

12th



REGIONAL CONGRESS SEAMEO SEARCH FOR YOUNG SCIENTISTS PLUS

“STEM Innovation for Sustainability”

INFORMATION BOOKLET



2 - 6 MARCH 2020

SEAMEO RECSAM, PENANG, MALAYSIA

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IMPORTANT DATES

2019	
DATE	ACTION
30 September 2019	Deadline for submission of (online): <ol style="list-style-type: none"> 1. Project proposals (for YRP) (refer to Appendix 4) 2. 12th Regional Congress SSYS⁺ Forms (for YRP and YIC) <ul style="list-style-type: none"> ➤ Form 1: Registration Form (for Students & Teachers) ➤ Form 2: Students' Confirmation and Parents' Consent Form ➤ Form 3: Registration Form (ONLY for Parents/Observers attending SSYS⁺)
10 October 2019	Acknowledgement of proposals and forms received (via email)
31 October 2019	Notification of successful proposals (online)
31 December 2019	Deadline for submission of full report (online) (should follow format given in Appendix 5 or 6)
2020	
10 January 2020	Acknowledgement of reports received (via email)
31 January 2020	Registration is closed
2 – 6 March 2020	12 th Regional Congress SSYS ⁺ (Delegates are required to submit four (4) printed copies of their project reports)

1. RATIONALE AND BACKGROUND

The Search for SEAMEO Young Scientists (SSYS) was a platform for youths from the SEAMEO member countries to gather and share information of their scientific and mathematical research projects. It was initiated in 1997 and since then, had been held once in every two years with a specific theme.

For the year 2020, the acronym SSYS is rebranded as SSYS⁺, SEAMEO Search for Young Scientists Plus. There are two new elements added to this initiative: (a) extending the participation to youths beyond SEAMEO member countries, and (b) adding a new programme to promote the use of science and mathematics for designing innovative solutions to problems. In other words, the 12th Regional Congress SSYS⁺ comprises of two programmes, namely (a) the Young Researcher Project (YRP), and (b) the Young Inno Challenge (YIC).

The 12th Regional Congress SSYS⁺ aims to develop young scientists who are competent in handling community problems for sustainable development. It encourages youths to fully utilise their potential of being inquisitive and creative when dealing with challenges in real life. Specifically, its main targets include (a) generating strong interest in science and mathematics learning, (b) increasing awareness about the relationship between science, mathematics, technology, and engineering, and (c) fostering camaraderie and networking among these youths through science and mathematics congresses, exhibitions and competitions. Hence, 12th Regional Congress SSYS⁺ seeks to provide opportunities for youths to optimise their vast potentials in conceptualising scientific and mathematical ideas through intellectual teamwork into more tangible research projects and innovative products which will benefit the environment, society and economy.

SEAMEO RECSAM as the leading Centre in Science and Mathematics education has been championing promotion of STEM related activities through teacher education and capacity building programmes. We believe that education is essential in attaining sustainability and the present generation of youths, regarded as the hope of future, should play a crucial role to achieve this mission. Hence, the Centre welcomes submission of science and mathematics YRP and YIC that showcase STEM Innovation, within the context of sustainable development to participate in the 12th Regional Congress SSYS⁺ to be held from 2 to 6 March 2020.

2. OBJECTIVES

The 12th Regional Congress SSYS⁺ is envisioned as a worthy intellectual venture and an effective medium to promote lifelong learning, scientific and mathematical values, interests, skills, attitudes and motivation among the youths. It is hoped that through the 12th Regional Congress SSYS⁺, the societal well-being will be enhanced through developing better quality of science and mathematics education interspersed with technology, environmental, economic and societal awareness.

Specifically, SSYS⁺ aims to:

- 2.1 encourage research and innovation in science and mathematics among youths,
- 2.2 provide a platform for sharing ideas and experiences among youths,
- 2.3 provide a venue for intellectual and social interactions among youths and educators, and
- 2.4 recognise outstanding young scientists in SEAMEO member countries and beyond.

