

The Department of Science and Technology Metals Industry Research and Development Center and Mechatronics and Robotics Society of the Philippines

present this

CERTIFICATE OF PARTICIPATION

to

JONAS M. MACAPAGAL

for attending the **Metals and Engineering Week 2025** webinar on

Fractional Circuits: An Emerging Interdisciplinary Research Area

held on June 16, 2025

DR. KRVIN R. DE LA CRUZ

President, MRSP

ROBERT O. DIZON
Executive Director, MIRDC