

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



May 06-07<sup>th</sup>, 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**

Co-authors: **Hadjira TAYOUB, Ahlam HARHOUZ, Abdesselam HOCINI, Haroun KOUICI, Farida KEBAILI.**  
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**Conference Chair**

Dr. Abderrahim ZEMMIT



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