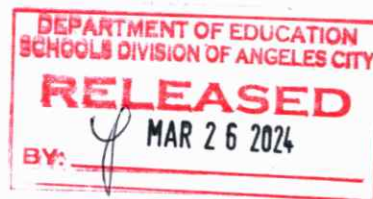




Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OF ANGELES CITY



Advisory No. 30 s. 2024
March 26, 2024

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

ABRASAHAN 2024: EMSS INTERSCHOLASTIC CHALLENGE

Please be informed that the Engineering Mathematics and Science Society
will conduct ABRASAHAN 2024: EMSS Interscholastic Challenge on April 12-13,
2024, as ABRASAHAN 2024's major component.

Attached is the letter of invitation from the SUC President III of Camarines Sur
Polytechnic Colleges, Amado A. Oliva Jr., PhD

For your information and guidance

Encl.: As stated
ACY/CID-CES/March 26, 2024





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March 18, 2024

DR. MAY B. ECLAR
Regional Director
Department of Education
Maimpis, City of San Fernando
Pampanga

Advisory
No. 049, s. 2024
To: All Schools Division Superintendents
For information.
[Signature]
MAY B. ECLAR, PhD, CESO III
Regional Director

MAR 22 2024
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Records Section

Dear Sir/Madam:

Greetings of peace and goodwill!

Expanding the horizons of knowledge, the Engineering Mathematics and Science Society as an academic organization of Camarines Sur Polytechnic Colleges is in a continuous journey, molding foundations of academic excellence built through various activities and programs. Improving the acquisition of ideas within the scope of science, technology, engineering, and mathematics (STEM), the organization goes beyond the institution's fences, reaching out to students outside the tertiary education. With this, ABRASAHAN was founded and has been conducted by the organization for two years now.

ABRASAHAN is EMSS's flagship national event consisting of two major components, the STEM Quiz and Webinar. This is participated in by **junior high school and senior high school students nationwide** seeking prowess development in the engineering and sciences fields. The event serves as a platform for students to gain competitive experience while attaining learnings on aligned specified professions.

Challenging the mathematical and scientific prowess of the participants, **ABRASAHAN 2024: EMSS Interscholastic Challenge** is to be conducted on **April 12, 2024**, and **April 13, 2024**, as ABRASAHAN 2024's major component. Focusing on the preservation and protection of the marine environment, **STEM Diving Depths: Water World Webinar** is to be conducted on April 13, 2024. The component will feature speakers in the field of sanitary engineering and marine science tackling topics on marine ecosystems in the context of their specialized area of research.

In line with this, the undersigned is **requesting from your good office to endorse this event to the public and private secondary schools under your supervisions**. Your assistance in this matter will be extremely beneficial to the achievement of the commitment that is a part of every activity we undertake for our fellow students and the community.

Attached herewith are the guidelines and mechanics of the ABRASAHAN: EMSS Interscholastic Quiz 2024.

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Should you have any questions or clarifications regarding this matter, you may reach out to Fernan Matthew Enimedez, event head of ABRASAHAN 2024 through abrasahan2022@gmail.com.

We are hoping for your favorable response to our request.

Thank you and God bless!

Sincerely,

AMADO A. OLIVA, JR., Ph.D.
SUC President III





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REGISTRATION AND GENERAL GUIDELINES

1. The ABRASAHAN 2024: EMSS Interscholastic Quiz Preliminary Round is **open to all interested junior and senior high school students from private and public schools in the Philippines**. Delegates from participating schools will be competing individually. Thus, the number of registered students from each school will not be limited.
2. For a student to register, a **valid school ID and certificate of enrollment/registration form** attesting to the qualification above [No.1] is required and must be attached in the registration link.
3. Granted that Qualification 1 and 2 is met, participants will pay a registration fee depending on their chosen package.
 - a) **Package A – P100.00 per participant [Solo]**
 - b) **Package B – P90.00 per participant [Group of 5]**
 - c) **Package C – P80.00 per participant [Group of 10]**Payments may be made thru the following:
 - a) **GCASH – 09566429351 (Anne Vishna Cano)**
 - b) **Landbank - SA2777047550 (John Reynold Cabaltera Brioso)**
4. Upon registering, payment should be made as the receipt or proof of payment is to be attached in the registration link.
5. The registration form can be accessed and filled in online via the link:

<https://tinyurl.com/ABRASAHAN2024Challenge>

A confirmation email including additional information and requirements needed for the quiz will be sent to participants who have successfully registered. The **deadline for registration will be on April 1, 2024, at 11:59 PM**. The completion of the form is highly recommended in order for a participant's e-certificate to be processed.

6. Participants are encouraged to like and follow the ABRASAHAN 2024 Facebook page to be kept updated and informed of event announcements.
7. Event guidelines and mechanics should be strictly followed by the participants, practicing proper online etiquette.
8. Posts related to the activity shall make use of the following hashtags to promote the event.

#ABRASAHAN2024
#EMSSInterscholasticQuiz
#STEMDivingDepths
9. All participants are also encouraged to attend the **free webinar of ABRASAHAN 2024 – STEM Diving Depths: Water World Webinar at 8:00 AM dated April 13, 2024**, same day as the Final Round. The registration link for the webinar is provided:

<https://tinyurl.com/ABRASAHANWebinar2024>

10. Winners of the Preliminary Round will advance to the Final Round. They will be featured on the Engineering Mathematics and Science Society and ABRASAHAN 2024 Facebook page.

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QUIZ DETAILS AND MECHANICS

1. The contest shall have two (2) rounds: the Preliminary Round and the Final Round. The preliminary round will be participated by all students who successfully registered. Only the top 100 of the preliminary round participants will qualify and participate the final round. The Preliminary Round will be on April 12, 2024, and the Final Round will be on April 13, 2023; both rounds will commence at 1 P.M.
2. The interscholastic quiz, both preliminary and final rounds, has three levels: EASY, AVERAGE, and DIFFICULT with scoring as follows.

	Time Duration	Number of Questions	Weigh per Questions	Total Points
Easy	15 minutes	10 questions	2 points	10 points
Average	20 minutes	10 questions	3 points	30 points
Difficult	30 minutes	10 questions	4 points	40 points
			Total Points:	90 points

3. Questions will come from the following areas: Algebra, Geometry, Statistics, Analytical Geometry, Trigonometry, Calculus, General Chemistry, and General Physics.
4. Both the preliminary and final rounds will utilize Quizizz as a platform to answer questions. In the PRELIMINARY ROUND, the quiz code will only be posted on the private group of all the participants created by the organizers and will be answered simultaneously. However, in the FINAL ROUND, Zoom Meeting will be used while answering the quiz as the code will now only appear in the occurring meeting. The participants must enter the meeting 30 minutes before the allocated time to ensure that only the qualified contenders are present to answer the questions.
5. Participants will have to use either a desktop or laptop (the use of mobile phones is discouraged as the questions may be displayed erroneously). Participants must have their own internet or data connection and must have their camera and microphone open throughout the QUIZ FINAL ROUND.
6. Each participant will have their assigned CLUSTERS upon entering the Quizizz link. There will be approximately fifty (50) people in each cluster. Be aware that all questions will be the same throughout all clusters, and that will administer the quiz simultaneously.
7. Each participant must have paper, a pen, and a scientific calculator for solving. Please refer to the list of allowed calculators below for your reference.
8. Each participant will start with a zero score in the final round's Easy Level. The Final Score for the Final Ranking will be based on the accumulated points throughout the quiz (Preliminary plus the Final Round scores).
9. All participants will have to wait for the signal from the Quiz Masters/Organizers before answering the questions.





