

The First National Conference on Renewable Energies and Advanced
Electrical Engineering (NC REAEE'25)

May 06-07th, 2025

University of M'Sila

Faculty of Technology

Electrical Engineering Laboratory (LGE)



CERTIFICATE OF PARTICIPATION

This Certificate is Awarded to:

Haroun KOUICI

for presenting a paper entitled: **Optimization and Simulation of Photonic Crystal Coupled Cavity-Waveguide Structures for Sensing**

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Conference Chair

Dr. Abderrahim ZEMMIT

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