3. THEME

The theme of the 12th Regional Congress SSYS⁺ is ***STEM Innovation for Sustainability***. The focus is to encourage participants to explore STEM Education and demonstrate how the digital era has potentially changed their thinking behaviour due to vast quantities of multi-disciplinary knowledge being easily and readily accessible. Through their YRP and YIC activities, it will be reflected how the digital era has equipped the new generation of youths who are not only able to innovate using skills and knowledge from STEM but are also comfortable intertwining concepts from all areas when solving problems.

4. PARTICIPATION

The 12th Regional Congress SSYS⁺ will be conducted in a friendly atmosphere and participants will have an opportunity to socialise and meet other youths with common interests from SEAMEO member countries and beyond.

- 4.1 Participation is open to all secondary students (excluding pre-university and matriculation levels) from public and private schools recognised by the Ministry of Education of the respective countries.
- 4.2 For the YRP Programme, participants may work on the project alone or in a team (up to 4 students) and must be guided by at least one teacher advisor.
- 4.3 For the YIC Programme, participants **MUST** join as a team (2 to 4 students) and must be accompanied by at least one teacher advisor.
- 4.4 Each student is only allowed to be **registered under one programme only**.
- 4.5 Prizes and certificates will be given only to students and teacher advisors in the participating team.
- 4.6 Officials, parents and observers accompanying the students are welcome on a fee-paying basis.
- 4.7 All participating **students, teachers, officials, parents and observers** must fill in **SSYS⁺ Forms** and submit to the organiser **30 September 2019**.

5. PROGRAMME I: YOUNG RESEARCHER PROJECT (YRP)

5.1 General Guidelines

Each participating team is required to submit a written report prior to the congress. In addition, during the congress, participants are required to present their research project orally to the judges in the presence of general audience in a lecture setting. They are also required to showcase their research project through an exhibition. Each research project will be judged based on the quality of the research project exhibit, oral presentation, written report, and significance of the project.

5.2 Research Project

- 5.2.1 The presentation of the project must be in **English** language.
- 5.2.2 The research project must be the **original work of the students**. Teacher advisors are strictly restricted to play the advisory role only.

- 5.2.3 All research projects should focus on the given theme, be an original work, a result of a current continuing or parallel scientific/mathematical research, and **not a duplication** of any previous research.
- 5.2.4 There are two categories of research project: (a) Science, and (b) Mathematics which must be aligned with the theme of the 12th Regional Congress SYSS⁺.
- 5.2.5 For the category of science project, the areas of research should be related to (a) the application of science in daily lives, or (b) the integration of knowledge in Science (Biology/Chemistry/Physics), Mathematics, Technology (including ICT), Engineering, and Environment.
- 5.2.6 For the category of mathematics project, the area of research should be related to (a) the application of mathematics in solving real-world problems and must be related to one of the following domains: Arithmetic, Algebra, Geometry, Calculus, Probability and Statistics, as well as Discreet Mathematics, or (b) investigation of certain well-known mathematical objects to extend to new ideas, postulations or theorems with certain special properties.
- 5.2.7 The scope of the research projects could include to: (a) demonstrate the application of scientific or mathematical principles, (b) attempt to provide new concepts in the process of designing technology, (c) create technological inventions to meet the needs of societal development, community well-being, and sustainable environment, and (d) promote the socio-economic growth of the society.
- 5.2.8 Failure to comply with any of the rules may result in disqualification.

5.3 Research Project Proposal

All students must submit a **YRP proposal** together with the SSYS⁺ Forms. The research proposal **SHOULD** to be written according to the YRP proposal format provided in Appendix 4. Submission can be made online. Kindly ensure acknowledgement of receipt upon submission. Documents should reach the organiser by **30 September 2019**.

Online Registration and Submission of Proposal: www.recsam.edu.my/sub_ssyz/registration

5.4 Full Research Project Report

- 5.4.1 The format of the written report should strictly follow the sequence as shown in Appendices 5 or 6.
- 5.4.2 All students are required to submit written report of their research project, bound and in soft copy, formatted in MS Word and addressed to the organiser on or before **31 December 2019**.
- 5.4.3 The soft copies may be sent to the Secretariat through this email address: ssysplus@recsam.edu.my. If your file is more than 5MB, kindly use the online uploading method. Please make sure you receive an acknowledgement of receipt from the organiser.
- 5.4.4 Volume of the report should **NOT EXCEED** more than 15 pages.
- 5.4.5 **Four (4) printed copies of reports** must to be submitted during registration. This will be distributed to the judges for judging purpose. No fanciful binding is required.

