



February 12, 2019

REGIONAL ADVISORY

No. 023 s. 2019

25th SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)

**TO: SCHOOLS DIVISION SUPERINTENDENTS
This Region**

1. The 25th Summer Institute in the Natural Sciences and Mathematics (SINSM) with the theme "Updating Senior High School Sciences and Mathematics Education": Content and Competency" shall be held at the University of the Philippines Baguio on April 25-27, 2019.
2. Attached hereto are the invitation letter from Prof. Reymart S. Lagunero, Chairperson SINSM, flyer for the details of the seminar/workshop and program of activities.
3. This advisory is issued to the discretion of the Schools Division Superintendents including the source of funds, if the said activity is very necessary, relevant and educational.
4. For your information and guidance.


FRANCIS CESAR B. BRINGAS, CESO V
OIC- Regional Director

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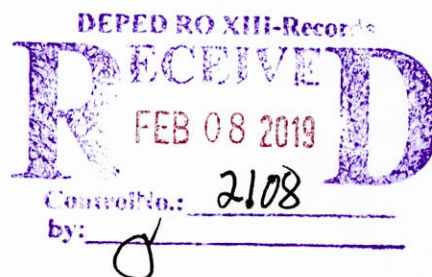
SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS

College of Science, University of the Philippines Baguio
Governor Pack Road, 2600 Baguio City
Tel. No.: (074) 442-7231; Fax No.: (074) 444-3128
Email: sinsm.upbaguio@up.edu.ph



28 January 2019

DR. FRANCIS CESAR B. BRINGAS, CESO VI
Officer-In-Charge
Office of the Regional Director
Department of Education – Region XIII



DEAR DR. BRINGAS:

Greetings!

We are pleased to inform you that the **College of Science, University of the Philippines Baguio** will be undertaking its **25th Summer Institute in the Natural Sciences and Mathematics (SINSM)** with the theme **“Updating Senior High School Science and Mathematics Education: Content and Competency”** at the University of the Philippines Baguio on 25-27 April 2019.

The SINSM is an annual extension service of the College of Science. Since 1990, we had trained and updated secondary and tertiary teachers on the latest development in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, Geology, and recently in Sports Science. Our service is inspired by the very objectives of the Department of Education in its desire to establish and maintain complete, adequate, and integrated system of basic education relevant to the goals of national development through the conduct of lectures and seminar workshops related to these fields.

In connection to this, we are humbly requesting from your good office an advisory regarding this activity. We have attached a copy of the flyer for the details of our seminar/workshop and program of activities for your kind perusal.

Thank you very much in anticipation of your favorable action and continued support to these endeavors. Details are posted in this website: <https://sites.google.com/up.edu.ph/sinsm2019> or email us at sinsm.upbaguio@up.edu.ph for inquiries.

Respectfully,


PROF. REYMART S. LAGUNERO
Chairperson

Noted:


PROF. DYMPHNA N. JAVIER, Ph.D.
Dean


PROF. RAYMUNDO D. ROVILLOS, Ph.D.
Chancellor



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23 January 2019

THE PRINCIPAL/OFFICER-IN-CHARGE

DEAR MA'AM/SIR:

Greetings of service!

We are pleased to invite you to join the 25th Summer Institute in the Natural Sciences and Mathematics (SINSM) of the College of Science, University of the Philippines Baguio with the theme "Updating Senior High School Science and Mathematics Education: Content and Competency" at the University of the Philippines Baguio campus on 25-27 April 2019.

The Summer Institute in the Natural Sciences and Mathematics (SINSM) is an annual extension service of the College that seeks to offer venues by which educators in the Sciences and Mathematics in the Cordillera region, as well as nearby areas, are updated on current issues in these fields. Since 1990, the SINSM has trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, and Geology. Our services are inspired by the very objectives of the Commission on Higher Education (CHED) in its desire to inculcate academic excellence in the teaching of Science and Mathematics-allied degree programs by strongly encouraging the conduct of lectures and seminar workshops that promote interest in and awareness of developments in the basic and advanced Sciences and Mathematics, together with the Department of Education's objectives to establish and maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development.

