



**LMAP**

LABORATORY OF  
MATHEMATICS AND  
APPLIED PHYSICS  
المدرسة العليا للأستاذة - بوسنادة  
ENS-BOUSAADA

Ministry of Higher Education and Scientific Research  
Higher Normal School of Bou Saada  
Department of Science Physics and Laboratory  
of Mathematics and Applied Physics



## CERTIFICATE OF PARTICIPATION

The Organizing Committee of the Second National Conference on Physics and its Applications  
(20 Novembre 2025) is pleased to award this certificate to :

**HELLALI LALLOUANI**

in recognition of his active participation in the conference with an Oral presentation  
entitled: " Modeling and control of a wind turbine using type-1 fuzzy logic "

Co-author: **OUSSAMA MOUSSA, AKKA ALİ, MAZOUZ Aboubaker Essadiq, BOUZİDİ ALİ,  
SAAD BELHAMDI**