Online Submission of Full Report: www.recsam.edu.my/sub_ssyz/registration

5.5 Oral Presentation

Every participating team of the Science and Mathematics research project is required to make an oral presentation of their project to the panel of judges and the audience. The rules for oral presentation are as follows:

- Any participant from the research project team may present. Multiple presenters are also allowed.
- Teachers are not allowed to assist the participants during the presentation.
- Presentation should be done using computer, LCD projector and MS PowerPoint or related software, or any non-digital means. All presentation files will be collected during the registration.
- The order of presentation for each project will be determined by drawing lots. The drawing will be done prior to the event and the sequence will be posted on the SSYS+ official website as well as SSYS+ social page.
- Each project is allocated 10 minutes presentation time.
- Immediately after the presentation, a question and answer (Q&A) session by members of the floor will follow (within the time limit provided).

5.6 Research Project Exhibition

All projects will be displayed in an exhibition hall. The panel of judges will first view the exhibition for judging before it is open for public viewing. The exhibits of the research projects on display must:

- fit **two display panels** each with dimensions 3 feet x 4 feet (0.9m x 1.2 m).
- be sturdy and strong/durable with parts firmly attached; lightweight, can be easily set-up and taken down, transportable and self-supporting.
- be complete with accessories with the panels joined with hinges so that the project can be folded and unfolded easily.
- ensure that any information, pictures, graphs, or other images be held down with masking tape for easy removal or re-arrangement.
- observe safety measures in the case of electrical items or presentations with computers or chemicals.
- any live organisms, specimens, poisonous materials or chemicals which are toxic or explosive are strictly prohibited.

Accessories

- During the exhibition of the projects, no ICT equipment and accessories will be provided. Should the delegates require this equipment, they have to secure the equipment by themselves.
- Common science laboratory apparatus and mathematics tools **may be** provided subject to early notification and availability.
- Two display panels, a table, 2 chairs and a power outlet will be provided for each project.

5.7 Removal of Project Exhibits

All project exhibits must not be removed before the closing ceremony.

5.8 Criteria for Judging the Research Projects

All projects under the YRP programme will be judged based on four main components: (a) project exhibit, (b) oral presentation, (c) written report, and (d) significance of project. However, due to the different natures of science and mathematics, the judging criteria for these two categories of projects are slightly different. The detailed criteria for the categories of projects are shown in Table 1 and Table 2.

Table 1
Judging Criteria for Science Projects

COMPONENTS	CRITERIA for SCIENCE PROJECTS	Marks
Presentation of Project Exhibit	<ul style="list-style-type: none"> • Use of scientific principles or approaches • Originality of work • Creativity/innovativeness of work • Quality of display • Explanation and justification on the exhibits 	30
Oral Presentation	<ul style="list-style-type: none"> • Skills in presentation • Scientific thinking and creativity • Responsiveness to questions 	20
Written Report	<ul style="list-style-type: none"> • Abstract • Background of the Study • Purpose of the Study • Literature Review • Method and Process of the Study • Results and Findings of the Study • Discussion and Recommendations • Conclusions 	30
Significance of Project	<ul style="list-style-type: none"> • Relevance to the theme • Benefits to the local community • Contribution to scientific knowledge • Commercial potential 	20
TOTAL		100

Table 2
Judging Criteria for Mathematics Projects

COMPONENTS	CRITERIA for MATHEMATICS PROJECTS (RESEARCH / INVESTIGATIVE PROJECT)	Marks
Presentation of Project Exhibit	<ul style="list-style-type: none"> • Use of mathematical principles or approaches • Originality of work • Creativity/innovativeness of work • Quality of display • Explanation and justification on the exhibits 	30

