



MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION  
DIPONEGORO UNIVERSITY  
SCHOOL OF POSTGRADUATE STUDIES



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## CERTIFICATE

Number : 1834/UN7.5.12/TU/2019

This is to certify that

**Dr. Shanty Oktavilla, S.E., M.Si.**

Has participated as

**Presenter**

“STRENGTHENING PLANNING & IMPLEMENTATION OF ENERGY, ENVIRONMENT, EPIDEMIOLOGY AND INFORMATION SYSTEM AS A RESPOND TO INDUSTRIAL REVOLUTION 4.0”

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