

# CONTENTS

	Page
CONTENTS	i
GENERAL INTRODUCTION	1
THE OBJECTIVES OF THE STUDY	12
CHAPTER I      Estimation of nitrogen maintenance requirement and potential for nitrogen deposition in fast growing chicken depending on age and sex <i>Poultry Science, 2006. In press.</i>	15
CHAPTER II     Modelling of threonine requirement of fast growing chickens depending on age, sex, protein deposition and dietary threonine efficiency <i>Poultry Science, 2006. Submitted.</i>	41
CHAPTER III    Lysine requirement of fast growing chickens – Effects of age, sex, level of protein deposition and dietary lysine efficiency <i>The Journal of Poultry Science, 2006. Submitted.</i>	63
CHAPTER IV    Assessing the lysine to threonine requirement ratio for fast growing male chickens depending on age and dietary amino acid efficiency	91
CHAPTER V     Threonine requirement of slow growing male chicken genotypes depending on age and dietary threonine efficiency	123
GENERAL DISCUSSION	152
CONCLUSIONS	163
RECOMMENDATIONS FOR FURTHER RESEARCH WORK	166
SUMMARY	167
REFERENCES	172
APPENDICES	183
ACKNOWLEDGEMENT	213
CURRICULUM VITAE	215