the immersive workshop allow participants to showcase their skills, deepen their understanding, and explore the possibilities of a future in this field.

**Brain FREEze** centers on the goal of sparking interest and deeper understanding of Science and Engineering among the youth, while fostering a spirit of healthy competition among students, schools, and youth organizations. This year's theme, "**Amped Up: A Glimpse into the Volt-Age Revolution**," symbolizes the increasing momentum and energy driving technological advancement, especially in the field of Electrical Engineering. "Amped Up" reflects the event's intention to energize and empower students to engage with real-world innovations, while the "Volt-Age Revolution" refers to the current era where electricity, power systems, and digital technologies are at the forefront of national development. Through this theme, the event highlights the crucial role of youth in driving this revolution forward—as future engineers who are proactive, socially aware, and dedicated to nation-building. This embodies the core mission of **Brain FREEze** and **UP ERG-LB**: to cultivate young minds who will lead with knowledge, purpose, and power.



University of the Philippines  
**Engineering Radio Guild**  
Los Baños

The **UP Engineering Radio Guild** (UP ERG-LB) is a **duly recognized academic organization** under the Department of Engineering (DEE), College of Engineering and Agro-Industrial Technology (CEAT), University of the Philippines Los Baños (UPLB). Since its establishment in 2004, UP ERG-LB has remained steadfast in its mission to foster the holistic development of its members and the community it serves. The organization upholds academic excellence, cultivates leadership, and encourages service—empowering students to grow not only as engineers but also as socially responsible citizens.

Beyond academic support, UP ERG-LB provides meaningful opportunities for students to give back to the society through **extension programs** and **service-driven initiatives**. The organization believes in the power of collective action as a driving force for progress in both the community and the nation.

### 21<sup>ST</sup> EXECUTIVE COMMITTEE

**LEAL DANIEL JUAT**  
*Executive President*

**MARK RHENZIEL HERNANDEZ**  
*VP for General Affairs*

**JOHN ANDREW FRANCIA**  
*VP for Finance*

**RICO CARLOS RODRIGUEZ**  
*VP for Internal and Academic Affairs*

**JARL WINFREY TAN**  
*VP for Admission, Recruitment, and Mentorship*

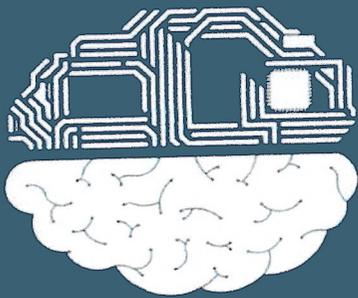
**KRISTINE ANN ABONAL**  
*Executive Vice President*

**MATTHEW ELIJAH DELA PAZ**  
*VP for Internal Affairs*

**ANDREI JERICHO FRANCISCO**  
*VP for Internal Affairs*

**BRYAN JOY SALDAJENO**  
*VP for Sports and Events*





# Brain FREEze

**JOHN ANDREW FRANCIA**  
*Brain FREEze 2026 Event Head*

**HERSHEY ANNE MAMOLO**  
*Brain FREEze 2026 Co-Head*

**RICO CARLOS RODRIGUEZ**  
*Brain FREEze 2026 Co-Head*

## DESIGN AND AWARDS COMMITTEE

**ALBERT CELLON**  
*Committee Head*

### MEMBERS

- Jan Marc Bermudez
- John Mark Casaysay
- Marc Emmanuel Canoy
- Pauline Khylla Gabatin
- Philip Aidan Kuan

## SECRETARINAT COMMITTEE

**JOHN REY GARCIA**  
*Committee Head*

### MEMBERS

- Kristine Ann Abonal
- Denver Mosquete
- Karl Caesar Pelaez
- Eriche Gerard Ramos
- Earl Rogen Sta. Rosa

## FINANCE COMMITTEE

**CHARLENE BANDA**  
*Committee Head*

### MEMBERS

- Naohmie Eshee Durante
- Wednesday Guerero
- Alwyn Gabriel Paderagao
- Charles Brent Salva
- Sophia Marie Siong
- Jerwin Jusi

