

## **Faculty of Industrial Technology**

## **Department of Textile Technology**

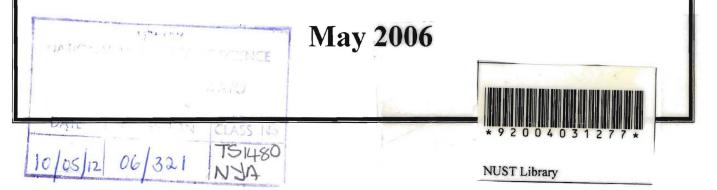
Name : Pardon T Nyakwende

Student ID No. : N002 1077F

**Degree Course : BEng in Textile Technology** 

Project Title : A study of winding package defects in Open-end Spinning

A dissertation submitted in partial fulfilment of the requirements for the Bachelor of Textile Technology (Honours) Degree.



## <u>Abstract</u>

This study focuses on the yarn package defects that occur in Open-end rotor spinning. Causes of yarn package deformations were given attention to in this study. A production study type of research was carried out at Afroran Spinners Pvt on the Rieter R20 and RU14 machines using 100% carded cotton yarn. Experimental work which included an analysis of the winding process on the rotor spinning machines, the study of the anti-patterning motion, the travelling unit's actions on the yarn packages, the effect of the psychometric conditions on the yarn package building and the influence of the operating personnel in the overall yarn package building was carried out. The results obtained were used to come up with ways of minimising yarn package defects in open-end rotor spinning.