

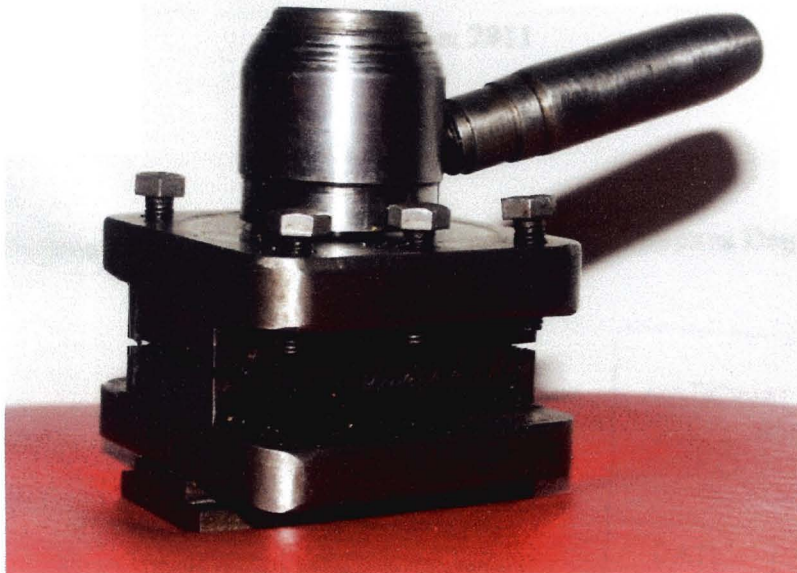
# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY



FACULTY OF INDUSTRIAL TECHNOLOGY

DEPARTMENT OF TECHNICAL TEACHER EDUCATION

FINAL YEAR PROJECT 2014



**PROJECT TITLE: DESIGNING AND MANUFACTURING A TWO WAY TOOL POST WITH REFERENCE TO LUEVEVE HIGH SCHOOL.**

**KEITH NGWENYA NO113554X**

**A RESEARCH PROJECT SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR A BACHELOR OF TECHNICAL EDUCATION (HONOURS DEGREE) IN MECHANICAL ENGINEERING**

**SUPERVISOR: DR G SHAVA**

## **ABSTRACT**

**This study sought to investigate, design and manufacture a low-cost two-way tool post. In this study eight secondary schools were used as the research subjects. Observation and interviews were used as research instruments. The study revealed that most Reigate District secondary schools lathe machines in their metalwork shops lacked a two-way tool post. It also showed that the lack of this tool negatively affected the 'O' Metalwork Results and there is limited usage of lathe machines which negatively controlled pupils attaining or acquiring certain practical skills.**