## PUBLICITY COMMITTEE

**NIÑO ANTHONY MARMETO**  
*Committee Head*

### MEMBERS

- Yzabelle Acuña
- Ulysess John Areola
- Jazper Ken Bolino
- Abegail Anne Corpus
- Jhon Adrian Florante
- Neah Venice Jurilla
- Janriel Pascual

## PROGRAM COMMITTEE

**JOHN DAVE LANON**  
*Committee Head*

### MEMBERS

- John Cilian Borja
- Jean Fallega
- Reina LeighDoreen Guevarra
- Ezekiel Ilo Labrador
- Laurent Lee Magat
- John Michael Marino
- Charlie Olsim Jr.
- Dean Andrei Palma



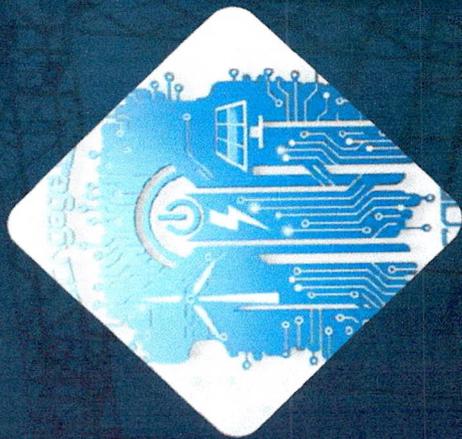
March 7, 2026  
11:00 AM - 12:00 PM

**BRAIN FREEZE** *Jumped Up: A Glimpse into the Next-Age Revolution*  
Empowering Knowledge, Powering Progress - One Spark at a Time



# EE FORUM

As part of Brain FrEEze 2026: Amped Up - A Glimpse into the Volt-Age Revolution, the Electrical Engineering Forum features a 60-minute seminar led by an invited industry expert, followed by a 5-minute preparation period. This forum introduces fundamental concepts and current trends in Electrical Engineering, with an emphasis on key fields within the discipline. Through professional insights and real-world experiences shared by the speaker, the forum aims to inspire students to consider Electrical Engineering as a meaningful and promising career path, aligning with the overall goal of the event.



# QUIZ CONTEST

This contest gathers teams of exactly three students each from high schools and colleges across the CALABARZON region. Participants compete by solving a series of challenging, progressively harder problems specifically designed in the fields of Mathematics, Physics, and Electrical Engineering. The competition emphasizes sharpening analytical reasoning, enhancing rapid problem-solving skills, and promoting seamless collaboration among team members under strict time limits. Its primary goal is to cultivate academic excellence and nurture a competitive yet supportive environment for aspiring engineers and scientists in the region.



# POSTER MAKING & ESSAY WRITING

These contests offer students a platform to demonstrate their knowledge and perspectives on electrical engineering through creative expression. The Essay Contest challenges participants to write clear, well-structured, and persuasive essays that highlight the societal significance and real-world impact of electrical engineering innovations. Meanwhile, the Poster Contest tasks students with designing visually engaging posters that simplify and effectively communicate complex electrical engineering concepts to a broad audience. Both contests aim to foster original thinking, deepen participants' understanding of the field, and promote public appreciation of engineering's role in society.



# WORKSHOP

This hands-on workshop provides participants with a thorough introduction to Electrical Engineering through guided construction and troubleshooting of electrical circuits. Led by experienced industry professionals, students will engage directly with industry-standard tools, components, and testing equipment within a safe and supervised setting. The workshop focuses on developing practical technical skills such as circuit assembly, measurement, and fault diagnosis, reinforcing key theoretical principles covered in the classroom.



# REGISTRATION

## I. ELIGIBILITY AND PARTICIPATION

Brain FrEEze 2026 is open to all interested schools within the CALABARZON region and nearby areas of the National Capital Region (NCR). Each participating institution may field:

- A maximum of **ten (10) student participants**, and
- Up to two (2) coaches

Participating schools may enlist a maximum of two (2) teams in total, distributed as follows:

### QUIZ CONTEST

- Up to two (2) teams, with three (3) members each
- Accompanied by one (1) coach

### POSTER AND ESSAY WRITING CONTESTS

- Up to two (2) teams, with two (2) members each
- Accompanied by one (1) coach

**Note:** While schools are encouraged to maximize participation by sending two teams per category, it is also permissible to send only one (1) team with one (1) coach to either or both competitions. This flexibility is provided to accommodate varying school capacities and preferences, although maximum participation is highly encouraged to fully experience the event.