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10. In the Final Round, questions and protests from participants regarding the answer to an item will only be entertained before the start of the next question. If a protest occurs, participants may address their concerns to the Quiz Master, who will convey them to the Board of Judges. The Board of Judges' decision is always final.
11. In case of a tie for the top 10 places, the tie will be broken through their score in Preliminary Round. The contestant who got the higher score will get the higher place. If they are still tied in the scores for the Preliminary Round, then the tie will be broken by the score in Final Round. If still, the tie is not broken, then a do-or-die question will be given. The first contestant who raises the correct answer to the board of judges will be considered the winner. The do-or-die question is not a multiple-choice question.
12. The organizers reserve the right to change all rules and guidelines for this event without prior notice. However, if such circumstance happens, the revised rules will be properly disseminated.
13. At the end of the EMSS ABRASAHAN 2023 Challenge.
 - A. Certificates of Participation shall be given to all the participants and coaches.
 - B. Certificates of Recognition and prizes will be given to:

Champion - Certificate of Recognition and 10,000 pesos
2nd Place - Certificate of Recognition and 7,500 pesos
3rd Place - Certificate of Recognition and 5,000 pesos
Top 4-10 - Consolation Prizes

(Winners will receive the prizes within 3-7 days after the event)

14. Kindly fill out the evaluation form that will be sent by the facilitator after the quiz. Note: NO EVALUATION, NO CERTIFICATE.

ANSWER FORMAT

The format of the answer in a problem-solving problem should be rounded off to the nearest two (2) decimal places using accurate units, unless otherwise tangible or whole answers are required (i.e., 10 rabbits, 541 vehicles). Only the final answer may be rounded off, as rounding off intermediate numbers may generate enough error to make answers incorrect. In some situations where questions require a certain format for the answer, the students should follow what is stated in that specific problem (i.e., two significant figures, fraction format, radical form, three decimal places). For identification-type questions, answers must be given completely and accurately spelled out, and acronyms will be considered wrong. Please follow these formatting guidelines to ensure that your answers will be considered correct.





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LIST OF ALLOWED CALCULATORS

AURORA CALCULATORS						
2512	DT210	DT-394	HC115	HC193	HL-125	SC-120
DB453B	DT303	EB-964	HC133	HC205	MS-270LA	SC582
DT120Vplus	DT-393	HC106	-	-	-	-

SHARP SCIENTIFIC CALCULATORS						
CH-312	EL-231L	EL-331A	EL-500M	EL-509G	EL-520W	EL-6750
CH-412	EL-240S	EL-334F	EL-501 (BK)	EL-509R	EL-531GH	EL-6810
CH-612	EL-242M	EL-337C	EL-501V	EL-509V	EL-531RH	EL-6850
EL=124A	EL-243S	EL-338F	EL-501W	EL-509V/531W	EL-531VH	EL-771C
EL-144A	EL-250S	EL-339H	EL-506P	EL-510R	EL-531W	EL-M332
EL-125A	EL-310A	EL-376S	EL-506R	EL-520G	EL-546L	EL-M711G
EL-145A	EL-310A-GR	EL-378S	EL-506V	EL-520V	EL-546VA	EL-W211G
EL-2125	EL-327S	EL-379S	EL-506W	EL-520V (BK)	EL-556G	EL-W531
EL-233S	EL-330A	EL-421M	EL-509D	EL-520VA	EL-6053	-

CANON SCIENTIFIC CALCULATORS						
AD-11	HS-1200 TV	LC-500H B	LS-1200T	LS-12TC	LS-88HI	TS-120 TL
BS-1200TS	HS-1200RS	LC-500H G	LS-120H	LS-12TU	LS-88HI II	TS-1200TG
CC-55	HS-1200TS	LS-10 DT	LS-120Hi	LS-153TS	LS-88HV B	TS-120TL
F-502	HS-1200TSV	LS-100 TSV	LS-120Hi II	LS-154H	LS-88HV G	TS-120TS
F-502G	HS-1210TC	LS-100DT	LS-120L	LS-154TG	LS-88HV Y	TS-121TC
F-604	HS-20 TG	LS-100TC	LS-120RS	LS-22TC	LS-88V	TX-1210 E
F-710	KC-20	LS-100TS	LS-120TSG	LS-270H	LS-88V II	TX-1210Hi
F-715S	KS-1200TS	LS-100TSV	LS-120TU	LS-270V II	LS-QT	TX-1210Hi II
F-720	LC-210 Hi II	LS-101H	LS-120V	LS-330H	MP-120LTS	TX-12H
F-720i	LC-210Hi	LS-102Z	LS-120V II	LS-355TS	MP-1211LTS	WS-112H
F-760S	LC-210Hi B	LS-103TC	LS-120V-B	LS-39H	MP-121DTS	WS-1200TV
F-788DX	LC-210Hi G	LS-10DT	LS-120V-G	LS-566H	MP-1411LTS	WS-1210Hi
FC-45S	LC-210Hi II G	LS-120 Hi	LS-120V-P	LS-63TG	P1-DTS II	WS-1210Hi II
FC-4S	LC-210Hi II GR	LS-120 RS	LS-121TC	LS-82Z	P23-DTS II	WS-1210T
HS-1000TG	LC-210Hi II PB	LS-120 TU	LS-122R	LS-83TC	P3420-DL	WS-1410 T
HS-1200 T	LC-210Hi Y	LS120 V	LS-123TC	LS-88 L	TS-10TS	WS-1610 T