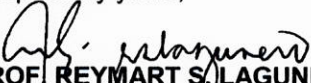
Listed below are the seminar-workshops that will be offered by the College in this year's SINSM.

EVENT	SUBTHEME/TOPIC	EARLY BIRD REGISTRATION	ON-SITE REGISTRATION
Department of Biology	Bringing Botany into the Fore	P2,200	P2,500
Department of Physical Sciences	Upgrading physical science teaching and research in Senior High School	P2,200	P2,500
Department of Mathematics and Computer Science	Strengthening Senior High School and Tertiary Mathematics Instruction	P2,500 (regular) P2,400 (MSP) P1,500 (Student)	P3,000 (regular) P2,700 (MSP) P2,000 (Student)

Payment thru bank deposit (UPCB Educational Foundation, Inc. DBP Baguio Current Account 0510-004420-030) must be received by 25 March 2019 to avail of early bird registration. A copy of the bank transaction receipts should be sent to sinsm.upbaguio@up.edu.ph. All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

We are requesting your good office to disseminate this information to your constituents as well and send them to participate. Thank you very much in anticipation of your favorable action and continuous support to these endeavors. Details are posted in our website: <https://sites.google.com/up.edu.ph/sinsm2019> or email us at sinsm.upbaguio@up.edu.ph for inquiries and reservations.

Respectfully yours,


PROF. REYMART S. LAGUNERO
Chairperson

Noted:







SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)

The
COLLEGE OF SCIENCE
UNIVERSITY OF THE PHILIPPINES
BAGUIO

invites you to its

25TH

Summer Institute in the Natural
Sciences and Mathematics
(SINSM)

with the theme

“UPDATING SENIOR HIGH SCHOOL
SCIENCE AND MATHEMATICS EDUCATION:
CONTENT AND COMPETENCY”

25-27 APRIL 2019
University of the Philippines Baguio



SUMMER INSTITUTE IN THE
SCIENCES AND MATHEMATICS
College of Science
University of the Philippines Baguio
Gov. Pack Road, Baguio City
Email: sinsm.upbaguio@up.edu.ph
Landline No.: (074) 442-7231
Fax No.: (074) 444-3128



ADVISORY

CHED Endorsement and DepEd Advisory regarding 5th SINSM shall be posted and can be downloaded from our website at <https://sites.google.com/up.edu.ph/sinsm2019>

REGISTRATION

	Early Bird	On-site
Math & ComSci	P2,500	P3,000
	P2,400	P2,700
	P1,500	P2,000
Student		
Biology	P2,200	P2,500
Physical Sciences	P2,200	P2,500

REMINDERS

Participants are required to do an online registration by visiting this link: <https://sites.google.com/up.edu.ph/sinsm2019/registration>

For those who are availing the early bird registration, payment can be made through bank deposit* or personal payment**. The payment must be received on or before March 25, 2019. A copy of the bank transaction receipts should be sent to sinsm.upbaguio@up.edu.ph.

All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

*Account Name: UPCB Educational Foundation, Inc.
DBP Current Account Number: 0510-004420-030

**Kindly look for Prof. Reymart S. Lagunero, Department of Mathematics and Computer Science, University of the Philippines Baguio.

CONTACT INFORMATION

For more inquiries and reservation of slots, please contact:

PROF. REYMART S. LAGUNERO

Chairperson

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HUMAN KINETICS PROGRAM

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SUMMER INSTITUTE
THE NATURAL SCIENCES
AND MATHEMATICS

College of Science
University of the Philippines Baguio

25th SINSM THEME:
"Updating Senior High School
Science and Mathematics
Education: Content and
Competency"

25-27 April 2019
University of the Philippines Baguio

DEPARTMENT OF PHYSICAL
SCIENCES

With a theme "Upgrading physical science teaching and research in Senior High School", the Department of Physical Sciences will present a series of lectures with plenary talks and parallel sessions for the disciplines of Physics, Chemistry, and Earth Science/Geology.

Plenary sessions include presentations on (1) how physics, chemistry, and geology are interconnected, (2) strategies in teaching physical sciences in SHS, (3) research proposal writing, and (4) research opportunities for SHS. These talks are to be delivered by invited and local speakers.