# REGISTRATION

## II. REGISTRATION PROCEDURES

### MODE OF REGISTRATION:

**ONLINE ONLY**

### REGISTRATION PERIOD:

**EARLY:** NOVEMBER 24, 2025 - JANUARY 5, 2026

**REGULAR:** JANUARY 6, 2026 - MARCH 1, 2026

### IMPORTANT REMINDERS

- A limited number of slots are available per competition category. Early registration is highly encouraged to ensure participation.
- **Walk-in registrations will NOT be accepted** under any circumstance.
- In the event of technical difficulties or inability to access the online registration form, interested participants may contact the committee through:

**EMAIL** [erglbrainfreeze2026@gmail.com](mailto:erglbrainfreeze2026@gmail.com)

**MOBILE** John Rey Garcia - 09763201876

## III. PAYMENT PROCEDURES

Accepted modes of payment include GCash, Landbank, and Maya deposit:

### GCASH

Account Name: **Charlene B.**  
Account Number: **0948-907-1395**



### LBP

Account Name: **Charlene C. Banda**  
Account Number: **1897-1887-63**



### MAYA

Account Name: **Charlene Banda**  
Account Number: **0948-907-1395**



Further information and the official registration link will be posted on the following official platforms:

**FACEBOOK** [fb.me/uperglbrainfreeze](https://fb.me/uperglbrainfreeze)

**INSTAGRAM** [@uperglbrainfreeze](https://www.instagram.com/uperglbrainfreeze)

**TIKTOK** [@uperglbrainfreeze](https://www.tiktok.com/@uperglbrainfreeze)



**Note:** Kindly ensure the accuracy of all payment details prior to submission. Once payment is completed, the registration committee will send an official receipt stating the payment received. A confirmation email will be sent once the payment has been verified and successfully received.

# REGISTRATION

## IV. REGISTRATION INCLUSIONS

Several participation packages will be made available to enhance the event experience. Further details regarding package bundles will be announced in succeeding communications

QUIZZON + WORKSHOP + FORUM					
PACK	INCLUSIONS	1 PARTICIPATING TEAM		2 PARTICIPATING TEAM	
		EARLY	REGULAR	EARLY	REGULAR
A	Food, Quizzon tickets, Workshop, Forum Tickets	Php 1,900	Php 2,200	Php 3,600	Php 4,200
B	Food, Quizzon tickets, Workshop, Forum tickets, Lanyard, Totebag	Php 2,500	Php 2,800	Php 4,800	Php 5,400
C	Food, Quizzon tickets, Workshop, Forum tickets, T-shirt	Php 2,900	Php 3,200	Php 5,500	Php 6,000

POSTER + ESSAY + FORUM					
PACK	INCLUSIONS	1 PARTICIPATING TEAM		2 PARTICIPATING TEAM	
		EARLY	REGULAR	EARLY	REGULAR
A	Food, Forum, Workshop, Poster & Essay	Php 1,300	Php 1,500	Php 2,200	Php 2,800
B	Food, Forum, Workshop, Poster & Essay, Lanyard, Totebag	Php 1,600	Php 1,800	Php 3,000	Php 3,400
C	Food, Forum, Workshop, Poster & Essay, T-shirt	Php 2,000	Php 2,200	Php 3,500	Php 3,900

## V. GENERAL CONDUCT AND ATTIRE

All participants and coaches are expected to observe proper decorum and attire throughout the duration of the event.

### PERMITTED ATTIRE

- Participants are required to wear their school uniforms as the standard attire for this event.
- T-shirts, long pants, and closed shoes are also acceptable

### PROHIBITED ATTIRE

- Clothing with explicit language or inappropriate prints
- Torn or damaged garments



**Note:** Punctuality is imperative. Should delays in arrival be anticipated, schools are requested to inform the organizers at least three (3) days prior to the event. In the case of emergencies on the day of the event, immediate communication is expected. Upon arrival, participants and coaches must present proof of registration such as payment confirmation emails, SMS confirmations, or valid identification for verification.

