



ICMSE 2020

The 7th International Conference on
Mathematics, Science, and Education

CERTIFICATE

Number : 7056 /UN37.1.4/PP/2020

This is to certify that

N M D Putra, Sugianto, P Marwoto, R Murtafiatin, DP Permadis

has participated as

Presenter

entitled:

The SCAPS-1D Modeling of ZnO/CdS/CdTe Thin Film : Analysis of Thickness and Stoichiometric Fraction of Absorber Layer on Solar Cell Performance

in the 7th International Conference on Mathematics, Science, and Education (ICMSE) held
by Faculty of Mathematics and Natural Science, Universitas Negeri Semarang, Indonesia

Semarang, October 6, 2020



Dean

