



Republic of the Philippines
Department of Education
REGION IV-A CALABARZON
SCHOOLS DIVISION OF BATANGAS

Advisory No. 015 , s. 2025

February 3, 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.depedbatangas.com)

INVITATION TO ENGINEERING CONGRESS 2024

With reference to the invitation to participate in the activity Engineering Congress 2024,
attached is a copy of a letter from the head STEM A TTHON 2024 Marienne Joyce Macaraig and
President, CoE - Student Council Allen Karl Sabido, containing the details of the activities.

For the information and guidance of all concerned.



Address: Provincial Sports Complex, Bolbok, 4200 Batangas City

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January 7, 2024

Ms. MARITES A. IBAÑEZ
Schools Division Superintendent, Division of Batangas Province

Dear Ms. Ibañez:

Greetings in the name of engineering and innovation!

The College of Engineering - Student Council (CoE-SC), as one of the socio-civic organizations and the highest student governing body of the College of Engineering - Alangilan, has always been committed to fostering academic excellence along with the spirit of unity, decency, and loyalty; to develop a high sense of moral, social, and spiritual responsibilities to produce a high standard of scholastic values in our chosen field.

We will be conducting **Engineering Congress 2024** with the theme "*Engineering Evolutions through Elemental Innovations Towards Paramount Assemblage*". This event is the **celebration of the Engineering Day of the College of Engineering** highlighting the achievements of its 21 engineering programs, all united in the **goal of amplifying the University's engineering excellence**. In collaboration with the **Office of the Dean - College of Engineering, Office of Student Organizations, and Center for Innovation in Engineering Education** there will be two main events one of which is the **Science, Technology, Engineering, Mathematics, Academic Marathon (STEM-A-THON 2024)** - an invitational quiz bee for senior high school STEM students across the region. This event aims to guide STEM students in our region and provide them with valuable insights into engineering education.

STEM-A-THON 2024 will be conducted on **March 4, 2025** during the celebration of **World Engineering Day 2025** at **STEER HUB Building, BatStateU The NEU Alangilan** from **7:00 AM to 1:00 PM**.

This event will be conducted to carve the student's excellence in **General Mathematics, General Chemistry, Biology, Physics, and Trends, Innovation, and News in Engineering** and honing their potentials and interest towards engineering and technology.

In this regard, we would like to request permission from your well-established office to allow public secondary schools that offer **Senior High School, throughout the Division of Batangas Province** to send delegates to participate in the aforementioned competition with a **maximum of two (2) teams with four (4) members each**. Consequently, participating schools in **STEM-A-THON 2024** are requested to **fill out the registration form below on or before February 7, 2025** for the proper enlisting of participants. Registration will be processed on a **first-come, first-served basis**.

Link to **STEM-A-THON 2024** Registration Forms:
<https://tinyurl.com/STEM-A-THON-2024-Batangas>

For inquiries, you may contact the following contact persons:

Ms. Marianne Joyce Macaraig
Head of STEM-A-THON 2024
09914749890

Mr. Allen Karl Sabido
CoE SC President
09864304492

or through our email at coesc.alangilan@g.batstate-u.edu.ph

Your approval on this topic will be greatly appreciated. Thank you!

In the name of service,

MARIENNE JOYCE MACARAIG
Head, STEM-A-THON 2024

ALLEN KARL M. SABIDO
President, CoE - Student Council

Noted by:
Ms. LARA DAWN D. CALINGASAN
Adviser, CoE - Student Council

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1st CALABARZON Science, Technology, and Engineering Mathematics Academic Marathon (STEM-A-THON) 2024

(Partnership Primer)



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**ABOUT
Batangas State University, The National Engineering University**

Batangas State University, The National Engineering University is a Level IV state university in the province of Batangas, Philippines. Established in 1903. The university is strategically located in the second largest economic region in the Philippines, which puts it at a prime position not only as a premier provider of higher and advanced learning, but also as a viable economic development zone.