COMPONENTS	CRITERIA for MATHEMATICS PROJECTS (RESEARCH / INVESTIGATIVE PROJECT)	Marks
Oral Presentation	<ul style="list-style-type: none"> • Skills in presentation • Mathematical thinking and creativity • Responsiveness to questions 	20
Written Report	<ul style="list-style-type: none"> • Abstract • Background of the Study/Description of the Problem • Purpose of the Study/Investigation • Mathematical Theories Involved • Method and Process of the Study/Investigation • Results and Findings of the Study/Investigation • Discussion and Recommendations • Conclusions 	30
Significance of Project	<ul style="list-style-type: none"> • Relevance to the theme • Benefits to the local community • Contribution to mathematical knowledge • Commercial potential 	20
TOTAL		100

5.9 Awards and Prizes for Young Researcher Project (YRP)

YRP consist of two categories of research project: Science and Mathematics. There are three categories of awards for each: (a) the Most Promising Young Scientist Award, (b) the Outstanding Award, and (c) the Special Award. Each award will be accompanied with cash prizes and certificate. In addition, every participant will be presented a certificate of participation. The details of the award are shown in Table 3.

Table 3
Awards of YRP based on Categories

CATEGORIES	AWARDS
Science	Most Promising Young Scientist
	Outstanding Award for each of the following: <ul style="list-style-type: none"> • Presentation of Project Exhibit • Oral Presentation • Research Report • Significant Project
	Special Award for each of the following: <ul style="list-style-type: none"> • Benefic to Local Community • Educational Contribution • Commercial Potential • Application of Scientific Principles & Processes • Creativity /Innovation • Relevancy of Study to the Congress Theme

CATEGORIES	AWARDS
Mathematics	Most Promising Young Scientist
	Outstanding Award for each of the following: <ul style="list-style-type: none"> ● Presentation of Project Exhibit ● Oral Presentation ● Research Report ● Significant Project
	Special Award for each of the following: <ul style="list-style-type: none"> ● Benefic to Local Community ● Educational Contribution ● Commercial Potential ● Application of Mathematical Principles & Processes ● Creativity /Innovation ● Relevancy of Study to the Congress Theme

6. PROGRAMME II: YOUNG INNOhk-V-yk CHALLENGE (YIC)

6.1 General Guidelines

All Young Inno Challenges (YIC) will be conducted concurrently with YRP activities. Thus, students can only participate in either **YIC or YRP**. Each participating team is required to take part in four inno challenges, namely (a) Energy Converter Challenge, (b) Shock-Absorber Challenge, (c) Business Pitch Challenge , and (d) Systematic Innovative Challenge. The organiser will prepare all materials for the challenges and participants may opt to bring only stationeries such as pencil, pen, ruler, etc.

6.2 Inno Challenges

6.2.1 The Energy Converter Challenge

Each participating team is required to build ONE energy converter that propels a constructed device in a designated area. The main judging criteria for the product is the dimensions of movement. Other than this, the cost of construction and the aesthetic aspect of the product will also be taken into consideration for judging.

6.2.1.1 Materials and Production Requirement

- a) Relevant construction materials will be provided in limited quantity.
- b) Participants are required to build the product within 120 minutes of construction time.
- c) There is no restriction to the dimension of the product.

6.2.1.2 Venue and Competition

- a) The construction of the product will be carried out indoor.
- b) The process of competition will be carried out in a designated area.
- c) Before the competition, each team will be given time to test their product and make necessary adjustment.
- d) Each team is allowed three trials of their product during the actual competition. The best results attained will be considered as the final result.

6.2.1.3 Penalty Clause

During the competing phase, participants are not allowed to touch the product. If this happens, either intentionally or unintentionally, then the score of that trial is zero.

6.2.1.4 Results

- a) This challenge will be judged based on three aspects: (i) the dimension of movement attained by the product, (ii) the design of the product, and (iii) the cost of making the product.
- b) The total score for this challenge will be added to the overall score in order to determine the final winner.

6.2.2 The Shock-Absorber Challenge

Each participating team is required to build ONE structure that could protect an object from being damaged after dropping from a choice of three different heights. The object must be visible when set within the structure. The main judging criteria for this challenge is the design and function. In addition, the cost of construction and the aesthetic aspect of the product will be taken into consideration for judging.

