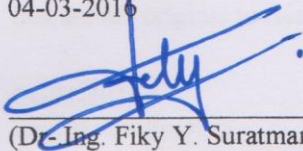


## APPROVAL PAGE

Approval of the Graduate Study Program of Electro-  
Telecommunication Engineering, Telkom University

I certify that this thesis satisfies all the requirements as a thesis  
for the degree of Master of Telecommunication Engineering.

04-03-2016

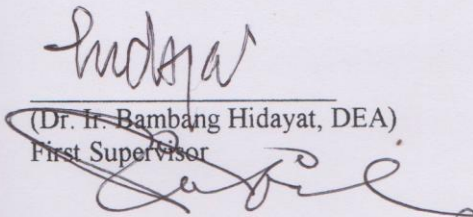


(Dr. Ing. Fiky Y. Suratman)

Head of The Graduate Study Program of Electro-  
Telecommunication Engineering

This is to certify that we have read this thesis and that in our  
opinion it is fully adequate in scope and quality as a thesis for  
the degree of Master of Telecommunication Engineering.

04-03-2016



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