

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:

LOUAKHCHE Fatiha

for presenting a paper entitled: **Compact SIW Band-pass Filters in [2-12 GHz] for Telecommunication Systems**

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at the First National Conference on Renewable Energies and Advanced Electrical Engineering
(NC-REAEE'25), held at M'Sila University- Algeria, on May 6-7th 2025.

Conference Chair

Dr. Abderrahim ZEMMIT



Paper ID: 148