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OLYMPIA CALCULATORS

ARCUS 1	HL-88L	LCD-612ST	SD-100HW	SD-805M	SD-828
HL-110	LCD-186	SD-100H	SD-100V	SD-81H	SD-835

CASIO SCIENTIFIC CALCULATORS

530	DS-208H	fx-500A	fx-82SX	J-120TE	MS-10TV	NS-10T
20V	DS-20TV	fx-500ES	fx-82TL	JF-120TV	MS-10V	NS-20T
470LA	DS-2TV	fx-506G	fx-85B	JF-200TV	MS-10VC	NS-310TM
D-100V	DS-3V	fx-506M	fx-85ES	JS-10LA	MS-115	O-40M
D-120TE	DS-881	fx-509D	fx-85ES PLUS	JS-10TV	MS-120TE	SL-100L
D-120TV	DW120TV	fx-509G	fx-85MS	JS-110TV	MS-120TV	SL-100VC
D-208H	fx-95ES PLUS	fx-520G	fx-85S	JS-120TV	MS-170LA	SL-1000TV
D-20L	fx-100D	fx-531GH	fx-85SA	JS-140V	MS-170T	SL-1100
D-20M	fx-100MS	fx-546D	fx-901	JS-20LA	MS-20TV	SL-200TE
D-40L	fx-100S	fx-570AD	fx-911W	JS-20TV	MS-20V	SL-210TE
D-60L	fx-100W	fx-570ES	fx-95	JS-40LA	MS-240T	SL-220TE
D-60M	fx-115D	fx-570ES PLUS	fx-95MS	JS-40V	MS-270LA	SL-300LV
DF100	fx-115MS	fx-570MS	fx-991ES	JS-SC	MS-270T	SL-300TV
DF120TM	fx-115S	fx-570S	fx-991ES PLUS	JW120TV	MS-310TM	SL-305TE
DF120TV	fx-122S	fx-570W	fx-991H	JW200	MS-350	SL-315TV
DF-240LB	fx-220	fx-580	fx-991MS	LC-1000T	MS-373	SL-320TV
DF-320TM	fx-250HC	fx-580D	fx-991N	LC-1000T/TV	MS-470	SL-320V
DJ-120T	fx-260	fx-65	fx-991S	LC-160LV	MS-470LA	SL-340VA
DJ-220	fx-300SA	fx-75	fx-991W	LC-401B	MS-470LB	SL-760LB
DJ-240	fx-300W	fx-82	fx-992S	LC-401L/LV	MS-5VC	SL-787LT
DM-1200T	fx-350D	fx-820MS	fx-992VB	LC-403LD	MS-7T	SL-797LT
DM-1200TEV	fx-350ES	fx-824	HC100	LC-403LD/TV	MS-808V	SL-910TM
DM-1400TV	fx-350ES PLUS	fx-825X	HL-100LB	M-7LB	MS-80TE	SX-100
DM-1600	fx-350HA	fx-82C	HL-1221	MJ-100	MS-80TV	SX-220
DM-1600TV	fx-350MS	fx-82ES	HL-4	MJ-100T	MS-812TV	SX-300
DN-858A	fx-350TL	fx-82ES PLUS	HL-815L	MJ-120T	MS-8T	SX-300P
DS-10TV	fx-350TLG	fx-82LB	HL-820LV	MS-1002	MS-8TV	SX-320P
DS-120TV	fx-350W	fx-82LP	HL-820V	MS-100TE	MW-5V	WD-220T
DS-1800S	fx-401	fx-82MS	HL-821	MS-100TV	MW-8V	WM-200T
DS-1TV	fx-451M	fx-82Super	HS-8LE	MS-10TE	MX8V	WM-220T





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HP 9S	HP30S	HP Office Calc 100	HP Office Calc 300	HP Quickcalc Lifestyle
HP 10S	HP Smartcalc 300S	HP Office Calc 200	HP Easycalc 100	HP Quickcalc Lifestyle

CITIZEN STANDARD CALCULATORS

CT-580	SDC-84407E	SDC-8610	SDC-8620A	SLD-7008	STL-795	W-11S
ET-210	SDC-8560	SDC-8610A	SDC-8975	SLD-742N	TL-780	-

OTHER BRANDS

CEBAR CD402	TL 30XS	KARCE KC 539	PORPO YH-106	TAKSUN TS-217
DAL 506X	KARCE-833	TEXAS TI 30	TIME BIRD SJC-122	TAKSUN TS-128B
LIFELONG	KARCE KC 250	PORPO YH-105	TAKSUN TS-128	-





ABRASAHAN 2024

Event Handbook

EMSS Interscholastic Quiz

PRELIMINARY ROUND

April 12, 2024 | 1:00 PM – 6:00 PM PHST

FINAL ROUND

April 13, 2024 | 1:00 PM – 6:00 PM PHST

Water World Webinar

April 13, 2024 | 8:00 AM – 12:00 PM PHST





MESSAGE FROM THE ABRASAHAN HEAD

It is by nature that we find ourselves questioning what we perceive. Through that curiosity, we try to discover and go beyond our horizons. It is by following where our feet take us that we are continuously challenged of what we consider unknown. Diving deep, our wisdom grow as we face stronger waves.

ABRASAHAN has been the submarine taking students on an exploration to discover knowledge and hone their skills to reach their fullest potential. It has brought those who are afraid to step out of their zones into a landscape where they can show their prowess and improve it leading them to academic excellence. This water transport will again be traveling and is now on a look out for new passengers.

With the goal of achieving academic excellence through promoting developing analytic and logical reasoning, and mastering intellectual skills, the Engineering Mathematics and Science Society (EMSS) made ABRASAHAN to life for junior and senior high school students around the country to experience a new challenge. On its third year, ABRASAHAN 2024 Interscholastic Quiz and Water World Webinar are anchored on the theme "STEM Diving Depths".

As one of the participants of the first ever ABRASAHAN, I can attest that it is an opportunity not worth of losing. It will open your eyes to new concepts which will equip you comes pursuing science, technology, engineering, and mathematics (STEM) fields in the future. Aside from prizes to win, the competitive adventure and mastery are to be acquired.

On behalf of Engineering Mathematics and Science Society, I invite you to join us in this incredible journey towards the deep blue sea. Set on April 12-13, 2024, take part on a never before escapade where underwater mysteries unfold, and treasures of ideas will be found. Be up for the challenge and see you on our voyage.

FERNAN MATTHEW ENIMEDEZ

ABRASAHAN 2024 Head





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EVENT DESCRIPTION

Expanding the horizons of knowledge, the Engineering Mathematics and Science Society as an academic organization of Camarines Sur Polytechnic Colleges is in a continuous journey, molding foundations of academic excellence built through various activities and programs. Improving the acquisition of ideas within the scope of science, technology, engineering, and mathematics, the organization goes beyond the institution's fences, reaching out to students outside the tertiary education. With this, ABRASAHAN was founded and has been conducted by the organization for two years now.

ABRASAHAN is EMSS's flagship national event consisting of two major components, the STEM Quiz and Webinar. This is participated by junior high school and senior high school students nationwide seeking prowess development in the engineering and sciences fields. The event serves as a platform for students to gain competitive experience while attaining learnings on aligned specified professions.

Challenging the mathematical and scientific prowess of the participants, **ABRASAHAN 2024: EMSS Interscholastic Quiz** is to be conducted by the Engineering Mathematics and Science Society on April 12-13, 2024, as ABRASAHAN 2024's major component. The Preliminary Round will be on April 12, 2024, while the Final Round on April 13, 2024, both at 1 P.M. to be held via the Quizizz App and Zoom, the delegates' knowledge, skills, and techniques on various topics will be tested as they compete in a battle of the best against their co-qualifiers.

Focusing on the preservation and protection of the marine environment, **STEM Diving Depths: Water World Webinar** is to be conducted by on April 13, 2024. The component will feature speakers in the field of sanitary engineering and marine science tackling topics on marine ecosystems in the context of their specialized area of research. This webinar will be an eye-opener to Filipino students with environmental awareness as a takeaway paving the way for the said fields to be introduced.





GOALS AND OBJECTIVES

- Provide an improved academic knowledge acquisition on science, technology, engineering, and mathematics.
- Create a platform for students to gauge their logical abilities, analytical skills, and intellectual capacities.
- Develop students' problem-solving techniques and approaches as the theories in the domains of Algebra, Geometry, Statistics, Analytical Geometry, Trigonometry, Calculus, General Chemistry, and General Physics are applied.
- Prompt an open discussion among students and speakers on various fields that they may take and pursue as they enter the realm of tertiary education.
- Nurture students' competitiveness within a healthy battling environment.
- Promote the vision, mission, and goals of the organization to other organizations eyeing external linkages and partnership in the future.



