Advisory No. 007, s. 2025
February 05, 2025
In compliance with DepEd Order (DO) No. 8, s. 2013
this advisory is issued not for endorsement per DO 28, s. 2001
but only for the information of DepEd officials,
personnel/staff, as well as the concerned public.
(Visit www.deped.gov.ph)

MATHTEX 2025 Teacher Training on Basic Probability

The MATHTEX 2025 invites secondary school teachers to participate in the Basic Probability teacher training, to be held online from April 24-26, 2025. The training aims to enhance teachers' understanding and teaching methods in Basic Probability, a crucial area of mathematics education that helps in developing students' analytical and critical thinking skills in counting techniques, probability, and random variables and distributions.'

A registration fee of PhP 1,000.00 will be collected for teachers and PhP 750.00 for BSEd (Math/Stat Majors). Participation of interested DepEd officials/personnel/staff is **personal and on a voluntary basis** and shall be subjected to no-disruption-of-classes policy as stipulated in DepEd Order No. 9, s. 2005 titled "Instituting Measures to Increase Engaged Time-On-Task and Ensuring Compliance Therewith".

Attached is the communication letter for detailed information.

For inquiries, clarification, or assistance, please contact:
- EDD FRANCIS O. FELIX, *Assistant Professor and Head of MATHTEX 2025*
- Email: mathtex.uplbmath@gmail.com

OSDS/NDE/acb
February 05, 2025

MATHTEX 2025: Training on
Basic Probability
April 24-26, 2025
Institute of Mathematical Sciences
University of the Philippines Los Baños

Description: MATHTEX 2025 is a three-day intensive training on Basic Probability covering counting techniques, basic probability, and random variables and probability distributions. Esteemed mathematics professors will deliver lectures from the Institute of Mathematical Sciences (IMS), University of the Philippines Los Baños (UPLB). Each lecture will be followed by breakout sessions where the participants will be given time to apply what they learned by answering exercises under the supervision of equally knowledgeable facilitators.

Rationale: The Mathematics Teachers Exchanges (MATHTEX) has been a project of the Institute of Mathematical Sciences of UPLB (formerly known as the Institute of Mathematical Sciences and Physics) since 2012. This project aims to address essential needs within high school mathematics education by focusing on its three core objectives. Firstly, it seeks to enhance the teaching skills of teachers, as this is pivotal in fostering a more engaging and effective learning environment for students. Secondly, the project aims to establish a collaborative platform for high school teachers to share their best practices in teaching mathematics. Lastly, MATHTEX focuses on advancing the mastery of mathematical concepts among high school teachers.

This year, MATHTEX focuses on counting techniques, basic probability, and random variables and probability distributions. These topics are often regarded as challenging, not only for students to grasp, but also for teachers to convey effectively. Mastery of counting techniques and probability helps teachers develop logical reasoning and problem-solving skills, which they can impart to students. This training program will also aid the participants with innovative and interactive teaching approaches, including practical illustrations, games, or visual aids, making abstract concepts more understandable and interesting for students. As counting techniques and probability are foundational to various fields such as data science, finance, and engineering, effective teaching equips students with skills relevant to future academic endeavors and career paths.

MATHTEX 2025 aligns seamlessly with the newly implemented MATATAG curriculum by the Department of Education for the S.Y. 2024-2025. This curriculum introduces Grade 7 students to data collection from experiments and the description of outcomes using words and symbols. In the following grade levels, fundamental counting techniques, the probability of events, and random variables will be discussed. MATHTEX 2025 will be invaluable for high school teachers as they prepare to teach these topics in the upcoming years.

Target Participants: High School Teachers and College Education Students

Objectives: At the end of MATHTEX 2025, the participants are expected to apply content knowledge and pedagogy on fundamental concepts in Probability such as:
(1)   counting techniques;
(2)   basic probability; and
(3)   random variables and probability distributions.

