

# AUTHENTICITY STATEMENT

ii

## AUTHENTICITY STATEMENT

For the sake of Allah SWT, I confess this work is on my own work except for the excerpts and the summaries that each of their sources has already been cited and mentioned. If in the future my confession is proved to be wrong and dishonest resulting the violence of the legal regulation of the papers and the intellectual property rights, then I would have the will to return my degree to be drawn back to Universitas Islam Indonesia.

Yogyakarta, August 2018

METERAI  
TEMPEL  
480C1AFF178050841

6000  
ENAM RIBU RUPIAH  
Purbo Nur Yudistiro

13522205

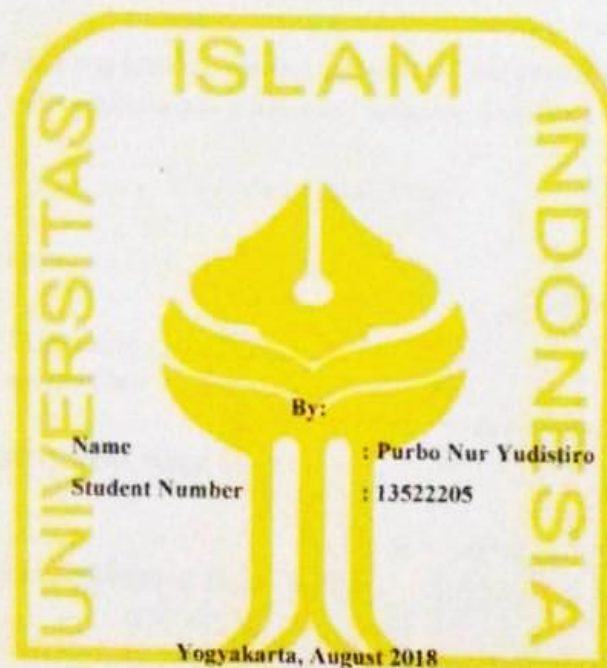
# THESIS APPROVAL OF SUPERVISOR

iii

## THESIS APPROVAL OF SUPERVISOR

### APPLICATION OF FMEA METHOD SUPPORTED BY TOPSIS IN MANAGING SMALL MEDIUM ENTERPRISE RISK

THESIS



By:

Name : Purbo Nur Yudistiro

Student Number : 13522205

Yogyakarta, August 2018

Supervisor

(Dr. Drs. Imam Djati Widodo, M.Eng. Sc)

# THESIS APPROVAL OF EXAMINATION COMMITTEE

## THESIS APPROVAL OF EXAMINATION COMMITTEE

### APPLICATION OF FMEA METHOD SUPPORTED BY TOPSIS IN MANAGING SMALL MEDIUM ENTERPRISE RISK

By:

Name : Purbo Nur Yudhisto  
Student Number : 13522205

Was defended before Examination Committee in Partial Fullfillness of the Requirements for  
the bachelor degree of Industrial Engineering Department

Yogyakarta, September 2018

Examination Committee

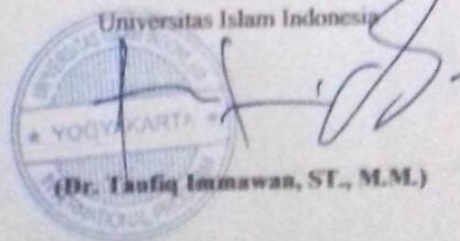
Agus Mansur, ST., M.Eng.Sc.  
Examination Committee Chair

Dr. Drs. Imam Djati Widodo, M.Eng. Sc.  
Member I

Muhammad Ridwan Andi Purnomo, ST., M.Sc., Ph.D  
Member II

Acknowledged by,  
Head of Department

International Program Industrial Engineering  
Universitas Islam Indonesia



## **DEDICATION PAGE**

*To my beloved parents, Father & Mother*

*My sisters*

*My thesis supervisor, Dr. Drs. Imam Djati Widodo, M.Eng. Sc*

*And All of my friends, IP TI UII batch 2013*

*And International Program Industrial Engineering Univeristas Islam Indonesia*

*Thank you for everithing*

## **MOTIVATION PAGE**

And look for what has been given to you (happiness) the land of the hereafter, and do not forget your part of worldly pleasures.

(Q.S Al-Qashas: 77)

Goodness is not the same as evil. Repel the evil in a better way, so that those who are hostile to you will be like loyal friends.

(Q.S Fusshilat: 34)

A new idea must not be judged by its immediate results.

(Nikola Tesla)

Life is not a game of luck. If you want to win, you have to work hard.

(Sora – No Game No Life)

## PREFACE

*Assalamualaikum Wr. Wb.*

*Alhamdulillah Rabbil'alamin*, gratitude and praise to Allah SWT for the strength, grace, and guidance, to help the Author in completing this thesis. During arranging this thesis, Author had faced so many challenges and problems. However, Author had obtained so many helps and supports, either directly or indirectly, from some parties involved. On this occasion, Author would like to appreciate and thank to all the parties below:

1. Dr. Drs. Imam Djati Widodo, M.Eng. Sc as the supervisor who always guidance and provide knowledge to assist Author in completing this Thesis
2. My beloved father, mother, sisters, and other family members who always give prayers, supports, and encourage Author during conduct and completing this Thesis
3. Mr. Budi Santoso and all employees of Sogan Batik for allowed Author to collecting the required data
4. My friends of International Program Industrial Engineering batch 2013 for the support and prayer for Author
5. All parties that cannot be mentioned one by one by Author for the assistance in completing this Thesis

Author realize that this thesis is still have some weaknesses so that Author really expect any suggestions from readers for the perfection of this report. Hopefully this report and information included will be useful for Author and give benefit to other parties who read this.

*Wassalamualaikum Wr. Wb.*

Yogyakarta, August 16

Purbo Nur Yudistiro