

People's Democratic Republic of Algeria  
Ministry of Higher Education and Scientific Research  
SETIF 1 University - Ferhat Abbas  
Institut of Architecture and Earth Sciences



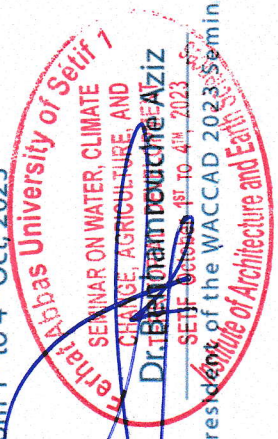
# CERTIFICATE OF ACHIEVEMENT

THIS CERTIFICATE  
IS PROUDLY PRESENTED TO

# HADJ HAFSI Lahcene



We have the honor to present this certificate to: HADJ HAFSI Lahcene for his participation in the international seminar:  
"Water, Climate Change, Agriculture and Territorial Development" by his oral presentation intitled: "l'impact du changement climatique sur la durabilité des capacités d'irrigation des barrages, "Le cas du barrage de k'sob a M'sila" from 1<sup>st</sup> to 4<sup>th</sup> Oct, 2023  
co-author: Benaissa Fateh Toufik



The Institut Dean