

MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH
ABDELHAÏD BOUSSOUF UNIVERSITY OF MILA-ALGERIA
INSTITUTE OF SCIENCES AND TECHNOLOGY

This is to certify that

Noubel Guermat

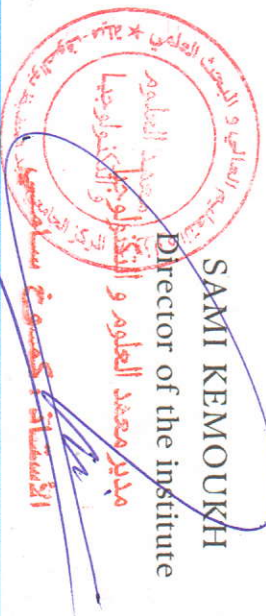
Has participated in the 1st National Seminar on Renewable Energies and Energy Security, at Mila, Algeria, held from December 01 to 02, 2025, with the presentation entitled:

Investigation of structural, optical and electrical properties of F doped Co_3O_4 thin films

Co-Author(s): Warda Darenfad, Kamel Mirouh

SAMI KEMOUKH

Director of the institute



ABDELHAÏD BOUSSOUF

Chair of the Seminar