6.2.2.1 Materials and Production Requirement

- a) Relevant materials will be provided in limited quantity.
- b) There are two rounds of dropping the constructed product. For the first round, participants are required to prepare the challenge within 90 minutes. Before the second round, the participants are given 30 minutes to improve the constructed product according to the specified conditions.

6.2.2.2 Venue and Competition

- a) The construction process will be done indoor.
- b) The constructed product will be dropped from a building onto a landing pad.

6.2.2.3 Penalty Clause

- a) Marks will be deducted if the constructed product lands outside the designated landing pad.

6.2.2.4 Results

- a) This challenge will be judged based on four aspects of the product: (i) the height and the state of damages after each drop, (ii) falls within the landing pad, (iii) the design, and (iv) the cost.
- b) The total score for this challenge will be added to the overall score in order to determine the final winner.

6.2.3 Business Pitch Challenge

Each participating team is required to make a 10-minute presentation to sell the team's product (devices) produced in Item 6.2.1 or 6.2.2. The presentation should be done in English language. The main judging criteria for the business pitch is the innovativeness of ideas to sell the products (devices). In addition, the presentation skills will be taken into consideration for judging.

6.2.3.1 Materials and Production Requirement

- a) Computer and projector will be available during the presentation session.
- b) Flip chart and stationeries will be provided.

6.2.3.2 Venue and Competition

- a) Presentation will be done indoor.

6.2.3.3 Penalty Clause

None.

6.2.3.4 Results

- a) This challenge will be judged based on two aspects: (i) the innovativeness of idea to sell their products, and (ii) the presentation skills.
- b) The total score for this challenge will be added to the overall score in order to determine the final winner.

6.2.4 Systematic Innovation Challenge

Each participating team is required to attend a 2-hour workshop on a new method of systematic innovation. This method is known to promote critical thinking, develops creative ideas and can be used by people of all ages. After the workshop, participants are required to apply knowledge of the methods in an innovation challenge.

6.2.4.1 Material and Production Requirement

All materials required will be provided and requirement of production will be notified on the day of challenge.

6.2.4.2 Venue and Competition

Both the production and competition will be done indoor.

6.2.4.3 Penalty Clause

None.

6.2.4.4 Results

The criteria for judging will be based on: (a) innovation, (b) application of the method, (c) execution, (d) presentation quality, and (e) teamwork.

6.3 Awards and Prizes for Young Inno Challenge (YIC)

There are three categories of awards for YIC: (a) the Most Promising Young Inno Award, (b) the Outstanding Award, and (c) the Special Award. Each award will be accompanied with cash prizes, and certificate. In addition, every participant will be presented a certificate of participation. The details of the award are shown in Table 4.

Table 4
Awards of YIC based on Categories

TYPES	AWARDS
Most Promising Award	Most Promising Young Inno
Outstanding Award	<ul style="list-style-type: none"> • Energy Converter Challenge <ul style="list-style-type: none"> ❖ Gold Medal ❖ Silver Medal • Shock-Absorber Challenge <ul style="list-style-type: none"> ❖ Gold Medal ❖ Silver Medal • Business Pitch Challenge <ul style="list-style-type: none"> ❖ Gold Medal ❖ Silver Medal • Systematic Innovation Challenge <ul style="list-style-type: none"> ❖ Gold Medal ❖ Silver Medal
Special Award*	<ul style="list-style-type: none"> • Most Creative Innovator • Most Impressive Presenter

* Subject to change based on the number of participating teams.

7. CONGRESS REGISTRATION FEE

The congress registration fee includes congress materials, rental of display boards, tables, chairs, electrical power supply, certificate, meals and airport transfer (from Penang International Airport to RECSAM and from RECSAM to Penang International Airport). It is recommended that participants stay in RECSAM International House for convenience and comfort.

