

27TH SUMMER INSTITUTE IN NATURAL SCIENCES AND MATHEMATICS **COLLEGE OF SCIENCE** UNIVERSITY OF THE PHILIPPINES BAGUIO



awards this

CERTIFICATE OF PARTICIPATION

Jean Aristonet W. Leyson

for participating in the

27TH SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS:

"Upgrading Senior High School Science And Mathematics Education: Content And Competency Part 2" with the subtheme "Strengthening Senior High School and Tertiary Mathematics Instruction 3.0" with the following topics:

Plenary 1: "Some Topics for Undergraduate and Senior High School Research in Mathematics"; Plenary 2: "Time Delays in Macroeconomic Models and Queueing Theory"; and Track C: Differential Equations,

held via Online Conferencing Platforms on April 6 to 8, 2022.

Given this 18th day of April 2022 at University of the Philippines Baguio, Baquio City, Philippines.

Chairperson, SINSM 2022

Dean, College of Science

27th SINSM

Mathematics and Computer Science Cluster



"Some Topics for Undergraduate and Senior High School Research in Mathematics'

PLENARY 2

"Time Delays in Macroeconomic Models and Queueing Theory"

TRACK A

PRE-CALCULUS AND BASIC CALCULUS

- Conic Equations
- · Mathematical Induction
- · Applications Involving Absolute Extrema · Solutions of Right Triangles and
- . Law of Sines and Cosines

TRACK B

GENERAL MATHEMATICS AND STATISTICS Inverse Functions, Exponential and Logarithmic

- Functions and Equations
- · Logical Fallacies and Tautologies
- Correlation and Regression Analysis Probability Distributions

TRACK C

DIFFERENTIAL EQUATIONS

- and Some Applications · Control and Observation of LTI Systems
- · Parameter Estimation: Calibrating Models with

TRACK D

TOOLS AND CONCEPTS IN COMPUTING

- Web Programming
- · Introduction to Moodle and Moodle Server Setup · Introduction to Agent-based Modeling of Disease
- Dynamics 2.0