As one of the country's model higher education institutions recognized by the Commission on Higher Education (CHED), BatStateU, The NEU is the first and thus far the only state university in the Philippines with engineering, IT, and computer science programs accredited by the Accreditation Board for Engineering and Technology (ABET) - Engineering Accreditation Commission and Computing Accreditation Commission. With 15 development centers, it is recognized by the Regional Development Council of Region IV-A as the Regional Center for Technology Business Incubation and Development, and as the Regional Center for Science, Technology, Engineering, and Environment Research.

With over 40,000 students facilitated by 1,700 faculty and staff in 11 campuses, Batangas State University remains steadfast in its adherence to international standards. It was given a three-star rating by Quacquarelli Symonds Stars University rating, and is part of the Top Universities list. Through Proclamation No. 947, President Rodrigo Roa Duterte designated the BatStateU Knowledge, Innovation, and Science Technology or KIST Park as a Special Economic Zone. It is the first KIST Park registered by the Philippine Economic Zone Authority or PEZA.



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ABOUT
College of Engineering - Student Council

The College of Engineering - Student Council (CoE Alangilan-SC) has long been at the forefront of leadership and excellence within Batangas State University - The National Engineering University, embodying a legacy of commitment to student development and community service. The Council has championed numerous goals and spearheaded community-driven initiatives, launching various projects that support the academic and holistic growth of students while fostering a culture of innovation and collaboration.

The council was formerly known as the College of Engineering, Architecture, Fine Arts, and Computing Sciences - Student Council (CEAFACS - SC). In 2011, in line with the changing of the name of the college, the council was then named College of Engineering, Architecture, and Fine Arts - Student Council (CEAFA - SC). In 2022, in line with the restructuring of the College of Engineering, Architecture and Fine Arts (CEAFA), it was separated to form two colleges: the College of Engineering (CoE) and College of Architecture, Fine Arts, and Design (CAFAD) - and so the college council. The council is now called the College of Engineering Alangilan - Student Council (CoE Alangilan-SC).

Throughout its history, the Council has remained dedicated to upholding the core values of the University, combining technical knowledge with a broad range of skills and attitudes to nurture students into becoming future innovators and leaders. It has consistently prioritized initiatives that enhance student engagement and academic excellence, such as hosting symposiums, technical workshops, and competitions, which provide invaluable learning experiences beyond the classroom.

Committed to the University's vision and mission, the CoE Alangilan-SC strives to produce high-caliber professionals who are not only technically proficient but also socially responsible and proactive in addressing the challenges of the 21st century. The Council's ongoing efforts ensure that its members are equipped to contribute meaningfully to nation-building and to lead in the advancement of engineering and technology in the Philippines. Partnering with the CoE Alangilan-SC means supporting an organization that is dedicated to shaping the next generation of Filipino engineers and innovators.

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College of Engineering
Twenty One (21) Program Organizations

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ABMES - Association of Biomedical Engineering Students



ACerES - Association of Ceramics Engineering Students



ACES - Association of Civil Engineering Students



AEROESS - Aerospace Engineering Students' Society



AFES - Association of Food Engineering Students



AICES - Association of Instrumentation and Control Engineering Students



ATEs - Association of Transportation Engineering Students



CURSOR - Computer Engineering Students Organization



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JIIEE - Junior Institute of Integrated
Electrical Engineers



JPICHE - Junior Philippine Institute
of Chemical Engineers



JPIIE - Junior Philippine Institute of
Industrial Engineers



JSMEP - Junior Society of
Metallurgical Engineers of the
Philippines



JSONAME - Junior Society Of Naval
Architects and Marine Engineers



MESS - Mechanical Engineering
Student Society



MEXESS - Mechatronics Engineering
Students Society



PSSE - Philippine Society of Sanitary
Engineers



SAES - Society of Automotive
Engineering Students



SAGE - Student Association of
Geological Engineers

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SPE BatStateU-SC - Society of
Petroleum Engineers BatStateU
Student Chapter



SPWLA - Society of Petrophysicists
and Well Log Analysts BatStateU SC

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ABOUT

1st CALABARZON STEM-A-THON 2024: Science, Technology, and Engineering Mathematics Academic Marathon

STEM-A-THON is designed to provide a platform for the region's most promising students to demonstrate their knowledge, critical thinking, and problem-solving abilities through a series of rigorous and engaging challenges. By bringing together young scholars from diverse schools, the event aspires to enhance their skills, broaden their perspectives, and inspire a deeper appreciation for STEM disciplines.