Table 5
Congress Registration Fees (per participant)

	Fee per Person		
	(A) Twin-sharing	(B) Triple-sharing	(C) Quad-sharing
** International	USD 199	USD 189	USD 179
** Malaysian	MYR 799	MYR 699	MYR 599
* Without accommodation	MYR 499		

* Inclusive of registration fee, event materials, three meals per day, airport transfer and Penang island tour.

** Inclusive of registration fee, event materials, five meals per day, airport transfer, Penang island tour and accommodation for six nights. Check in will be a day before the commencement of the congress and check out will be a day after the congress.

8. PAYMENT DETAILS

All payment must be made by **31 January 2020**. The following are the account details for remittance:

Account Name: **SEAMEO RECSAM**

Account Number: **5571-5700-0647**

Account Type: **Current**

Swift Code: **MBBEMYKL**

Bank Name: **Malayan Banking Berhad**

Bank Address: **345-H, Bangunan Kelab Gelugor, 11700 Pulau Pinang, Malaysia.**

Mode of Payment

a) Bank draft Cheque Local Order (LO) for the sum of USD

b) By direct bank transfer for the sum of USD via Maybank ATM / Cash deposit machine / TT into the SSYS account.

*Note: Copy of your payment slip can either be attached with the registration form online OR by sending us via email to ssysplus@recsam.edu.my. Please indicate your name and project title in the email.

9. CONTACT US

For further information, please contact:

SSYS+ Secretariat

SEAMEO RECSAM

Jalan Sultan Azlan Shah

11700 Gelugor

Pulau Pinang, Malaysia.

Tel: +604 6522 700 | Fax: +604 6522 737

Email: ssysplus@recsam.edu.my

12th REGIONAL CONGRESS SEAMEO SEARCH FOR YOUNG SCIENTISTS PLUS (SSYS⁺)

TENTATIVE PROGRAMME

DAY/TIME	8.30 AM	10.30 AM	11.00 AM	1.00 PM	2.30 PM	4.30 PM	EVENING*
2 March 2020 (Monday)	8.00 – 9.20 AM Registration 9.30 – 10.00 AM Opening Ceremony 10.00 – 10.30 AM Briefing	Group Photo & TEA BREAK	YRP: Setup of Project Exhibits YIC: Energy Converter Challenge I	LUNCH	YRP: Setup of Project Exhibits (cont.) YIC: Energy Converter Challenge II	TEA BREAK	FREE
3 March 2020 (Tuesday)	YRP: Oral Presentation I YIC: Shock-Absorber Challenge I	TEA BREAK	YRP: Oral Presentation II YIC: Shock-Absorber Challenge II	LUNCH	YRP: Oral Presentation III YIC: Preparation of Challenges	TEA BREAK	FREE
4 March 2020 (Wednesday)	YRP: Judging of Project Exhibits I YIC: Business Pitch Challenge I	TEA BREAK	YRP: Judging of Project Exhibits II YIC: Business Pitch Challenge II	LUNCH	YRP: Judging of Project Exhibits III YIC: Systematic Innovation Workshop	TEA BREAK	SSYS ⁺ Welcome Dinner
5 March 2020 (Thursday)	YRP: Judging of Project Exhibits IV YIC: Systematic Innovation Challenge I	TEA BREAK	YRP: Public Exhibition YIC: Systematic Innovation Challenge II	LUNCH	2.00-5.30 PM Penang Island Tour		
6 March 2020 (Friday)	YRP & YIC: Public Exhibition	TEA BREAK	Motivation Session	12.15PM - 2.30PM LUNCH	2.45 – 5.00 PM Award Presentation Ceremony & Hi-Tea		

* The organiser reserves right to make changes to this programme.

APPENDICES

**REGISTRATION FORM
(for STUDENTS and TEACHERS)**

Please fill all columns accordingly and submit this form to the SSYS+ Secretariat not later than **30 September 2019**.

