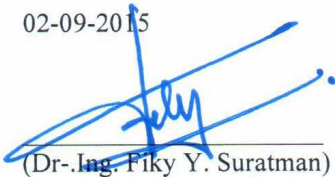


APPROVAL PAGE

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.

02-09-2015

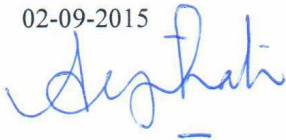


(Dr.-Ing. Fiky Y. Suratman)

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.

02-09-2015



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