ABRASAHAN 2023 Screengrabs and Behind-the-Scenes





PROGRAM FLOW

ABRASAHAN 2024: EMSS Interscholastic Quiz Preliminary Round April 12, 2024 | 1:00 PM – 6:00 PM

PORTION	TIME
Waiting Time for Participants in FB Group	12:30 P.M. – 1:00 P.M.
Raising of Concerns and Reminder	1:00 P.M. – 1:30 P.M.
Easy Level	1:30 P.M. – 1:45 P.M.
Break	1:45 P.M. – 2:00 P.M.
Average Level	2:00 P.M. – 2:20 P.M.
Break	2:20 P.M. – 2:35 P.M.
Difficult Level	2:35 P.M. – 3:05 P.M.
Deliberation	3:05 P.M. – 6:00 P.M.
Announcement of Qualifiers	6:00 P.M.

STEM Diving Depths: Water World Webinar April 13, 2024 | 8:00 AM – 12:00 NN

PORTION	TIME
Waiting Time for Zoom Participants	7:30 A.M. – 8:00 A.M.
Prayer and National Anthem	8:00 A.M. – 8:10 A.M.
Opening Remarks and Rationale	8:10 A.M. – 8:15 A.M.
Statement of Purpose	8:15 A.M. – 8:20 A.M.
Introduction of the First Speaker	8:20 A.M. – 8:25 A.M.
Talk 1	8:25 A.M. – 9:45 A.M.
Open Forum 1	9:45 A.M. – 9:55 A.M.
Awarding of Token of Appreciation to Speaker 1 and Group Photo	9:55 A.M. – 10:00 A.M.
Ice Breaker	10:00 A.M. – 10:05 A.M.
Introduction of the Second Speaker	10:05 A.M. – 10:10 A.M.
Talk 2	10:10 A.M. – 11:30 A.M.
XII. Open Forum 2	11:30 A.M. – 11:40 A.M.
Awarding of Token of Appreciation to Speaker 2 and Group Photo	11:40 A.M. – 11:45 A.M.
Drawing of the Winners for the Raffle	11:45 A.M. – 11:50 A.M.
Closing Remarks	11:50 A.M. – 11:55 A.M.
Restoration	11:55 A.M. – 12:00 P.M.

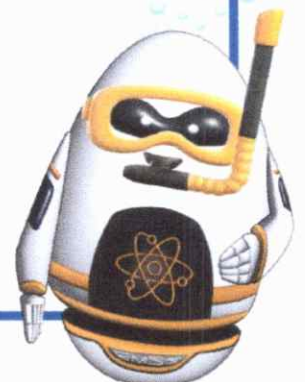




PROGRAM FLOW

ABRAHAN 2024: EMSS Interscholastic Quiz Final Round April 13, 2024 | 1:00 PM – 6:00 PM

PORTION	TIME
Waiting Time for Zoom Participants	12:30 P.M. – 1:00 P.M.
Prayer and National Anthem	1:00 P.M. – 1:10 P.M.
Opening Remarks and Rationale	1:10 P.M. – 1:15 P.M.
Reading of General Guidelines and Mechanics	1:15 P.M. – 1:20 P.M.
Introduction of the Panel of Judges	1:20 P.M. – 1:25 P.M.
Raising of Concerns and Other Reminders	1:25 P.M. – 1:35 P.M.
Preparation	1:35 P.M. – 1:40 P.M.
Easy Level	1:40 P.M. – 1:55 P.M.
Consultation of the Easy Level	1:55 P.M. – 2:05 P.M.
Break	2:05 P.M. – 2:15 P.M.
Average Level	2:15 P.M. – 2:35 P.M.
Consultation of the Average Level	2:35 P.M. – 2:45 P.M.
Intermission Number	2:45 P.M. – 2:50 P.M.
Break	2:50 P.M. – 3:00 P.M.
Difficult Level	3:00 P.M. – 3:30 P.M.
Consultation of the Difficult Level	3:30 P.M. – 3:40 P.M.
Deliberation and Tie-Breaking Round	3:40 P.M. – 5:00 P.M.
Announcement of ABRAHAN 2024: EMSS Interscholastic Quiz Winners and Awarding of Certificates	5:00 P.M. – 5:30 P.M.
Closing Remarks	5:30 P.M. – 5:45 P.M.
Restoration	5:45 P.M. – 6:00 P.M.





REGISTRATION AND GUIDELINES

1. The ABRASAHAN 2024: EMSS Interscholastic Quiz Preliminary Round is open to all interested junior and senior high school students from private and public schools in the Philippines. Delegates from participating schools will be competing individually. Thus, the number of registered students from each school will not be limited.
2. For a student to register, a **valid school ID** and **certificate of enrollment/registration form** attesting to the qualification above [No.1] is required and must be attached in the registration link.
3. Granted that Qualification 1 and 2 is met, participants will pay a registration fee depending on their chosen package.
 - a) **Package A – P100.00 per participant [Solo]**
 - b) **Package B – P90.00 per participant [Group of 5]**
 - c) **Package C – P80.00 per participant [Group of 10]**

Payments may be made thru the following:

- a) GCASH – **Anne Vishna Cano | 09566429351**
4. Upon registering, payment should be made as the receipt or proof of payment is to be attached in the registration link.
 5. The registration form can be accessed and filled in online via the link: <https://tinyurl.com/ABRASAHAN2024Challenge>
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 8. Posts related to the activity shall make use of the following hashtags to promote the event.
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#EMSSInterscholasticChallenge
#STEMDivingDepths





REGISTRATION AND GUIDELINES

- All participants are also encouraged to attend the free webinar of ABRASAHAN 2024 – **STEM Diving Depths: Water World Webinar** at 8:00 AM dated April 13, 2024, same day as the Final Round. The registration link for the webinar is provided:
<https://tinyurl.com/ABRASAHANWebinar2024>
- Winners of the Preliminary Round will advance to the Final Round. They will be featured on the Engineering Mathematics and Science Society and ABRASAHAN 2024 Facebook page.

QUIZ DETAILS AND MECHANICS

- The contest shall have two (2) rounds: the **Preliminary Round** and the **Final Round**. The preliminary round will be participated by all students who successfully registered. Only the top 100 of the preliminary round participants will qualify and participate the final round. The Preliminary Round will be on April 12, 2024, and the Final Round will be on April 13, 2023; both rounds will commence at 1 P.M.
- The interscholastic quiz, both preliminary and final rounds, has three levels: EASY, AVERAGE, and DIFFICULT with scoring as follows.

	Time Duration	Number of Questions	Weigh per Questions	Total Points
Easy	15 minutes	10 questions	2 points	10 points
Average	20 minutes	10 questions	3 points	30 points
Difficult	30 minutes	10 questions	4 points	40 points
			Total Points:	90 points

- Questions will come from the following areas: **Algebra, Geometry, Statistics, Analytical Geometry, Trigonometry, Calculus, General Chemistry, and General Physics.**
- Both the preliminary and final rounds will utilize Quizizz as a platform to answer questions. In the PRELIMINARY ROUND, the quiz code will only be posted on the private group of all the participants created by the organizers and will be answered simultaneously.





QUIZ DETAILS AND MECHANICS

However, in the FINAL ROUND, Zoom Meeting will be used while answering the quiz as the code will now only appear in the occurring meeting. The participants must enter the meeting **30 minutes before the allocated time** to ensure that only the qualified contenders are present to answer the questions.