In parallel sessions, the discipline of physics will focus on strengthening the foundation of our senior high school educators in the topics of translational and rotational kinematics. With these sessions, we aim to widen the scope and focus on how motion, force, and energy are related. Corresponding workshops on experiments and graphical techniques are also included.

For the Chemistry discipline, the parallel sessions will highlight on the theories of matter, electronic configuration and teaching methods in Senior High School Chemistry. Actual laboratory works, including Flame Test and blended learning activities will be prepared to provide hands-on experience to the participants. With all these, we target to reinforce the skills of Senior High School Teachers on the fundamental concepts and broaden their knowledge in the field of Chemistry.

Sessions in Earth Science/Geology will tackle basic knowledge in rock formation, teaching aids and teaching strategies. A field viewing is also included. This is to reinforce and strengthen competencies of our educators in Earth Science.

For more inquiries please contact:
Ms. Roselle T. Ngalay
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Prof. Paul John A. Mendoza
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amendoza5@up.edu.ph

The Summer Institute in the Natural Sciences and Mathematics (SINSM) is an annual extension service of the College that seeks to offer venues by which educators in the Sciences and Mathematics in the Cordillera region, as well as nearby areas, are updated on current issues in these fields. Since 1980, the SINSM has trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science and Physical Sciences. Our service is inspired by the very objectives of the Commission on Higher Education (CHED) in its desire to inculcate academic excellence in the teaching of Science and Mathematics-allied degree programs by strongly encouraging the conduct of

DEPARTMENT OF MATHEMATICS
AND COMPUTER SCIENCE

The Department of Mathematics and Computer Science adopts the theme "Strengthening Senior High School and Tertiary Mathematics Instruction" for the 25th SINSM.

The department will offer four tracks of lectures from which participants can choose from. The tracks include Pre-Calculus and Basic Calculus, General Mathematics and Statistics, Advanced Calculus, and Website Designing. Each track will focus on solidifying and enhancing the mathematical knowledge and teaching strategy of each participant on the specified subject through a series of intensive lectures. At the end of this training program, each participant is expected to demonstrate correct understanding of the fundamental concepts of his/her chosen track and exhibit improved teaching capability and instructional techniques. The department will also conduct two plenary sessions entitled "Blended Learning" and "Creative Mathematics Teaching, Anyone?"

For more inquiries please contact:
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Mr. Jhunas Paul T. Viernes
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DEPARTMENT OF BIOLOGY

In the 25th SINSM, the Department of Biology adopts the subtheme "Bringing Botany into the Fore".

Having the high school curriculum revised, further strengthening and fortifying concepts in Biology is deemed salutary. This year, the subtheme highlights on the discipline of plant sciences. Salient topics and crucial applications will be given much emphasis during the three-day stretch of the program. Specifically, talks and activities will center on identification of plants using spot characters and dichotomous keys, free-hand sectioning and staining techniques, and an introductory lecture on invasive alien species.

lectures and seminar workshops that promote interest in and developments in the basic and advanced Sciences and together with the Department of Education's objectives to maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development.

The 25th SINSM is scheduled on 25-27 April 2019. Each Department of Science has its own theme, schedule and venue for

It is anticipated that by the end of the program concepts be underscored and brought forward to gear towards a more encompassing and more understanding in Biology.

For more inquiries, please contact:
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Mr. Jerome Monroe P. Bernardino
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HUMAN KINETICS PROGRAM

The Human Kinetics Program will conduct a separate to be scheduled this year.

