



Peopel's Democratic Republic of Algeria  
Ministry of Higher Education and Scientific Research  
University Mohamed Boudiaf M'sila



**City, Environment, Hydraulics  
and Sustainable Development Laboratory**

## Certificate of Participation



The Chairman of the Scientific Committee of the International seminar on Natural Risks,  
Urban Territory Management and Analysis Tools "The Advantages of Artificial Intelligence"  
held at Mohamed Boudiaf University, M'Sila, on December 16, 17 and 18, 2024,

testifies that **Mourad GUESRI**

participated in the activities of the seminar with a communication entitled:

**Assessing the Effectiveness of 1D Hydraulic Models in Flood Protection: A Case Study of Wadi K'sob**

**Co-author: Mahmoud HASBAIA, Dalila BEDDAL**

President of the seminar



مدير المخبر  
الأستاذ: رجم علي

Chairman of the Scientific Committee

موراد غسري