- Participants will have to use either a desktop or laptop (the use of mobile phones is discouraged as the questions may be displayed erroneously). Participants must have their own internet or data connection and must have their camera and microphone open throughout the QUIZ FINAL ROUND.
- Each participant will have their assigned CLUSTERS upon entering the Quizizz link. There will be approximately fifty (50) people in each cluster. Be aware that all questions will be the same throughout all clusters, and that will administer the quiz simultaneously.
- Each participant must have paper, a pen, and a scientific calculator for solving. Please refer to the list of allowed calculators below for your reference.
- Each participant will start with a zero score in the final round's Easy Level. The Final Score for the Final Ranking will be based on the accumulated points throughout the quiz (Preliminary plus the Final Round scores).
- All participants will have to wait for the signal from the Quiz Masters/Organizers before answering the questions.
- In the Final Round, questions and protests from participants regarding the answer to an item will only be entertained before the start of the next question. If a protest occurs, participants may address their concerns to the Quiz Master, who will convey them to the Board of Judges. The Board of Judges' decision is always final.
- In case of a tie for the top 10 places, the tie will be broken through their score in the Preliminary Round. The contestant who got the higher score will get the higher place. If they are still tied in the scores for the Preliminary Round, then the tie will be broken by the score in Final Round.





REGISTRATION AND GUIDELINES

If still, the tie is not broken, then a do-or-die question will be given. The first contestant who raises the correct answer to the board of judges will be considered the winner. The do-or-die question is not a multiple-choice question.

12. The organizers reserve the right to change all rules and guidelines for this event without prior notice. However, if such circumstance happens, the revised rules will be properly disseminated.
13. At the end of the EMSS ABRASAHAN 2023 Challenge.
 - A. Certificates of Participation shall be given to all the participants and coaches.
 - B. Certificates of Recognition and prizes will be given to:
Champion - Certificate of Recognition and 10,000 pesos
2nd Place - Certificate of Recognition and 7,500 pesos
3rd Place - Certificate of Recognition and 5,000 pesos
Top 4-10 - Consolation Prizes

(Winners will receive the prizes within 3-7 days after the event)

14. Kindly fill out the evaluation form that will be sent by the facilitator after the quiz. Note: **NO EVALUATION, NO CERTIFICATE.**

ANSWER FORMAT

The format of the answer in a problem-solving problem should be rounded off to the nearest two (2) decimal places using accurate units, unless otherwise tangible or whole answers are required (i.e., 10 rabbits, 541 vehicles). Only the final result may be rounded off, as rounding off intermediate numbers may generate enough error to make answers "incorrect." In some situations where questions require a certain format for the answer, the students should follow what is stated in that specific problem (i.e., two significant figures, fraction format, radical form, three decimal places). For identification-type questions, answers must be given completely and accurately spelled out, and acronyms will be considered wrong. Please follow these formatting guidelines to ensure that your answers will be considered correct.

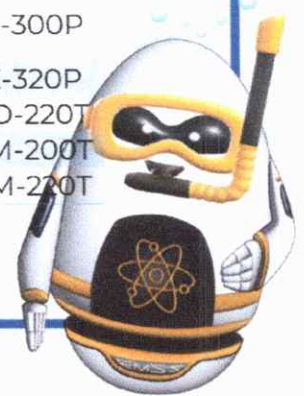




LIST OF ALLOWED CALCULATORS

CASIO SCIENTIFIC CALCULATORS

530	DS-208H	fx-500A	fx-82SX	J-120TE	MS-10TV	NS-10T
20V	DS-20TV	fx-500ES	fx-82TL	JF-120TV	MS-10V	NS-20T
470LA	DS-2TV	fx-506G	fx-85B	JF-200TV	MS-10VC	NS-310TM
D-100V	DS-3V	fx-506M	fx-85ES	JS-10LA	MS-115	O-40M
D-120TE	DS-881	fx-509D	fx-85ES PLUS	JS-10TV	MS-120TE	SL-100L
D-120TV	DW120TV	fx-509C	fx-85MS	JS-110TV	MS-120TV	SL-100VC
D-208H	fx-95ES PLUS	fx-520G	fx-85S	JS-120TV	MS-170LA	SL-1000TV
D-20L	fx-100D	fx-531GH	fx-85SA	JS-140V	MS-170T	SL-1100
D-20M	fx-100MS	fx-546D	fx-901	JS-20LA	MS-20TV	SL-200TE
D-40L	fx-100S	fx-570AD	fx-911W	JS-20TV	MS-20V	SL-210TE
D-60L	fx-100W	fx-570ES	fx-95	JS-40LA	MS-240T	SL-220TE
D-60M	fx-115D	fx-570ES PLUS	fx-95MS	JS-40V	MS-270LA	SL-300LV
DF100	fx-115MS	fx-570MS	fx-991ES	JS-SC	MS-270T	SL-300TV
DF120TM	fx-115S	fx-570S	fx-991ES PLUS	JW120TV	MS-310TM	SL-305TE
DF120TV	fx-122S	fx-570W	fx-991H	JW200	MS-350	SL-315TV
DF-240LB	fx-220	fx-580	fx-991MS	LC-1000T	MS-373	SL-320TV
DF-320TM	fx-250HC	fx-580D	fx-991N	LC-1000T/TV	MS-470	SL-320V
DJ-120T	fx-260	fx-65	fx-991S	LC-160LV	MS-470LA	SL-340VA
DJ-220	fx-300SA	fx-75	fx-991W	LC-401B	MS-470LB	SL-760LB
DJ-240	fx-300W	fx-82	fx-992S	LC-401L/LV	MS-5VC	SL-787LT
DM-1200T	fx-350D	fx-820MS	fx-992VB	LC-403LD	MS-7T	SL-797LT
DM-1200TEV	fx-350ES	fx-824	HC100	LC-403LD/TV	MS-808V	SL-910TM
DM-1400TV	fx-350ES PLUS	fx-825X	HL-100LB	M-7LB	MS-80TE	SX-100
DM-1600	fx-350HA	fx-82C	HL-1221	MJ-100	MS-80TV	SX-220
DM-1600TV	fx-350MS	fx-82ES	HL-4	MJ-100T	MS-812TV	SX-300
DN-858A	fx-350TL	fx-82ES PLUS	HL-815L	MJ-120T	MS-8T	SX-300P
DS-10TV	fx-350TLC	fx-82LB	HL-820LV	MS-1002	MS-8TV	SX-320P
DS-120TV	fx-350W	fx-82LP	HL-820V	MS-100TE	MW-5V	WD-220T
DS-1800S	fx-401	fx-82MS	HL-821	MS-100TV	MW-8V	WM-200T
DS-1TV	fx-451M	fx-82Super	HS-8LE	MS-10TE	MX8V	WM-220T