# REGISTRATION

## VI. CONTEST RULES AND AWARDS

- Each participant is eligible to compete in **only one (1)** contest.
- The **forum and workshops segment** are open to **all registered students**.
- Contestants **may not exit** the venue during the competition **unless accompanied** by an official proctor.
- Any concerns must be formally raised to **proctors**, who will relay them to the Board of Judges for appropriate action.

## AWARDING AND RECOGNITION

- The **Top 5 participants** per category shall receive **certificates of recognition**.
- The **Top 3 participants** shall be awarded **medals, certificates, and cash prizes**

## BEST PERFORMING SCHOOLS

Trophies shall be awarded to the **top three (3) performing schools**, based on the cumulative points earned in all contests. The point system is as follows:

CATEGORY	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>	4 <sup>TH</sup>	5 <sup>TH</sup>
QUIZ CONTEST	100	80	60	40	20
ESSAY WRITING	70	55	40	25	10
POSTER MAKING	70	55	40	25	10

**Note:** In the event of a tie in the overall rankings, the school's performance in the Quiz Contest will serve as the tiebreaker. Schools with no representatives in a contest shall automatically receive zero (0) points in that category.

## VII. INTELLECTUAL PROPERTY

All outputs produced and submitted during the event shall be considered the property of the **UP Engineering Radio Guild - Los Baños** and may be used for documentation and promotional purposes.

## VIII. DISCLAIMER

The **UP Engineering Radio Guild - Los Baños**, along with the event heads of Brain Freeze 2026, shall not be held liable for any untoward incidents occurring **outside the official venues and scheduled activities of the event**.

## IX. INQUIRIES AND OFFICIAL CHANNELS

For clarifications and concerns, you may reach us through:

Email: [erglbrainfreeze2026@gmail.com](mailto:erglbrainfreeze2026@gmail.com)  
 Mobile: **JOHN REY GARCIA** | 09763201876



**GCASH**  
Charlene B.  
0948-907-1395



**LBP**  
Charlene C. Banda  
1897-1887-63



**MAYA**  
Charlene Banda  
0948-907-1395



# TECHNOLOGY SOCIETY

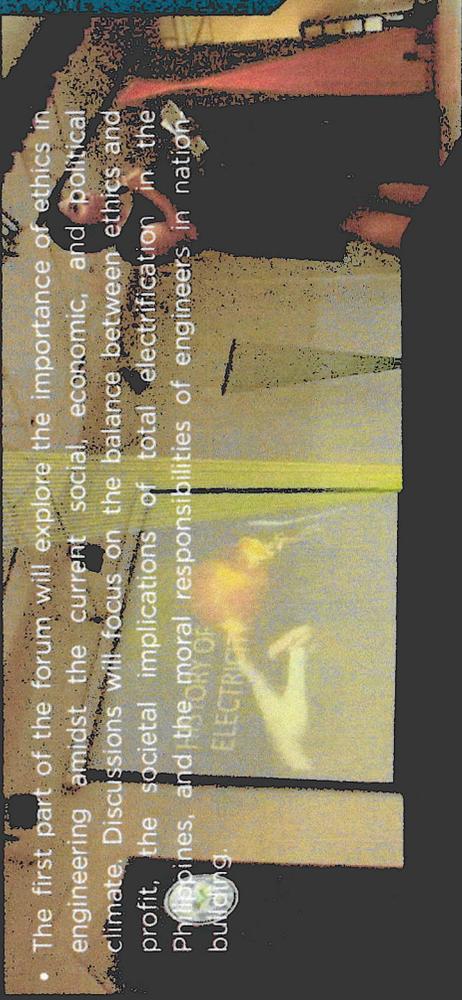
## EE FORUM

### “POWERING ETHICS AND INTEGRITY AT EVERY VOLT-AGE”

Topic: Ethics of Electrical Engineering

#### Subtopics

- The first part of the forum will explore the importance of ethics in engineering amidst the current social, economic, and political climate. Discussions will focus on the balance between ethics and profit, the societal implications of total electrification in the Philippines, and the moral responsibilities of engineers in nation building.