The concept of STEMATHON traces its roots back to *Marathon of the Minds*, an engineering quiz bee hosted by the College of Engineering, Architecture, and Fine Arts Student Council (CEAFA SC). After the global pandemic, it became the first inter-school engineering quiz bee, marking the council's resilience and dedication to fostering academic excellence despite unprecedented challenges. Building on this, STEMATHON now covers Science, Technology, Engineering, and Mathematics, promoting intellectual excellence and innovation across multiple disciplines. The *STEM-A-THON 2023*, held last November 29, 2023, featured over five (5) schools, including those from the two largest cities in Batangas Province—Lipa City and Batangas City. The University of Batangas emerged as the champion of the event.

This year's STEM-A-THON, marks the launch of its groundbreaking *provincial division* aimed at setting a pioneering benchmark for senior high school students in the fields of Science, Technology, Engineering, and Mathematics (STEM). STEM-A-THON 2024 will begin with provincial eliminations, where schools will compete in central areas of their provinces. Only five qualifiers from each province will advance to the finals, to be held at Batangas State University - The National Engineering University Campus.

Batangas State University - The National Engineering University is steadfast in its mission to cultivate the next generation of visionary innovators and leaders who will shape the future of the country. As a premier institution of higher learning, the University is committed to fostering academic excellence and research-driven innovation, equipping students with the knowledge, skills, and ethical values required to excel in an ever-evolving global landscape.

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Aligned with this mission, the College of Engineering is dedicated to the holistic development of its students, providing a rigorous academic foundation complemented by opportunities for hands-on experience, research, and community engagement.

I. OBJECTIVES

Aligned with the college's vision and mission, the STEM-A-THON 2024 aims:

- To encourage students to deepen their knowledge and understanding of the STEM subjects through engaging and healthy competition.
- To promote various engineering programs offered by Batangas State University, The NEU that molds world-class engineers.
- To provide a platform where students can demonstrate their proficiency in STEM subjects while promoting a spirit of sportsmanship and camaraderie among participants from different schools and provinces.
- To create a platform for students, educators, and industry experts to connect and share knowledge that promote a supportive engineering community.
- To recognize and celebrate the outstanding academic achievements of senior high school students from Cavite, Laguna, Batangas, Rizal, and Quezon, showcasing the region's potential in producing future leaders and innovators.

II. Target SDGs:

SDG 4: Quality Education

SDG 8: Decent Work and Economic Growth

SDG 9: Industry, Innovation, and Infrastructure

SDG 17: Partnerships for the Goals

III. CORE TEAM

1st CALABARZON STEM-A-THON 2024: Science, Technology, and Engineering Mathematics Academic Marathon

Marienne Joyce Macaraig
Event Head / VP for Engineering
0991 474 9890 | 21-03117@g.batstate-u.edu.ph

Allen Karl M. Sabido
Event Co-Head / President
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IV. WHY JOIN THIS?

The 1st CALABARZON STEM-A-THON presents an unparalleled opportunity for schools to collaborate in an event that brings together participating schools within the CALABARZON region (Cavite, Laguna, Batangas, Rizal, and Quezon). This initiative fosters academic excellence and strengthens partnerships within the academic community, empowering future leaders in Science, Technology, Engineering, and Mathematics (STEM). By partnering with us, schools have the chance to elevate their institutional presence, gain recognition for championing STEM education, and collaborate with like-minded educators and students across the region.

COLLABORATION & EXCELLENCE

The 1st CALABARZON STEM-A-THON 2024 emphasizes building a network of schools that share the common goal of nurturing academic brilliance and innovative thinking in STEM fields. Through this partnership, schools can showcase their commitment to creating opportunities for their students, positioning themselves as leaders in progressive education. Schools that participate gain not only visibility but also access to a community of educators and students focused on collaborative learning and regional growth in the STEM sector.