LIST OF ALLOWED CALCULATORS

CANON SCIENTIFIC CALCULATORS

AD-11	HS-1200 TV	LC-500H B	LS-1200T	LS-12TC	LS-88Hi	TS-120 TL
BS-1200TS	HS-1200RS	LC-500H G	LS-120H	LS-12TU	LS-88Hi II	TS-1200TG
CC-55	HS-1200TS	LS-10 DT	LS-120Hi	LS-153TS	LS-88HV B	TS-120TL
F-502	HS-1200TSV	LS-100 TSV	LS-120Hi II	LS-154H	LS-88HV G	TS-120TS
F-502G	HS-1210TC	LS-100DT	LS-120L	LS-154TG	LS-88HV Y	TS-121TC
F-604	HS-20 TG	LS-100TC	LS-120RS	LS-22TC	LS-88V	TX-1210 E
F-710	KC-20	LS-100TS	LS-120TSG	LS-270H	LS-88V II	TX-1210Hi
F-715S	KS-1200TS	LS-100TSV	LS-120TU	LS-270V II	LS-QT	TX-1210Hi II
F-720	LC-210 Hi II	LS-101H	LS-120V	LS-330H	MP-120LTS	TX-12H
F-720i	LC-210HI	LS-102Z	LS-120V II	LS-355TS	MP-1211LTS	WS-112H
F-760S	LC-210Hi B	LS-103TC	LS-120V-B	LS-39H	MP-121DTS	WS-1200TV
F-788DX	LC-210Hi G	LS-10DT	LS-120V-G	LS-566H	MP-1411LTS	WS-1210Hi
FC-45S	LC-210Hi II G	LS-120 Hi	LS-120V-P	LS-63TG	P1-DTS II	WS-1210Hi II
FC-4S	LC-210Hi II GR	LS-120 RS	LS-121TC	LS-82Z	P23-DTS II	WS-1210T
HS-1000TG	LC-210Hi II PB	LS-120 TU	LS-122R	LS-83TC	P3420-DL	WS-1410 T
HS-1200 T	LC-210Hi Y	LS120 V	LS-123TC	LS-88 L	TS-10TS	WS-1610 T

SHARP SCIENTIFIC CALCULATORS

CH-312	EL-231L	EL-331A	EL-500M	EL-509G	EL-520W	EL-6750
CH-412	EL-240S	EL-334F	EL-501 (BK)	EL-509R	EL-531GH	EL-6810
CH-612	EL-242M	EL-337C	EL-501V	EL-509V	EL-531RH	EL-6850
EL-124A	EL-243S	EL-338F	EL-501W	EL-509V/531W	EL-531VH	EL-771C
EL-144A	EL-250S	EL-339H	EL-506P	EL-510R	EL-531W	EL-M332
EL-125A	EL-310A	EL-376S	EL-506R	EL-520G	EL-546L	EL-M711G
EL-145A	EL-310A-GR	EL-378S	EL-506V	EL-520V	EL-546VA	EL-W211G
EL-2125	EL-327S	EL-379S	EL-506W	EL-520V (BK)	EL-556G	EL-W531
EL-233S	EL-330A	EL-421M	EL-509D	EL-520VA	EL-6053	-





LIST OF ALLOWED CALCULATORS

HEWLETT-PACKARD SCIENTIFIC CALCULATORS

HP 9S	HP30S	HP Office Calc 100	HP Office Calc 300	HP Quickcalc Lifestyle
HP 10S	HP Smartcalc 300S	HP Office Calc 200	HP Easycalc 100	HP Quickcalc Lifestyle

CITIZEN STANDARD CALCULATORS

CT-580	SDC- 84407E	SDC-8610	SDC- 8620A	SLD-7008	STL-795	W-11S
ET-210	SDC-8560	SDC-8610A	SDC-8975	SLD-742N	TL-780	-

AURORA CALCULATORS

2512	DT210	DT-394	HC115	HC193	HL-125	SC-120
DB453B	DT303	EB-964	HC133	HC205	MS-270LA	SC582
DT120Vplus	DT-393	HC106	-	-	-	-

OLYMPIA CALCULATORS

ARCUS 1	HL-88L	LCD-612ST	SD-100HW	SD-805M	SD-828
HL-110	LCD-186	SD-100H	SD-100V	SD-81H	SD-835

OTHER BRANDS

CEBAR CD402	TL 30XS	KARCE KC 539	PORPO YH-106	TAKSUN TS-217
DAL 506X	KARCE-833	TEXAS TI 30	TIME BIRD SJC-122	TAKSUN TS- 128B
LIFELONG	KARCE KC 250	PORPO YH-105	TAKSUN TS-128	-

ABRASAHAN MINI QUIZ

The Abrasahan Mini Quizzes are sub-events formulated for mathletes and science enthusiasts to showcase their skills in problem solving and virtually engage with others as they wait for the EMSS Interscholastic Challenge and STEM Diving Depths: Water World Webinar. As they answer questions, they will be given a chance to be chosen by a randomizer within a pool of names of those who answered the questions correctly to win prizes such as the ABRASAHAN 2024 merchandise bundle (1 shirt and 1 tote bag). It is free and open to all interested individuals even for those not registered in the main events.





ABRAHAN MINI QUIZ

To participate in the mini quiz, the steps below should be followed.

1. Like the ABRASAHAN 2024 Facebook page (fb.com/abrasahan2024).
2. Mention at least five high school students (senior and junior) in the posts' comment section.
3. Share the Facebook Mini Quiz post publicly with the hashtags:
#ABRASAHAN2024
#EMSSInterscholasticChallenge
#STEMDivingDepths
4. Message your answers and solutions to the ABRASAHAN 2024 Facebook page (fb.com/abrasahan2024) before a given deadline.

ABRASAHAN 2024 MERCHANDISE





AWARDS AND PRIZES

RANK	PRIZE AND TOKEN
1st Place - Champion	P10,000.00 Abrasahan Shirt Abrasahan Tote Bag Keychain
2nd Place	P7,500.00 Abrasahan Shirt Abrasahan Tote Bag Keychain
3rd Place	P5,000.00 Abrasahan Shirt Abrasahan Tote Bag Keychain
4th Place	Abrasahan Shirt Abrasahan Tote Bag
5th Place	Abrasahan Shirt Abrasahan Tote Bag
6th Place	Abrasahan Shirt Abrasahan Tote Bag
7th Place	Abrasahan Shirt Abrasahan Tote Bag
8th Place	Abrasahan Shirt Abrasahan Tote Bag
9th Place	Abrasahan Shirt Abrasahan Tote Bag
10th Place	Abrasahan Shirt Abrasahan Tote Bag

IMPORTANT EVENT LINKS

ABRASHAN 2024	Abrasahan2022@gmail.com
ABRASHAN 2024 Facebook Page	fb.com/abrasahan2024
ABRASHAN 2024 EMSS Interscholastic Challenge Registration Link	https://tinyurl.com/ABRASHAN2024Challenge
ABRASHAN 2024 STEM Diving Depths: Water World Webinar Registration Link	https://tinyurl.com/ABRASHANWebinar2024
ABRASHAN 2024 General Mechanics and Guidelines	https://tinyurl.com/ABRASHAN2024Guide





ABRAHAHAN TEAM

FERNAN MATTHEW ENIMEDEZ

ABRAHAHAN 2024 Head

JOHN REYNOLD BRIOSO

ABRAHAHAN 2024 Co-Head

MARY GRACE INDICO

Event Secretary

KRIZIA MARIE VILLOS

ANNE VISHNA CANO

Finance Heads

RACHELLE DOCOT

Registration Head

JUSTINNE JAENIELLE

GUADALUPE

Merchandise Head

PRINCE ALANIS

Challenge Head

CEDRIC ADRIAN BONGHANNOY

Publicity Head

AMANDO ROSE PORTUGAL

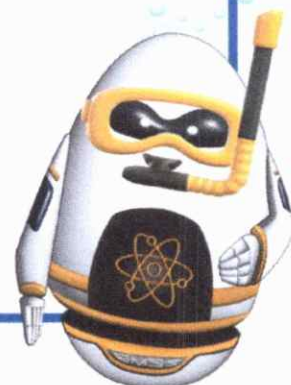
Program Head

AARON ALLEN ADVINCULA

Design Head

CONTACT INFORMATION

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QUALITY AND ENVIRONMENTAL POLICY

CSPC commits to provide the highest standards in total customer satisfaction in accord with legal and other requirements to satisfy current and future needs of clients and stakeholders, uphold good governance conditions; and sustain the integrity of the environment and its resources through Continual improvement of its quality and environmental management system.