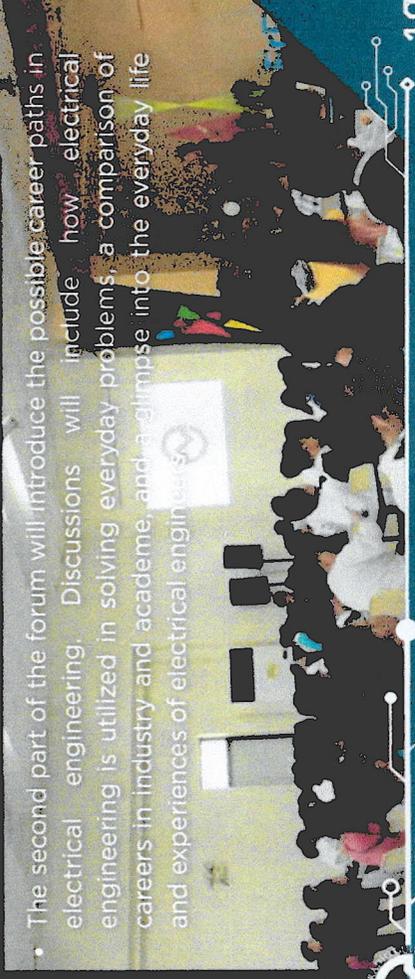


### “SOARING CURRENTS AND CONDUCTING PATHS IN ELECTRICAL ENGINEERING”

Topic: Career Paths in Electrical Engineering

#### Subtopics

- The second part of the forum will introduce the possible career paths in electrical engineering. Discussions will include how electrical engineering is utilized in solving everyday problems, a comparison of careers in industry and academe, and a glimpse into the everyday life and experiences of electrical engineers.



# QUIZ CON

## I. GUIDELINES AND MECHANICS

### IMPORTANT REMINDERS

- All Senior High Schools in the CALABARZON and NCR Regions are eligible to register a maximum of two (2) teams for the quiz contest.
- Each team will be composed of a team captain and two (2) team members. Only bona fide senior high school students from the same school are eligible to be a member of the participating team.
- Each participating school is allowed to register only one (1) coach, regardless of the number of teams (whether one or two teams). Only the registered coach shall be allowed to enter the venue for the quiz contest and workshop.

### CONTEST PROPER (I)

- Participating teams will be allowed to bring writing materials such as pencils and pens. They will not be allowed to bring any sheet of paper for scratch papers as it will be provided by the proctor. Electronic gadgets such as cellular phones and smart watches are not allowed.
- All types of scientific calculators are allowed. Before the start of the quiz contest, the proctor will ask all members to erase the memory of their calculator so that any stored formulas and/or other data will be erased.
- The quiz contest will consist of three (3) rounds: EEasy, AVEErage, and DEEFicult.

### CONTEST PROPER (II)

- The scope of the questions will cover Mathematics, Physics, and Trivia/General Information about Electrical Engineering. Topics discussed in the forum can also be included in the quiz contest. The detailed subject areas are stated on Section II.
- The first round, EEasy, is composed of fifteen (15) questions, the second round, AVEErage, is composed of ten (10) questions, and the third round, DEEFicult, is composed of five (5) questions.
- The first round, EEasy, are multiple choice questions, the second round, AVEErage, are identification and problem-solving type of questions, while the last round, DEEFicult, are problem-solving type of questions.
- The pointing system is depicted as follows:

ROUND	CORRECT	WRONG	NO ANSWER
EEasy	5	-2	-3
AVEErage	10	-4	-5
DEEFicult	20	-8	-10

- The time allotted for students in each questions per round is depicted as follows:

ROUND	NON-COMPUTATIONAL	COMPUTATIONAL
EEasy	10 Seconds	20 Seconds
AVEErage	20 Seconds	40 Seconds
DEEFicult	_____	90 Seconds

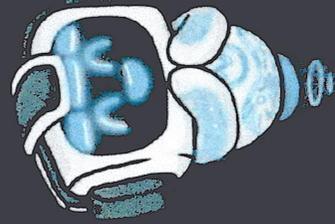
- The winning teams will be determined from the total scores of the three (3) rounds.



