



## CERTIFICATE OF PARTICIPATION

This is to certify that

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have participated in \*National Conference of Applied Sciences and Engineering NCASE'24\* in an online talk, entitled

**Creation, structure, and magnetic characteristics of physically vapor-deposited iron thin films**

Held in November 17 and 18, 2024 and Organized by the Applied Sciences Laboratory (LSA) of the National Higher School of Advanced Technologies (ENSTA).

This conference brought together researchers, academics, and industry professionals to share insights and advances in applied sciences and engineering.

Conference Chair  
GRAMEZ Abdelghani, PhD



Chair of the Scientific Committee  
ZEMMOURI Hassiba, PhD