Republic of the Philippines CAMARINES SUR POLYTECHNIC COLLEGES

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OFFICE OF THE PRESIDENT

VISION

Polytechnic education at its best for the Bicolanos.

MISSION

Transforming lives to be free of poverty by creating a better future through world class polytechnic education and technological innovation.

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1. The ABRASAHAN 2024: EMSS Interscholastic Quiz Preliminary Round is **open to all interested junior and senior high school students from private and public schools in the Philippines**. Delegates from participating schools will be competing individually. Thus, the number of registered students from each school will not be limited.
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CSPC: *Pivoting Towards Excellence and Transformation in Polytechnic Education!*





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			Total Points:	90 points

3. Questions will come from the following areas: Algebra, Geometry, Statistics, Analytical Geometry, Trigonometry, Calculus, General Chemistry, and General Physics.
4. Both the preliminary and final rounds will utilize Quizizz as a platform to answer questions. In the PRELIMINARY ROUND, the quiz code will only be posted on the private group of all the participants created by the organizers and will be answered simultaneously. However, in the FINAL ROUND, Zoom Meeting will be used while answering the quiz as the code will now only appear in the occurring meeting. The participants must enter the meeting 30 minutes before the allocated time to ensure that only the qualified contenders are present to answer the questions.
5. Participants will have to use either a desktop or laptop (the use of mobile phones is discouraged as the questions may be displayed erroneously). Participants must have their own internet or data connection and must have their camera and microphone open throughout the QUIZ FINAL ROUND.
6. Each participant will have their assigned CLUSTERS upon entering the Quizizz link. There will be approximately fifty (50) people in each cluster. Be aware that all questions will be the same throughout all clusters, and that will administer the quiz simultaneously.
7. Each participant must have paper, a pen, and a scientific calculator for solving. Please refer to the list of allowed calculators below for your reference.
8. Each participant will start with a zero score in the final round's Easy Level. The Final Score for the Final Ranking will be based on the accumulated points throughout the quiz (Preliminary plus the Final Round scores).
9. All participants will have to wait for the signal from the Quiz Masters/Organizers before answering the questions.





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10. In the Final Round, questions and protests from participants regarding the answer to an item will only be entertained before the start of the next question. If a protest occurs, participants may address their concerns to the Quiz Master, who will convey them to the Board of Judges. The Board of Judges' decision is always final.
11. In case of a tie for the top 10 places, the tie will be broken through their score in Preliminary Round. The contestant who got the higher score will get the higher place. If they are still tied in the scores for the Preliminary Round, then the tie will be broken by the score in Final Round. If still, the tie is not broken, then a do-or-die question will be given. The first contestant who raises the correct answer to the board of judges will be considered the winner. The do-or-die question is not a multiple-choice question.
12. The organizers reserve the right to change all rules and guidelines for this event without prior notice. However, if such circumstance happens, the revised rules will be properly disseminated.
13. At the end of the EMSS ABRASAHAN 2023 Challenge.
 - A. Certificates of Participation shall be given to all the participants and coaches.
 - B. Certificates of Recognition and prizes will be given to:

Champion - Certificate of Recognition and 10,000 pesos

2nd Place - Certificate of Recognition and 7,500 pesos

3rd Place - Certificate of Recognition and 5,000 pesos

Top 4-10 - Consolation Prizes

(Winners will receive the prizes within 3-7 days after the event)

14. Kindly fill out the evaluation form that will be sent by the facilitator after the quiz. Note: NO EVALUATION, NO CERTIFICATE.

ANSWER FORMAT

The format of the answer in a problem-solving problem should be rounded off to the nearest two (2) decimal places using accurate units, unless otherwise tangible or whole answers are required (i.e., 10 rabbits, 541 vehicles). Only the final answer may be rounded off, as rounding off intermediate numbers may generate enough error to make answers "incorrect." In some situations where questions require a certain format for the answer, the students should follow what is stated in that specific problem (i.e., two significant figures, fraction format, radical form, three decimal places). For identification-type questions, answers must be given completely and accurately spelled out, and acronyms will be considered wrong. Please follow these formatting guidelines to ensure that your answers will be considered correct.





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LIST OF ALLOWED CALCULATORS

AURORA CALCULATORS						
2512	DT210	DT-394	HC115	HC193	HL-125	SC-120
DB453B	DT303	EB-964	HC133	HC205	MS-270LA	SC582
DT120Vplus	DT-393	HC106	-	-	-	-

SHARP SCIENTIFIC CALCULATORS						
CH-312	EL-231L	EL-331A	EL-500M	EL-509G	EL-520W	EL-6750
CH-412	EL-240S	EL-334F	EL-501 (BK)	EL-509R	EL-531GH	EL-6810
CH-612	EL-242M	EL-337C	EL-501V	EL-509V	EL-531RH	EL-6850
EL=124A	EL-243S	EL-338F	EL-501W	EL-509V/531W	EL-531VH	EL-771C
EL-144A	EL-250S	EL-339H	EL-506P	EL-510R	EL-531W	EL-M332
EL-125A	EL-310A	EL-376S	EL-506R	EL-520G	EL-546L	EL-M711G
EL-145A	EL-310A-GR	EL-378S	EL-506V	EL-520V	EL-546VA	EL-W211G
EL-2125	EL-327S	EL-379S	EL-506W	EL-520V (BK)	EL-556G	EL-W531
EL-233S	EL-330A	EL-421M	EL-509D	EL-520VA	EL-6053	-

CANON SCIENTIFIC CALCULATORS						
AD-11	HS-1200 TV	LC-500H B	LS-1200T	LS-12TC	LS-88Hi	TS-120 TL
BS-1200TS	HS-1200RS	LC-500H G	LS-120H	LS-12TU	LS-88Hi II	TS-1200TG
CC-55	HS-1200TS	LS-10 DT	LS-120Hi	LS-153TS	LS-88HV B	TS-120TL
F-502	HS-1200TSV	LS-100 TSV	LS-120Hi II	LS-154H	LS-88HV G	TS-120TS
F-502G	HS-1210TC	LS-100DT	LS-120L	LS-154TG	LS-88HV Y	TS-121TC
F-604	HS-20 TG	LS-100TC	LS-120RS	LS-22TC	LS-88V	TX-1210 E
F-710	KC-20	LS-100TS	LS-120TSG	LS-270H	LS-88V II	TX-1210Hi
F-715S	KS-1200TS	LS-100TSV	LS-120TU	LS-270V II	LS-QT	TX-1210Hi II
F-720	LC-210 Hi II	LS-101H	LS-120V	LS-330H	MP-120LTS	TX-12H
F-720i	LC-210HI	LS-102Z	LS-120V II	LS-355TS	MP-1211LTS	WS-112H
F-760S	LC-210Hi B	LS-103TC	LS-120V-B	LS-39H	MP-121DTS	WS-1200TV
F-788DX	LC-210Hi G	LS-10DT	LS-120V-G	LS-566H	MP-1411LTS	WS-1210Hi
FC-45S	LC-210Hi II G	LS-120 Hi	LS-120V-P	LS-63TG	P1-DTS II	WS-1210Hi II
FC-4S	LC-210Hi II GR	LS-120 RS	LS-121TC	LS-82Z	P23-DTS II	WS-1210T
HS-1000TG	LC-210Hi II PB	LS-120 TU	LS-122R	LS-83TC	P3420-DL	WS-1410 T
HS-1200 T	LC-210Hi Y	LS120 V	LS-123TC	LS-88 L	TS-10TS	WS-1610 T