## CONTEST PROPER(III)

- The competing teams shall be asked the same set of questions. The answers must be written on the answer sheet provided and must be submitted to the proctor immediately after the allotted time.
  - 1.If the team members DID NOT submit their answer sheet for the first time, they will be given a warning by the proctor, and he/she will be forced to collect their answer sheet.
  - 2.If the team members DID NOT submit their answer after three (3) warnings, the proctor will raise his/her hand, and the team will have the score for that question of "No Answer".
- The participating teams can start answering at the moment the Quizmaster finishes reading the question. Each question will be read twice. The questions will be projected on the stage.
- For multiple choice questions, the answer must be in CAPITAL LETTERS only. Lowercase or any answer other than A, B, C, and D will be marked wrong. In the event that the answer is not among the choices provided, the participants must write letter E along with the correct answer. For example, if the question is "How many meters are there in 3 hectometers?" and the answer is not among the choices, the answer must be "E. 3.00 m".
- For questions requiring answers with their respective units, incorrect or no units will be considered wrong. Also, if the unit is not specified in the question, provide your answer in SI units.
- For identification type of questions, misspelled answers will be considered wrong.
- For problem-solving type of questions, if the answer can be expressed as a fraction, then the answer should be in fraction form in lowest terms- that is, in the form  $\frac{a}{b}$ , where a and b are coprime (have no common divisor other than 1). Otherwise, the answer should be expressed in three (3) significant figures. For example, if the question is "How many meters are there in 3 hectometers?", the answer must be "3.00 m". Any answer not expressed in lowest terms (for fractions) or expressed in three significant figures(for decimal answers) will be considered wrong.

- If members need to change their answer or make an erasure, it must be marked with an "X". Then the final answer should be enclosed in a box. Only the answer that is boxed will be considered.
- Only the Team Captain has the right to raise questions, seek clarifications, or voice complaints during the conduct of the quiz contest. It will be acknowledged after the Quizmaster has provided the correct answer for that question. The team captain must first address the issue to their respective proctor, who will signal the Quizmaster by raising their hand, after which the usher will give the microphone to the team captain to report the matter to the Board of Judges. The Board of Judges' decision shall be considered final and irrevocable.
- Any protest regarding the score tally, questions, or answer must be immediately raised before the succeeding question is read; otherwise, it will not be entertained.
- Cheating of any form is not allowed. Anyone in the team caught and proven guilty of cheating will be automatically disqualified from the quiz contest.
- In case of a tie among 1st, 2nd, or 3rd places, those teams will proceed to ClinchEEr (Sudden Death) Round. The tied teams will be asked ONE additional question until the tie is broken. Each question in this round is worth 1 point. The winner of the ClinchEEr Round will take the contested slot.



GOODLUCK TO ALL!

- ERGY



# POSTER ESSAY

## I. GUIDELINES AND MECHANICS

### IMPORTANT REMINDERS

- All Senior High Schools in the CALABARZON and NCR regions are eligible to register a maximum of two (2) contestants for each contest: poster design and essay composition.
- Each participating school is allowed to register only one (1) coach, regardless of the number of contestants (whether one or two individuals).

### ENTRY FOR POSTER DESIGN

- Each contestant is eligible for one submission.
- Participants are allowed to bring any art materials (e.g., oil pastels, colored markers, poster paint, etc.) except for the one-quarter cardboard poster to be provided by the ushers.
- Under no circumstances may participants use digital devices (e.g., mobile phones and smartwatches) during the contest. Violation of this rule is grounds for disqualification.
- The theme for the poster design will be announced during the contest proper, and it is expected to be in line with the program's core.
- All entries should follow a portrait layout.
- Strictly, all entries must be original and owned by the participants. Signature over the printed full name and school name is required to be noted on the back of the poster for identification purposes.
- Each participant will be given a time limit of 3 hours to complete and finalize their posters; any entries submitted beyond the allotted time will not be eligible for judging.