ENHANCED SCHOOL VISIBILITY

This partnership will place your school at the forefront of regional educational initiatives. Schools involved will be acknowledged across event materials, social media channels, and key segments of the event program, highlighting their contribution to STEM education. By supporting the STEM-A-THON, your institution can affirm its leadership in the region's academic development and help champion excellence in education and innovation.

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V. PROGRAM FLOW

FINAL ROUND PROGRAMME	
Venue: STEER Hub	
Time	Title
	Person/s-in-Charge
7:00 am - 8:00 am	Arrival of Participants
8:00 am - 8:05 am	Safety Briefing Audio-Visual Presentation
8:05 am - 8:20 am	Opening Prayer, National Anthem
8:20 am - 8:40 am	Roll Call of Participating Schools
8:40 am - 8:45 am	Opening Remarks
	Dr. CRISTINA AMOR M. ROSALES Dean, College of Engineering - BatStateU The NEU Alangilan
8:45 am - 8:50 am	Inspirational Message
	Dr. TIRSO A. RONQUILLO President, Batangas State University, The National Engineering University
8:50 am - 9:00 am	Message
	Assoc. Prof DIVINA GRACIA D. RONQUILLO Coordinator, Center for Innovation in Engineering Education
9:00 am - 9:05 am	Message
	Mr. JEFFERSON I. CAÑADA Head, Office of Student Organizations
9:05 AM - 9:20 am	Break Time
9:20 am - 9:30 am	Reading of Guidelines
	MARIENNE JOYCE M. MACARAIG Head, STEM-A-THON 2024
9:30 am - 10:25 am	Easy Round and Average Round
10:25 am - 11:00 am	Difficult Round
11:00 am - 11:15am	Clincher Round
11:15am - 11:20 am	Intermission Number
11:20 am - 12:30 pm	Lunch Break
12:30 pm - 1:00 pm	Awarding Ceremony
1:00 pm - 1:05 pm	Closing Remarks
	Mr. ALLEN KARL M. SABIDO President, College of Engineering - Student Council

Table 1. Program Flow for STEM-A-THON 2024 Final Round

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VI. Guidelines of the Event

ELIGIBILITY RULES

- All participants should be currently enrolled senior high school students taking Science, Technology, Engineering, and Mathematics Strand regardless of year level.
- Each province in CALABARZON may form a maximum of five (5) teams as their representative. This will be on a first-come, first-served basis.
- If the slots for each province are already full and more participants from other provinces want to register, registration is allowed as long as the twenty-five (25) slots are not yet occupied.
- The first deadline of registration is on February 7, 2025 while the last deadline of registration is on February 14, 2025.
- All participants are required to fill out the registration form using the following links:

<https://tinyurl.com/STEM-A-THON-2024-Cavite>
<https://tinyurl.com/STEM-A-THON-2024-Laguna>
<https://tinyurl.com/STEM-A-THON-2024-Batangas>
<https://tinyurl.com/STEM-A-THON-2024-Rizal>
<https://tinyurl.com/STEM-A-THON-2024-Quezon>

Likewise, identification cards of the coach and students must be presented upon entrance to the contest venue.

- There will be **NO REGISTRATION FEE** for all participating teams.

GENERAL RULES: ELIMINATION ROUND

- BatStateU, The NEU's STEM-A-THON 2024: Science, Technology, and Engineering Mathematics Academic Marathon is a team competition. A team is composed of one (1) team coach, and of three (3) or four (4) members to represent each school. However, only three (3) shall be on stage during the contest proper. The other one shall act as an alternate.
- Each contestant is allowed to bring only one (1) non-programmable calculator and his/her pens (3 calculators for each team). However, the use of calculators in the mathematics category is not allowed. All calculators must be inspected prior to the examination. Answer sheets, board markers, scratch papers shall be provided by the organizers.
- There shall be three rounds: Easy, Average, and Difficult. Easy and Average Round is composed of 15 questions while the Difficult Round is composed of 10 questions.