Country				
Type of Participation	YRP		Science	
			Mathematics	
	YIC			
Title of Project				
School Name				
School Address				
School Phone		School Fax		
School email				

Student 1

Name						
Gender	Male		Female		Age	
Passport No.			Date of Birth			
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

Student 2 (leave empty if none)

Name						
Gender	Male		Female		Age	
Passport No.			Date of Birth			
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

Student 3 (leave empty if none)

Name						
Gender	Male		Female		Age	
Passport No.			Date of Birth			
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

Student 4 (leave empty if none)

Name						
Gender	Male		Female		Age	
Passport No.			Date of Birth			
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

Teacher Advisor 1

Name						
Position						
Organisation						
Gender	Male		Female			
Passport No.						
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

Teacher Advisor 2 (leave empty if none)

Name						
Position						
Organisation						
Gender	Male		Female			
Passport No.						
Email						
Contact number			Fee Type			
Meal	Vegetarian			Non-Vegetarian		

STUDENTS' CONFIRMATION & PARENTS' CONSENT FORM

Please fill all columns accordingly and submit this form to the SSYS+ Secretariat not later than **30 September 2019**.

To: SSYS+ Secretariat
SEAMEO RECSAM
Jalan Sultan Azlan Shah,
11700 Gelugor, Pulau Pinang, Malaysia
Tel: +604 6522 700 | Fax: +604 6522 737

Dear Sir/Madam

CONFIRMATION OF PARTICIPATION IN THE 12th REGIONAL CONGRESS SEAMEO SEARCH FOR YOUNG SCIENTISTS PLUS (SSYS+) (2 – 6 MARCH 2020) IN SEAMEO RECSAM, PENANG, MALAYSIA

We, the undersigned students and proponents of the project
..... (*title of the research project*)
from..... (*name of school*) representing
..... (*name of country*) hereby **CONFIRM our participation** to the 12th
Regional Congress SEAMEO Search for Young Scientists Plus (SSYS+) from 2 to 6 March 2020 at
Penang, Malaysia and further **certify that the said project is our original work** completed under
the guidance of our teacher advisor, following the guidelines of the congress and subscribe to
abide by all the rules and regulations of the organiser.

We certify that our parents and/ or guardians, whose names and signatures appear below, grant us permission to participate in the **12th Regional Congress SSYS+**. They are fully aware that the organiser will not be held liable and accountable for any untoward incident that may happen to us which are beyond the organiser's control, scope and jurisdiction.

Name of Student 1		Signature	
Name of Parent/ Guardian		Signature	
Name of Student 2		Signature	
Name of Parent/ Guardian		Signature	
Name of Student 3		Signature	
Name of Parent/ Guardian		Signature	
Name of Student 4		Signature	
Name of Parent/ Guardian		Signature	

REGISTRATION FORM
(ONLY for PARENTS/ OBSERVERS attending SSYS+)

Please fill all columns accordingly and submit this form to the SSYS+ Secretariat not later than **30 September 2019**.

Parent/ Observer 1

Name					
Position					
Organisation					
Gender	Male		Female		
Passport No.					
Email					
Contact number			Fee Type		
Meal	Vegetarian			Non-Vegetarian	

Parent/ Observer 2

Name					
Position					
Organisation					
Gender	Male		Female		
Passport No.					
Email					
Contact number			Fee Type		
Meal	Vegetarian			Non-Vegetarian	

Parent/ Observer 3

Name					
Position					
Organisation					
Gender	Male		Female		
Passport No.					
Email					
Contact number			Fee Type		
Meal	Vegetarian			Non-Vegetarian	

PROPOSAL FOR SCIENCE PROJECT

Title of Project:

Team Member(s): (Student 1)
 (Student 2*)
 (Student 3*)
 (Student 4*)
 (Teacher Advisor)
 (Teacher Advisor*)

TABLE OF CONTENT

1. Abstract
2. Background of the Study
3. Purpose of the Study
4. Literature Review
5. Proposed Method and Process of the Study
6. References

PROPOSAL FOR MATHEMATICS PROJECT (STUDY / INVESTIGATION)

Title of Project:

Team Member(s): (Student 1)
 (Student 2*)
 (Student 3*)
 (Student 4*)
 (Teacher Advisor)
 (Teacher Advisor*)

TABLE OF CONTENT

1. Abstract
2. Background of the Study/ Description of the Problem
3. Purpose of the Study/Investigation
4. Mathematical Theory Involved
5. Proposed Method and Process of the Study/Investigation
6. References