For inquiries, please contact:
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Ms. Jessica C. Talangchey
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SUMMER INSTITUTE IN THE
SCIENCES AND MATHEMATICS

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Department of Physics Sciences Program
Summer Institute in the Natural Sciences and Mathematics 2019

“Upgrading physical science teaching and research in Senior High School”

	PHYSICS	CHEMISTRY	EARTH SCIENCE/ GEOLOGY
DAY 1			
8:00-9:00	REGISTRATION		
9:00-10:00	OPENING PROGRAM		
10:00-10:30	Snacks		
10:30-12:00	Plenary: Are we Stardust... or Nuclear Debris? (The Origin of the Universe) Dr. Myrna Rodriguez		
12:00-1:00	Lunch Break		
1:00-2:30	Newton’s Laws and Translational Kinematics Prof. Giovanni Malapit	Theories of Matter and the Electronic Structure: A Walk through History Prof. Ofelia Giron	POGI (Places of Geologic Interest) Points: An introduction to the geology of famous rock formations Prof. Dymphna Javier
2:30-3:00	Snacks		
3:00-5:00	Workshop: Experiments on Translational Kinematics Prof. Crismar Patacsil	Workshop: Dry Lab: Electronic Configuration of Representative Elements Wet Lab: Flame Test of Common Elements Prof. Ofelia Giron and Mr. Reymark Ereje	Guided Field Viewing Prof. Dymphna Javier
DAY 2			
8:30-10:00	Plenary: Hurdles in teaching senior high school physical science courses: approaches and strategies Ms. Bhazel Anne Pelicano		
10:00-10:30	Snacks		
10:30-12:00	Workshop: Strategies in teaching senior high school physics Ms. Bhazel Anne Pelicano and Ms. Roselle Ngaloy	Blended Learning in Senior High School Chemistry and Earth Science Dr. Vivian A. Topor	
12:00-1:00	Lunch Break		
1:00-2:30	Newton’s Laws and Rotational Kinematics Prof. Giovanni Malapit	Workshop on teaching- learning methodologies in Chemistry Prof. Ofelia Giron and Mr. Reymark Ereje	Engaging exercises for teaching Earth Sciences Prof. Dymphna Javier
2:30-3:00	Snacks		
3:00-5:00	Workshop: Graphical and visual representation in Rotational Mechanics		

DAY 3	
8:30-10:00	Plenary: Research Writing Prof. Alipio Garcia
10:00-10:30	Snack
10:30-12:00	Workshop: Research Writing Prof. Alipio Garcia
12:00-1:00	Lunch Break
1:00-2:30	Plenary: Research opportunities in Senior High School Invited speaker from DOST CAR
2:30-3:00	Snacks
3:00-3:30	Closing Program



DEPARTMENT OF BIOLOGY
College of Science
University of the Philippines
Baguio City

SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS

THEME: <i>Bringing Botany into the Fore</i>		
Day 1		
7:30-9:00	Registration	ComSci Lab
9:00-10:00	Opening Program	Oblation Ground
10:00-10:30	Snack Break	IB 105
10:30-10:45	Introduction to Biology SINSM 2018	CS-AVR
10:45-11:45	<i>Overview of what plants are</i>	CS-AVR
11:45-12:00	Open Forum	
12:00-1:00	Lunch break	IB 105
1:00-5:00	Laboratory activity 1: <i>Free-hand sectioning techniques and basic staining procedure</i>	KA 203
Day 2		
8:00-8:45	<i>The Use of Dichotomous Key in Plant Identification</i>	KA 203
8:45-9:30	<i>The Use of Spot Characters for Rapid Plant Identification</i>	KA 203
9:30-12:00	Laboratory activity 2: <i>Plant Identification using Dichotomous Key</i>	KA 202
12:00-1:00	Lunch break	IB 105
1:00-5:00	Field Activity 1: <i>Plant Identification using spot characters</i>	Botanical Garden
Day 3		
8:00-9:00	<i>An Introduction to Invasive Alien Species</i> By: Prof. Celia M. Austria	CS-AVR
9:00-10:30	Special Lecture By: Sponsor	CS-AVR
10:30-11:00	Snacks	IB 105
11:00-12:00	Closing Program	CS-AVR
12:00-1:00	Lunch break	IB 105

END

In the 25th SINSM, the Department of Biology adopts the subtheme “**Bringing Botany into the Fore**”.

Having the high school curriculum revised, further strengthening and fortifying concepts in Biology is deemed salutary. This year, the subtheme highlights on the discipline of plant sciences. Salient topics and crucial applications will be given much emphasis during the three-day stretch of the program. Specifically, talks and activities will center on identification of plants using spot characters and dichotomous keys, free-hand sectioning and staining techniques, and an introductory lecture on invasive alien species.