Round	Time	Type of Question	Total Points
Easy	20 seconds	10 Multiple Choice 5 Identification	100 Points
Average	45 seconds	10 Identification 5 Problem Solving	200 Points
Difficult	1 minute	10 Problem Solving	300 Points

Table 2. Number of Questions, Points and Time for each Round

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The pointing system shall be as follows:

Type of Question	Equivalent Points
Multiple Choice	5
Identification	10
Problem Solving	20

Table 3. Pointing System for each type of Question

- The top five (5) teams, based on their cumulative scores in the easy, average, difficult rounds shall be awarded 1st, 2nd, 3rd, 4th, and 5th place accordingly. In case of a tie in any of the first five places, three (3) problem solving types will be given. If the tie is still not broken, do-or-die questions shall be given.

QUIZ PROPER

1. SCOPE.

Questions that will be given in the quiz competition will be taken from the following areas: Mathematics, Physics, Biology, General Chemistry, Trends, Innovations, and News in Engineering.

2. TIME LIMIT.

Contestants shall be given a time limit to answer the questions. Each question will be read twice by the quiz master. The question will be displayed right after the first reading of the question. Likewise, all teams can only start answering after the first reading of the question. Timing will start after the question has been read twice.

3. FINAL ANSWERS.

Each team must write their answer on the provided answer sheet. Final answers shall be ENCIRCLED, only CAPITALIZED LETTERS shall be used for the MULTIPLE-CHOICE type and CORRECT SPELLING must be observed for the IDENTIFICATION type.

Rounding off calculated numerical values should be done on the final answers only. All constants to be used in the calculations should be of four (4) decimal places to maintain the accuracy of the final answers. Free-floating decimals should be kept during the preliminary calculations. All final answers should be written up to two (2) decimal places unless otherwise stated by the problem. Correct units should also be observed.

4. VIOLATION.

Failure of a team to raise the answer sheet upon the quizmaster's declaration of time expiration is considered an offense. On the first offense, the team will be issued a warning. A second offense will make the team's answer to the question void. After three offenses, the team will be automatically DISQUALIFIED. Coaching or giving audible/visible signals in any form to the contestants shall result in the invalidation of the given question.

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Aaron Gabrielle Alday
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Casandra Joy Rodelas
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Press Relation Officer 2

Lara Dawn Calingasan
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5. TIE-BREAKER.

In case of a tie after the third round, three (3) problem-solving-type questions shall be given for the clincher round. Scores in this round will be accumulated and the team which will garner the highest/higher points will be declared as the placer. A corresponding time limit and point system will be imposed.

6. DO-OR-DIE.

If after the clincher round, the tie is not yet broken, a do-or-die question will be given. The first team to give the correct answer will be declared as the placer. A corresponding time limit and point system will be imposed.

7. SCORING.

- a. Correct answers for the multiple-choice questions will merit five (5) points each;
- b. For the identification type questions, ten (10) points each;
- c. For the problem solving, twenty (20) points each;
- d. Likewise, for the tie-breaking questions, the same points will be awarded for every correct answer;
- e. Incorrect, as well as void answers shall be awarded zero points.

8. SUBSTITUTION.

Substitution of contestants is permitted only after each round. The Quiz Committee shall be approached regarding substitution before the first question of the next round is asked.

9. PROTESTS.

Only the contestants and the coaches can file protests. Protests should be made immediately before the succeeding question is read. The board of judges shall deliberate on all protests. The decision of the board of judges is final and not appealable.

10. PRIZES.

The Top 5 of the elimination rounds will advance to the Final Round. For the Final Round. Only three teams are to be chosen as first, second, and third places in the quiz show depending on scores garnered by the team from each round. Please be guided by the table below:

TOP 3 FINAL ROUND	
Rank 1	- Php 30,000 Cash Prize - Plaque - Medal for each Member of the Team - Certificate of Recognition
Rank 2	- Php 20,000.00 Cash Prize - Plaque - Medal for each Member of the Team - Certificate of Recognition
Rank 3	- Php 10,000.00 Cash Prize - Plaque - Medal for each Member of the Team - Certificate of Recognition

Table 7. Prizes for 3 winning teams