## II. CRITERIA FOR POSTER DESIGN

### CONTENT — 40%

- Presents a complete understanding and thoughtful interpretation of the theme
- Highlights relevant and timely issues connected to the theme
- Piques the interest and analytical thinking of the audience

### VISUAL QUALITY — 40%

- Presents a complete understanding and thoughtful interpretation of the theme
- Highlights relevant and timely issues connected to the theme
- Piques the interest and analytical thinking of the audience

### TECHNICAL ACCURACY — 15%

- Accurate use of engineering-related content
- Exhibits necessary symbols, diagrams, or labels to reflect principles

### AUDIENCE CHOICE — 5%

- Points in this category are earned through peer recognition, represented by ribbons given by coaches from other participating schools

## III. VOTING MECHANICS FOR AUDIENCE CHOICE

All submitted works will be displayed outside the DEE Auditorium for viewing and judging. Each coach, regardless of the number of teams they handle, will be allotted three votes to recognize their choice of outstanding poster entries. Coaches are strictly prohibited from voting for their own representatives to maintain fairness and objectivity. Voting will be conducted through the distribution of ribbons, with each ribbon representing one vote.

The top five posters with the highest number of votes will receive 5%, 4.8%, 4.6%, 4.4%, and 4.2% marks, respectively, under the Audience Choice criterion. For all other entries, each ribbon they received will be equivalent to 0.10%.

## I. GUIDELINES AND MECHANICS

### ENTRY FOR ESSAY COMPOSITION

- Each contestant is eligible for one submission.
- Participants are required to be equipped with a personal laptop with access to MS Word. The organizers will distribute a sensing form to confirm laptop availability. If a participant is not equipped with a suitable device, the organizers will notify them to validate their situation. Eligible participants may then submit a request to borrow a laptop from UPLB.
- Participants are expected to research relevant topics, concepts, and current issues aligned with the program's theme ahead of time, as they will depend solely on their own knowledge and writing abilities during the contest. Digital devices, other than laptops, and internet access will be strictly prohibited during the competition proper.
- The theme for the essay composition will be announced during the contest proper, and it is expected to be in line with the program's core.
- All entries must be written in English.
- Entries are required to fall within the word count limit of 600 to 1,000 words.
- Participants are expected to produce a structured and persuasive paper that presents a coherent viewpoint on the assigned theme.
- Entries should follow the writing format:

- **Size: A4 paper**
- **Font: Times New Roman, 12**
- **Line spacing: 1.5**
- **File format: PDF**

- Strictly, all entries must be original and owned by the participants.

- Each participant will be given a time limit of 3 hours to complete and finalize their papers; any entries submitted beyond the allotted time will not be eligible for judging. Following the contest, a flash drive will be provided to transfer file entries.

## II. CRITERIA FOR ESSAY COMPETITION

### CONTENT — 40%

- Demonstrates in-depth understanding of the given theme
- Arguments and claims within the essay are backed by sound reasoning or evidence
- Reflects critical thinking to address the theme with supporting arguments

### ORIGINALITY — 20%

- Distinctiveness and authenticity of ideas
- Presentation of the topic in an engaging manner

### COMMUNICATION — 20%

- Articulate delivery of the arguments: fluency, clarity, and impact
- Exhibits a logical arrangement of ideas that ensures overall coherence
- Use of appropriate tone and language

### MECHANICS — 5%

- Mastery of grammatical structure, punctuation, and proper capitalization
- Adherence to structure, word count, and formatting requirements

**Note:** By entering the competition, participants give their consent to UP ERG-Los Baños to display their poster and essay works for one week after the competition. This is to exhibit the participants' creativity and eloquence to a broader audience within the university community.

## II. SUB-THEMES

- Machine learning
- Neural networks
- Autonomous vehicles
- V2X communication
- Fleet management
- Sustainable transport
- Global mobility equity
- AI ethics
- Internet of Things (IoT)
- Privacy-by-Design
- Data governance
- Corporate Social Responsibility (CSR)
- Sustainable Development Goals (SDG)
- AI literacy
- Technology ethics
- Smart grids
- Renewable energy integration
- Internet of Things (IoT)
- Agrarian divide
- Rural energy programs
- Sustainable Development Goals (SDG)
- Public-Private Partnerships (PPP) for agribusiness development

# WORKSHOP

## II. ELECTRONICS X COMPUTER

### SIMPLE GAMES (PROGRAMMING + SENSOR CIRCUITS)

- Participants will create a game by following instructions from start to finish. The instructions include circuit assembly, copying the code into the Arduino, and the final setup of the game. As an alternative, groups may only be given snippets of code or different circuit arrangements, so there's still an EE-related challenge instead of just following instructions completely
- Each group will make a different game. We can also allocate time for them to try out the games made by other groups, creating a Science Fair-like atmosphere.