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OLYMPIA CALCULATORS					
ARCUS 1	HL-88L	LCD-612ST	SD-100HW	SD-805M	SD-828
HL-110	LCD-186	SD-100H	SD-100V	SD-81H	SD-835

CASIO SCIENTIFIC CALCULATORS						
530	DS-208H	fx-500A	fx-82SX	J-120TE	MS-10TV	NS-10T
20V	DS-20TV	fx-500ES	fx-82TL	JF-120TV	MS-10V	NS-20T
470LA	DS-2TV	fx-506G	fx-85B	JF-200TV	MS-10VC	NS-310TM
D-100V	DS-3V	fx-506M	fx-85ES	JS-10LA	MS-115	O-40M
D-120TE	DS-881	fx-509D	fx-85ES PLUS	JS-10TV	MS-120TE	SL-100L
D-120TV	DW120TV	fx-509G	fx-85MS	JS-110TV	MS-120TV	SL-100VC
D-208H	fx-95ES PLUS	fx-520G	fx-85S	JS-120TV	MS-170LA	SL-1000TV
D-20L	fx-100D	fx-531GH	fx-85SA	JS-140V	MS-170T	SL-1100
D-20M	fx-100MS	fx-546D	fx-901	JS-20LA	MS-20TV	SL-200TE
D-40L	fx-100S	fx-570AD	fx-911W	JS-20TV	MS-20V	SL-210TE
D-60L	fx-100W	fx-570ES	fx-95	JS-40LA	MS-240T	SL-220TE
D-60M	fx-115D	fx-570ES PLUS	fx-95MS	JS-40V	MS-270LA	SL-300LV
DF100	fx-115MS	fx-570MS	fx-991ES	JS-SC	MS-270T	SL-300TV
DF120TM	fx-115S	fx-570S	fx-991ES PLUS	JW120TV	MS-310TM	SL-305TE
DF120TV	fx-122S	fx-570W	fx-991H	JW200	MS-350	SL-315TV
DF-240LB	fx-220	fx-580	fx-991MS	LC-1000T	MS-373	SL-320TV
DF-320TM	fx-250HC	fx-580D	fx-991N	LC-1000T/TV	MS-470	SL-320V
DJ-120T	fx-260	fx-65	fx-991S	LC-160LV	MS-470LA	SL-340VA
DJ-220	fx-300SA	fx-75	fx-991W	LC-401B	MS-470LB	SL-760LB
DJ-240	fx-300W	fx-82	fx-992S	LC-401L/LV	MS-5VC	SL-787LT
DM-1200T	fx-350D	fx-820MS	fx-992VB	LC-403LD	MS-7T	SL-797LT
DM-1200TEV	fx-350ES	fx-824	HC100	LC-403LD/TV	MS-808V	SL-910TM
DM-1400TV	fx-350ES PLUS	fx-825X	HL-100LB	M-7LB	MS-80TE	SX-100
DM-1600	fx-350HA	fx-82C	HL-1221	MJ-100	MS-80TV	SX-220
DM-1600TV	fx-350MS	fx-82ES	HL-4	MJ-100T	MS-812TV	SX-300
DN-858A	fx-350TL	fx-82ES PLUS	HL-815L	MJ-120T	MS-8T	SX-300P
DS-10TV	fx-350TLG	fx-82LB	HL-820LV	MS-1002	MS-8TV	SX-320P
DS-120TV	fx-350W	fx-82LP	HL-820V	MS-100TE	MW-5V	WD-220T
DS-1800S	fx-401	fx-82MS	HL-821	MS-100TV	MW-8V	WM-200T
DS-1TV	fx-451M	fx-82Super	HS-8LE	MS-10TE	MX8V	WM-220T

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HEWLETT-PACKARD SCIENTIFIC CALCULATORS

HP 9S	HP30S	HP Office Calc 100	HP Office Calc 300	HP Quickcalc Lifestyle
HP 10S	HP Smartcalc 300S	HP Office Calc 200	HP Easycalc 100	HP Quickcalc Lifestyle

CITIZEN STANDARD CALCULATORS

CT-580	SDC-84407E	SDC-8610	SDC-8620A	SLD-7008	STL-795	W-11S
ET-210	SDC-8560	SDC-8610A	SDC-8975	SLD-742N	TL-780	-

OTHER BRANDS

CEBAR CD402	TL 30XS	KARCE KC 539	PORPO YH-106	TAKSUN TS-217
DAL 506X	KARCE-833	TEXAS TI 30	TIME BIRD SJC-122	TAKSUN TS-128B
LIFELONG	KARCE KC 250	PORPO YH-105	TAKSUN TS-128	-

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March 18, 2024

DR. MAY B. ECLAR

Regional Director
Department of Education
Maimpis, City of San Fernando
Pampanga

Dear **Sir/Madam**:

Greetings of peace and goodwill!

Expanding the horizons of knowledge, the Engineering Mathematics and Science Society as an academic organization of Camarines Sur Polytechnic Colleges is in a continuous journey, molding foundations of academic excellence built through various activities and programs. Improving the acquisition of ideas within the scope of science, technology, engineering, and mathematics (STEM), the organization goes beyond the institution's fences, reaching out to students outside the tertiary education. With this, ABRASAHAN was founded and has been conducted by the organization for two years now.

ABRASAHAN is EMSS's flagship national event consisting of two major components, the STEM Quiz and Webinar. This is participated in by **junior high school and senior high school students nationwide** seeking prowess development in the engineering and sciences fields. The event serves as a platform for students to gain competitive experience while attaining learnings on aligned specified professions.

Challenging the mathematical and scientific prowess of the participants, **ABRASAHAN 2024: EMSS Interscholastic Challenge** is to be conducted on **April 12, 2024**, and **April 13, 2024**, as ABRASAHAN 2024's major component. Focusing on the preservation and protection of the marine environment, **STEM Diving Depths: Water World Webinar** is to be conducted on April 13, 2024. The component will feature speakers in the field of sanitary engineering and marine science tackling topics on marine ecosystems in the context of their specialized area of research.

In line with this, the undersigned is **requesting from your good office to endorse this event to the public and private secondary schools under your supervisions**. Your assistance in this matter will be extremely beneficial to the achievement of the commitment that is a part of every activity we undertake for our fellow students and the community.

Attached herewith are the guidelines and mechanics of the ABRASAHAN: EMSS Interscholastic Quiz 2024.

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Should you have any questions or clarifications regarding this matter, you may reach out to Fernan Matthew Enimedez, event head of ABRASAHAN 2024 through abrasahan2022@gmail.com.

We are hoping for your favorable response to our request.

Thank you and God bless!

Sincerely,

AMADO A. OLIVA, JR., Ph.D.
SUC President III