It is anticipated that by the end of the program, Botanical concepts be underscored and brought forward to ultimately gear towards a more encompassing and more significant understanding in Biology.



Department of Mathematics and Computer Science
College of Science
University of the Philippines
Baguio City

Department Theme: “Strengthening Senior High School and Tertiary Mathematics Instruction”

Schedule of Program for the Mathematics and Computer Science Cluster

Day	Time	LECTURES			
Thursday	10:30 – 12:00 NN	Plenary 1 (Sarmiento Hall)			
	12:00 – 1:00 PM	Lunch break			
	1:30 – 3:00 PM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
	3:00 – 3:30 PM	PM Snacks			
	3:30 – 5:00 PM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
Friday	8:30 – 10:00 AM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
	10:00 - 10:30 AM	AM Snacks			
	10:30 – 12:00 NN	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
	12:00 – 12:45 PM	Lunch break			
	12:45 – 1:30 PM	MSP (CAR, Region I, II, III) GENERAL ASSEMBLY - ELECTION			
	1:30 – 3: 00 PM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
	3:00 – 3:30 PM	PM Snacks			
	3: 30 – 5:00 PM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
Saturday	8:30 – 10:00 AM	Pre-Calculus and Basic Calculus (KA 402)	General Mathematics and Statistics (IB 104)	Advanced Calculus (IB 105)	Website Designing (KA 301)
	10:00 – 10:15 AM	AM Snack			
	10:15 – 11:00 AM	Photo Ops (Oblation Grounds)			
	11:00 – 12:30 PM	Plenary 2 (Sarmiento Hall)			
	12:30 – 1:30 PM	Lunch Break			
	1:30 – 2:00 PM	Special Lecture 1 (Sarmiento Hall)			
	2:30 – 3:00 PM	Special Lecture 2 (Sarmiento Hall)			
	2:30 – 3:00 PM	Special Lecture 3 (Sarmiento Hall)			
	3:00 – 4:00 PM	PM Snacks / Awarding of Certificates			
END					

TRACKS:

TRACK A (PRE-CALCULUS and BASIC CALCULUS)

Day	Time	LECTURES
Thursday	10:30 – 12:00 NN	Plenary 1 (Sarmiento Hall)
	12:00 – 1:00 PM	Lunch break
	1:30 – 3:00 PM	Lecture 1 (KA 402)
	3:00 – 3:30 PM	PM Snacks
	3:30 – 5:00 PM	Lecture 2 (KA 402)
Friday	8:30 – 10:00 AM	Lecture 3 (KA 402)
	10:00 - 10:30 AM	AM Snacks
	10:30 – 12:00 NN	Lecture 4 (KA 402)
	12:00 – 12:45 PM	Lunch break
	12:45 – 1:30 PM	MSP (CAR, Region I, II, III) GENERAL ASSEMBLY - ELECTION
	1:30 – 3: 00 PM	Lecture 5 (KA 402)
	3:00 – 3:30 PM	PM Snacks
	3: 30 – 5:00 PM	Lecture 6 (KA 402)
Saturday	8:30 – 10:00 AM	Lecture 7 (KA 402)
	10:00 – 10:15 AM	AM Snack
	10:15 – 11:00 AM	Photo Ops (Oblation Grounds)
	11:00 – 12:30 PM	Plenary 2 (Sarmiento Hall)
	12:30 – 1:30 PM	Lunch Break
	1:30 – 2:00 PM	Special Lecture 1 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 2 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 3 (Sarmiento Hall)
	3:00 – 4:00 PM	PM Snacks / Awarding of Certificates
END		

Topics:

- 1. Analytic Geometry
- 2. Series and Mathematical Induction
- 3. Trigonometry
- 4. Limits and Continuity
- 5. Derivatives
- 6. Integration

Lecturers:

- 1. Prof. Gervy Marie Angeles
- 2. Prof. Juancho Collera
- 3. Prof. Priscilla Macansantos
- 4. Prof. Anthony Pasion

