



CERTIFICATE OF PARTICIPATION

This is to certify that

Principal Author: *EL MANSOURI Oualida*

Co-Authors: *KEBAILI Farida, LABED Chaïma and LACHETAR Chahinez*

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

Proposed Simulation Models for Comparative Analysis of WDM-PON and CWDM-PON Systems

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