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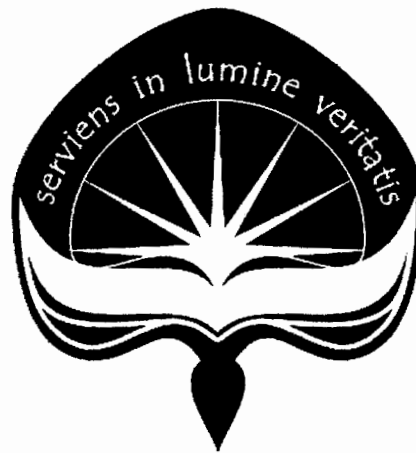
 UNIVERSITAS PRIMA JAWA YOGYAKARTA PERPUSTAKAAN	UNIVERSITAS PRIMA JAWA YOGYAKARTA PROGRAM STUDI TEKNIK INFORMATIKA Jurusan Teknik Informatika

**REDESIGN OF TRADITIONAL SICKLE HANDLE
USING VALUE ENGINEERING TECHNIQUE**

(Case Study of Sickle Type in Yogyakarta)

THESIS

**This is Submitted to Fulfill Prerequisite of
Industrial Engineer of International S-1 Program**



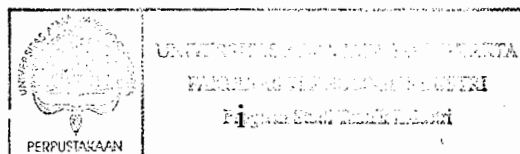
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**INTERNATIONAL CLASS PROGRAM
INDUSTRIAL ENGINEERING DEPARTMENT
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ATMA JAYA YOGYAKARTA UNIVERSITY
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APPROVAL

Thesis of
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Title:

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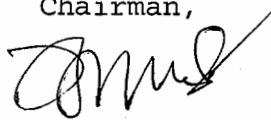
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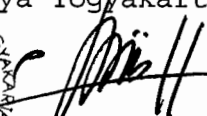
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FAKULTAS
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DEDICATION

**"IT'S BETTER TO BE THE LEADER OF ANT
THAN SOLDIER OF ELEPHANT."**

(Anonymous)

This Thesis is Presented Special for My Mother Birthday's
August 7, 2006

THIS THESIS IS DEDICATED TO:

- ♥ MY LOVELY PARENTS, PAPA AND MAMA
- ♥ MY SISTER, WIDYA AND ATIKA
- ♥ MY BEAUTY GIRL, DIAN
- ♥ ALL OF MY BEST FRIEND

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I realize that this thesis still has a lot of imperfections, so any criticize and inputs are really expected. Eventually, I hope this thesis can be useful and can be developed in a further research. And this little research can contribute to the science and technology development.

Yogyakarta

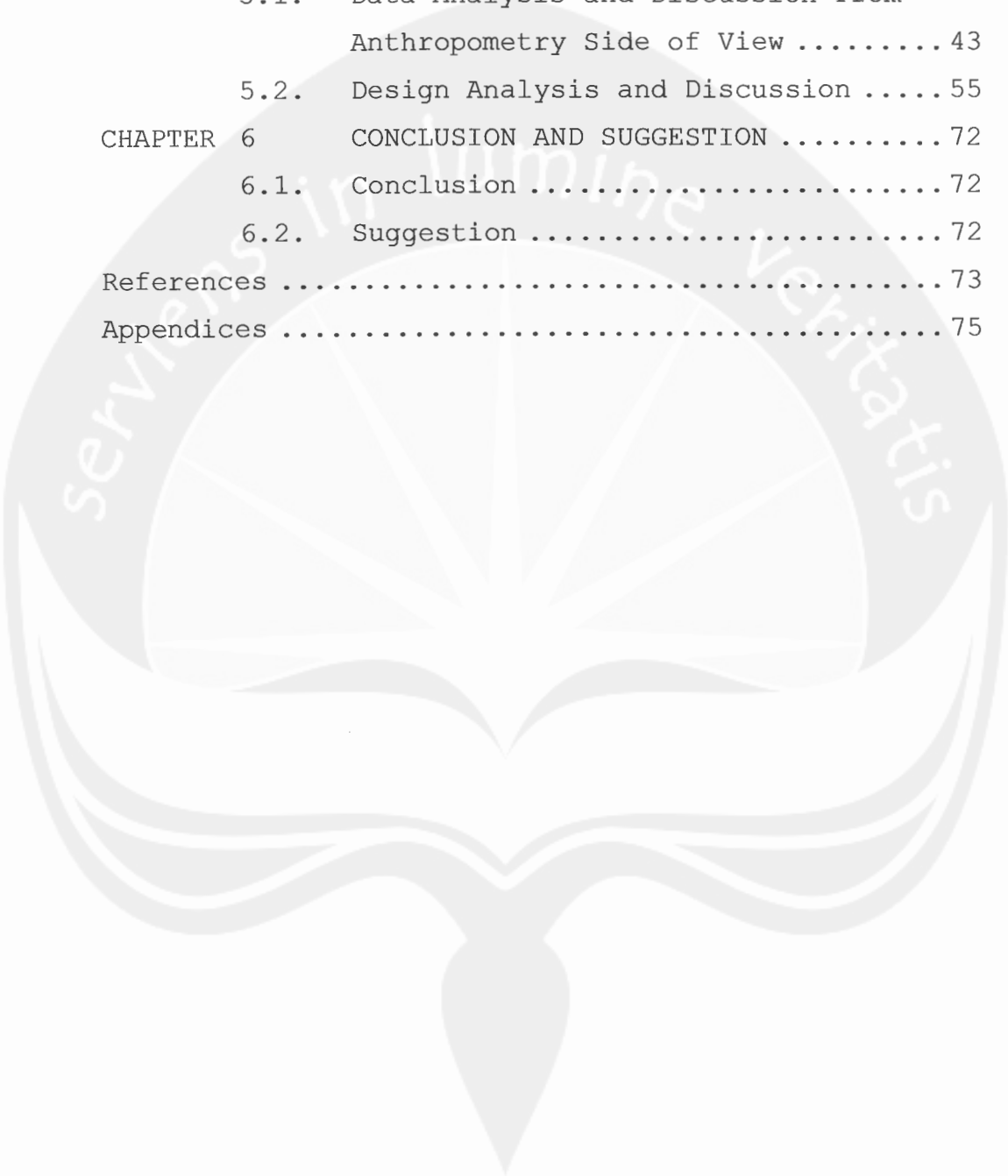
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ABSTRACT

Sickle is the agriculture traditional tools which made from hardness steel that usually used to cut grass, twig, clump, etc. In Yogyakarta many farmers still use sickle to cut the grass manually. This conventional sickle is made by small industry. The weakness of the conventional sickle is on the form and the size of handle. The form and the size of handle is different each other, because the form and the size of handle is measured based on hand of blacksmith.

During the survey was found the problem on the existing design of sickle handle. The conventional sickle handle tends to make deflection on the user hand. After do some analyses is need to be developed the new design of sickle handle.

The result of this research is a new design of sickle handle which can reduce or eliminate the deflection on hand. The dimension of sickle handle is adjusted based on the anthropometry data which are measured from the farmer. So the new design of sickle handle can make the farmer work more comfortable.