Facilitator:

- 1. Mr. Kimben Gonzales

Plenary Speakers:

- 1. **Blended Learning**
By Prof. Joel Addawe
- 2. **Creative Math Teaching, Anyone?**
By Prof. Alleli Ester Domingo

REMINDER: Due to limitation of space,
please remain in the tracks assigned to you

TRACK B (GEN. MATHEMATICS and STATISTICS)

Day	Time	LECTURES
Thursday	10:30 – 12:00 NN	Plenary 1 (Sarmiento Hall)
	12:00 – 1:00 PM	Lunch break
	1:30 – 3:00 PM	Lecture 1 (IB 104)
	3:00 – 3:30 PM	PM Snacks
	3:30 – 5:00 PM	Lecture 2 (IB 104)
Friday	8:30 – 10:00 AM	Lecture 3 (IB 104)
	10:00 - 10:30 AM	AM Snacks
	10:30 – 12:00 NN	Lecture 4 (IB 104)
	12:00 – 12:45 PM	Lunch break
	12:45 – 1:30 PM	MSP (CAR, Region I, II, III) GENERAL ASSEMBLY - ELECTION
	1:30 – 3: 00 PM	Lecture 5 (IB 104)
	3:00 – 3:30 PM	PM Snacks
	3: 30 – 5:00 PM	Lecture 6 (IB 104)
Saturday	8:30 – 10:00 AM	Lecture 7 (IB 104)
	10:00 – 10:15 AM	AM Snack
	10:15 – 11:00 AM	Photo Ops (Oblation Grounds)
	11:00 – 12:30 PM	Plenary 2 (Sarmiento Hall)
	12:30 – 1:30 PM	Lunch Break
	1:30 – 2:00 PM	Special Lecture 1 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 2 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 3 (Sarmiento Hall)
	3:00 – 4:00 PM	PM Snacks / Awarding of Certificates
END		

Topics:

- 1. Functions and Their Graphs
- 2. Basic Business Mathematics
- 3. Logic
- 4. Statistics and Probability

Lecturers:

- 1. Prof. Rizavel Addawe
- 2. Prof. Andrei Domogo
- 3. Prof. Joy Ascaño

Plenary Speakers:

- 1. **Blended Learning**
By Prof. Joel Addawe
- 2. **Creative Math Teaching, Anyone?**
By Prof. Alleli Ester Domingo

Facilitator:

- 1. Ms. Olive Cawiding

REMINDER: Due to limitation of space,
please remain in the tracks assigned to you

Schedule of Program for the Mathematics and Computer Science Cluster

TRACK C (ADVANCED CALCULUS)

Day	Time	LECTURES
Thursday	10:30 – 12:00 NN	Plenary 1 (Sarmiento Hall)
	12:00 – 1:00 PM	Lunch break
	1:30 – 3:00 PM	Lecture 1 (IB 105)
	3:00 – 3:30 PM	PM Snacks
	3:30 – 5:00 PM	Lecture 2 (IB 105)
Friday	8:30 – 10:00 AM	Lecture 3 (IB 105)
	10:00 - 10:30 AM	AM Snacks
	10:30 – 12:00 NN	Lecture 4 (IB 105)
	12:00 – 12:45 PM	Lunch break
	12:45 – 1:30 PM	MSP (CAR, Region I, II, III) GENERAL ASSEMBLY - ELECTION
	1:30 – 3: 00 PM	Lecture 5 (IB 105)
	3:00 – 3:30 PM	PM Snacks
	3: 30 – 5:00 PM	Lecture 6 (IB 105)
Saturday	8:30 – 10:00 AM	Lecture 7 (IB 105)
	10:00 – 10:15 AM	AM Snack
	10:15 – 11:00 AM	Photo Ops (Oblation Grounds)
	11:00 – 12:30 PM	Plenary 2 (Sarmiento Hall)
	12:30 – 1:30 PM	Lunch Break
	1:30 – 2:00 PM	Special Lecture 1 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 2 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 3 (Sarmiento Hall)
	3:00 – 4:00 PM	PM Snacks / Awarding of Certificates
	END	