Kindly use the following format:

1. Font: Time New Roman | Font size: 12
 - Spacing: 1.5 | Alignment: Justified
 - Page Size: A4 | Indent (Left: 2.5 cm / Right: 2.0 cm/ Top: 2.0 cm/ Bottom: 2.0 cm)
 - APA format for references | Save in doc/docx format. Unlock (enable editing)

APPENDIX 5: FULL REPORT FORMAT FOR SCIENCE PROJECT

FULL REPORT FOR SCIENCE PROJECT

PAGE	DESCRIPTION
Cover Page/Title Page	The cover page contains the title, names of the student researchers, schools/institutions, and advisers. The title should be written in bold, easy-to-read letters.
Abstract	The abstract is a synopsis of the general topic and should provide information about the overall content of the project.
Table of Contents	List all the content areas with the numbering of pages. The number of each page of the report should also be given at the centre or bottom right hand corner of the page.
Acknowledgement	This page contains the list of names, institutions, sponsors, and other collaborators that have been involved in the conduct of the project in one way or another.
Background of the Study	Description of the background of the study.
Purpose of the Study	A statement on the purpose of the study.
Literature Review	Review of literature on the areas relevant to the study.
Method and Process of the Study	Design and detail of the study Materials and equipment Procedures
Results and Findings	Analysis of data Interpretation of results and findings
Discussion and Recommendations	Significance of the findings Suggestions and recommendations
Conclusion	Concluding remarks
References	A list of books, journals and other references used
Appendices	Diagrams, pictures, photos, graphs and other visual images that present the written information accurately or the display of experimental results.

Notes.

1. The written report must adhere to the following format requirements:
 - Font type: Time New Roman | Font size: 12
 - Spacing: 1.5 | Alignment: Justified
 - Page Size: A4 | Indent (Left: 2.5 cm / Right: 2.0 cm/ Top: 2.0 cm/ Bottom: 2.0 cm)
 - APA format for references | Save in doc/docx format. Unlock (enable editing)
2. The written report must not exceed 15 pages.
3. No fanciful binding is required.

APPENDIX 6: FULL REPORT FORMAT FOR MATHEMATICS PROJECT (STUDY / INVESTIGATION)

FULL REPORT FOR MATHEMATICAL STUDY	
PAGE	DESCRIPTION
Cover Page/Title Page	The cover page contains the title, names of the student researchers, schools/institutions, and advisors. The title should be written in bold, easy-to-read letters.
Abstract	The abstract is a synopsis of the general topic and should provide information about the overall content of the project.
Table of Contents	List all the content areas with the numbering of pages. The number of each page of the report should also be given at the centre or bottom right hand corner of the page.
Acknowledgement	This page contains the list of names, institutions, sponsors, and other collaborators that have been involved in the conduct of the project in one way or another.
Background of the Study/ Description of the Problem	Description of the background of the study / key problem being investigated. Identification of the domain in mathematics related to the study/investigation.
Purpose of the Study/ Investigation	A statement on the purpose of the study/ investigation.
Mathematical Theory Involved	Explanation on the key mathematical theory related to the study.
Method and Process of the Study/ Investigation	Procedures of the study/ investigation Materials and equipment Data collection procedure
Results and Findings	Analysis of data Interpretation of results and findings
Discussion and Recommendations	Significance of the findings Extension and relevance to other mathematical theories Suggestions and recommendations
Conclusion	Concluding remarks
References	A list of books, journals and other references used
Appendices	Diagrams, pictures, photos, graphs and other visual images that present the written information accurately or the display of experimental results.

Notes.

1. The written report must adhere to the following format requirements:
 - Font type: Time New Roman | Font size: 12
 - Spacing: 1.5 | Alignment: Justified
 - Page Size: A4 | Indent (Left: 2.5 cm / Right: 2.0 cm/ Top: 2.0 cm/ Bottom: 2.0 cm)
 - APA format for references | Save in doc/docx format. Unlock (enable editing)
2. The written report must not exceed 15 pages.
3. No fanciful binding is required.