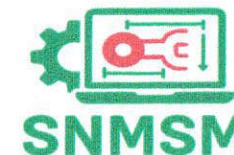




University Mohamed Boudiaf of M'Sila
Faculty of Technology
Mechanical Engineering Department



CERTIFICATE OF PARTICIPATION

This Certificate is awarded to :

Fatima Zohra Bakhti

For the **ORAL** presentation of the paper entitled : ***Numerical Study of Thermal and Hydraulic Behavior of Nanofluids in Perforated Pin-Fin Heat Sinks***

Authors: ***Fatima Zohra BAKHTI, Souad BENKHERBACHE and Nafissa MOUSSAOUI***

at the 1st National Seminar on Structural Mechanics and Materials (SNMSM'25), held at M'Sila University-
Algeria, on October 29-30th 2025.

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Dr. Cherif SAIB