Topics:

- 5. Polynomial Approximations, Sequences and Infinite Series
- 6. Area of a Plane Region, Volume of Solids and Arc Length
- 7. Differential Calculus of Functions of More Than One Variable

Plenary Speakers:

- 1. **Blended Learning**
By Prof. Joel Addawe
- 2. **Creative Math Teaching, Anyone?**
By Prof. Alleli Ester Domingo

Lecturers:

- 1. Prof. Jerico Bacani
- 2. Prof. Edna Gueco
- 3. Prof. Gilbert Peralta

Facilitator:

- 1. Mr. Jhunus Paul Viernes

REMINDER: Due to limitation of space, please remain in the tracks assigned to you

Schedule of Program for the Mathematics and Computer Science Cluster

TRACK D (WEBSITE DESIGNING)

Day	Time	LECTURES
Thursday	10:30 – 12:00 NN	Plenary 1 (Sarmiento Hall)
	12:00 – 1:00 PM	Lunch break
	1:30 – 3:00 PM	Lecture 1 (KA 301)
	3:00 – 3:30 PM	PM Snacks
	3:30 – 5:00 PM	Lecture 2 (KA 301)
Friday	8:30 – 10:00 AM	Lecture 3 (KA 301)
	10:00 - 10:30 AM	AM Snacks
	10:30 – 12:00 NN	Lecture 4 (KA 301)
	12:00 – 12:45 PM	Lunch break
	12:45 – 1:30 PM	MSP (CAR, Region I, II, III) GENERAL ASSEMBLY - ELECTION
	1:30 – 3: 00 PM	Lecture 5 (KA 301)
	3:00 – 3:30 PM	PM Snacks
	3: 30 – 5:00 PM	Lecture 6 (KA 301)
Saturday	8:30 – 10:00 AM	Lecture 7 (KA 301)
	10:00 – 10:15 AM	AM Snack
	10:15 – 11:00 AM	Photo Ops (Oblation Grounds)
	11:00 – 12:30 PM	Plenary 2 (Sarmiento Hall)
	12:30 – 1:30 PM	Lunch Break
	1:30 – 2:00 PM	Special Lecture 1 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 2 (Sarmiento Hall)
	2:30 – 3:00 PM	Special Lecture 3 (Sarmiento Hall)
	3:00 – 4:00 PM	PM Snacks / Awarding of Certificates
	END	

Topics:

- 1. HTML Basics: Links, Images, Colors, Tables
- 2. Cascading Style Sheets
- 3. Client Side Scripting: Javascript with CSS
- 4. Client Side Scripting: Javascript with Forms
- 5. Server-side scripting: PHP
- 6. Introduction to Moodle
- 7. Webserver setup

Plenary Speakers:

- 1. **Blended Learning**
By Prof. Joel Addawe
- 2. **Creative Math Teaching, Anyone?**

By Prof. Alleli Ester Domingo

Lecturers:

- 1. Prof. Lee Javellana

Facilitator:

- 1. Ms. Ashlyn Kim Balangcod

REMINDER: Due to limitation of space, please remain in the tracks assigned to you

Registration Details

<i>Early Bird:</i> Php 2,500.00 (regular) Php 2,400.00 (for MSP Members) Php 1,500.00 (for Students) Pay on or before 25 March 2019	Participants who are availing the early bird registration are required to do an online registration by visiting the link: https://sites.google.com/up.edu.ph/sinsm2019/registration Payment can be made through bank deposit* or personal payment**. The payment must be received on or before <u>25 March 2019</u>. A copy of the bank transaction receipts must be sent to sinsm.upbaguio@up.edu.ph Participants who will register early will be given priority in choosing and reserving their respective tracks. *Account Name: UPGB Educational Foundation, Inc. DBP Current Account Number: 0510-004420-030 **Kindly look for Prof. Reymart S. Lagunero Department of Mathematics and Computer Science UP Baguio.
<i>Walk-In:</i> Php 3,000.00 Php 2,700.00 (for MSP Members) Php 2,000.00 (for students)	The tracks of walk-in participants will be assigned to them by the department depending on the number of slots left in each track.