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SCHEDULE OF ACTIVITIES

DATE	TIME	ACTIVITIES
DAY 1 **April 24, 2025** **Thursday**	**7:00 – 8:00**	Registration
	8:00 – 8:30	Opening Program
	8:30 – 9:00	Pre-Test
	9:00 – 10:00	**Popular Talk** *Speaker: Lester Charles A. Umali, PhD*
	10:00 – 10:15	*Break*
	10:15 – 12:00	**Lecture 1: Counting Techniques** Mastering the Art of Counting: Principles and Strategies *Speaker: Ben Paul B. Dela Cruz, MSc*
	12:00 – 1:00	*Lunch Break*
	1:00 – 2:15	**Lecture 1: Counting Techniques** Mastering the Art of Counting: Principles and Strategies *Speaker: Ben Paul B. Dela Cruz, MSc*
	2:15 – 2:30	*Break*
	2:30 – 5:00	**Break-out Session 1**
DAY 2 **April 25, 2025** **Friday**	**8:00 – 8:30**	**Recap and Energizer**
	8:30 – 10:00	**Lecture 2: Basic Probability** From Coin Tosses to Real-world Events: Understanding Probability *Speaker: Diane Carmeliza N. Cuaresma, DSc*
	10:00 – 10:15	*Break*
	10:15 - 11:45	**Lecture 2: Basic Probability** From Coin Tosses to Real-world Events: Understanding Probability *Speaker: Diane Carmeliza N. Cuaresma, DSc*
	11:45 – 1:00	*Lunch Break*
	1:00 – 4:00	**Break-out Session 2**
	4:00 – 5:00	**Sponsors' Presentations**
DAY 3 **April 26, 2025** **Saturday**	**8:00 – 8:30**	**Recap and Energizer**
	8:30 – 10:00	**Lecture 3: Random Variables and Probability Distributions** Exploring Randomness: Random Variables and Probability Distributions *Speaker: Jonathan B. Mamplata, MSc*
	10:00 – 10:15	*Break*
	10:15 – 11:45	**Lecture 3: Random Variables and Probability Distributions** Exploring Randomness: Random Variables and Probability Distributions *Speaker: Jonathan B. Mamplata, MSc*
	11:45 – 1:00	*Lunch Break*
	1:00 – 4:00	**Break-out Session 3**
	4:00 – 4:30	Post-Test and Evaluation
	4:30 – 5:00	Closing Program

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Details of the Speakers

Diane Carmeliza N. Cuaresma, PhD
Associate Professor
Specialization: Evolutionary Game Theory

Jonathan B. Mamplata, MSc
Assistant Professor
Specialization: Mathematical Finance

Ben Paul B. Dela Cruz, MSc
Assistant Professor
Specialization: Data Science and Analytics

Lester Charles A. Umali, PhD
Assistant Professor
Specialization: Probability and Risk Theory

Registration Procedure

To formally secure your spot in the Training Program on Basic Probability, please complete your registration through the following Google Form: https://tinyurl.com/MATHTEX2025reg

Important Registration Information:
- **Registration Fee:** To make this valuable training opportunity accessible to all, the registration fee for teachers is PHP 1,000 while for BSEd (Math/Stat Majors) is PhP 750.
- **Payment Instructions:** Kindly pay your registration fee through the following bank account:
  - **Bank:** Bank of the Philippine Islands (Account of MSP CALABARZON)
  - **Account Name:** Mathematical Society of the Phils. Calabarzon Chapter
  - **Account Number:** 0913-2792-04
- **Proof of Payment:** Please retain a screenshot or scanned copy of your deposit slip or transaction confirmation. You must upload this as proof of payment during online registration.

What Your Registration Fee Covers:
Your registration fee contributes towards a comprehensive training experience, including:
- **Professional Development Kit:** You will receive softcopies of valuable resources and materials to enhance your learning.
- **Training-Related Expenses:** Your contribution supports the overall logistics and smooth operation of the program.