### Sample Games

- Reaction Timer Game - compete on who can press the button the fastest when the LED lights up.
- Noise Detection Game - compete by making softer or louder shouts.
- Clap Challenge - a series of LEDs will light up, and each LED corresponds to a required number of claps. There will be an indicator showing if the response is correct or wrong.
- Whack-a-LED - LEDs will light up randomly, and the correct button must be pressed to score (similar to Whack-a-Mole).
- Tilt Maze - the player uses a sensor to guide a dot through a maze and must successfully find the way out.
- Memory Game (Simon Says)- LEDs blink in a random sequence. Player must repeat by pressing the correct buttons.
- Balance the Light- Player uses a potentiometer (knob) to match LED brightness to a "target" brightness shown by another LED.
- Hot Potato Game- A buzzer/LED "passes" around. Players press their button to pass it. Whoever is holding it when the buzzer sounds loses.



# EVENT FLOW

6:30 AM	Registration	10:00 AM	General Reminders
8:00 AM	Opening Ceremony	10:05 AM	Introduction of Instructor
8:10 AM	Opening Remarks	10:10 AM	Workshop Discussion
8:20 AM	Keynote Address	10:35 AM	Workshop Proper
8:30 AM	First Speaker	11:50 AM	Q&A and Closing Segment
9:00 AM	Q&A Segment		
9:10 AM	Intermission		
9:15 AM	Second Speaker		
9:45 AM	Q&A Segment		
9:55 AM	Intermission		
10:00 AM	Start of Workshops		
12:00 PM	End of Workshops		
12:00 PM	Lunch Break	1:15 PM	General Reminders
1:00 PM	Intermission	1:20 PM	Introduction of Judges
1:15 PM	Start of Quiz Contest	1:25 PM	Mechanics Overview
1:15 PM	Start of Poster & Essay Competition	1:35 PM	Easy Round
4:30 PM	End of Quiz Contest	2:35 PM	Break / Intermission
4:30 PM	End of Poster & Essay Competition	2:45 PM	Average Round
4:30 PM	Awarding of Certificates: Judges	3:45 PM	Final Round
4:40 PM	Awarding of Certificates: Winners	4:15 PM	Scoring & Deliberation
4:50 PM	Closing Remarks	4:25 PM	Announcement of Winners
5:00 PM	End of Program		



March 7, 2026  
 U.S. Air Force Academy, CO, USA

**BRAIN FREEZE 2026** | Amped Up: A Glimpse into the Volt: Age Revolution  
 Amplifying Knowledge Awarding Purpose One Spark at a Time

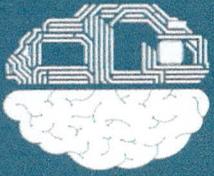


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# Brain Freeze 2026

"Amped Up: A Glimpse into the Volt-Age Revolution"  
*Amplifying Knowledge, Powering Purpose — One Spark at a time*

# POSTER ESSAY

1:00 PM General Reminders

1:05 PM Introduction of Judges

1:10 PM Explanation of Guidelines & Criteria

1:20 PM Contest Proper

3:50 PM Submission of Entries

4:05 PM Closing of Segment

# REGISTRATION

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Charlene C. Banda  
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**MAYA**  
Charlene Banda  
0948-907-1395

## FROM THE UPLB MAIN GATE:

- Enter Victoria M. Ela Avenue.
- Continue straight until you reach a small bridge along Rambutan Road.
- Turn left onto Pili Drive.
- You will see a greenhouse on your right, and Dante DE Padua Hall (UPLB DEE) is just after that.

## FROM UPLB CEAT

- Enter Pili Drive.
- You should pass by UPLB College of Agriculture on your right.
- Continue straight, you will see a greenhouse and Dante De Padua Hall (UPLB DEE) is just after that.

