

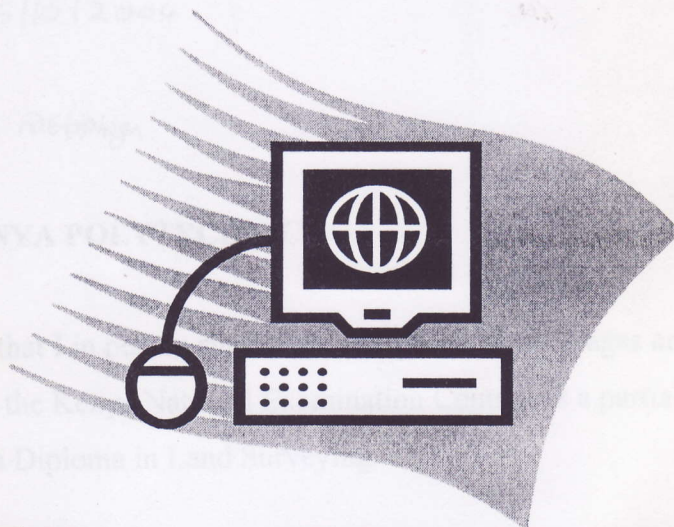
26/04 26/04  
**THE KENYA POLYTECHNIC**

**DEPARTMENT OF SURVEY AND MAPPING**

**TRADE PROJECT**

**TITLE:**

**THE USE OF GIS IN WATER  
SUPPLY OPERATION AND  
MAINTAINANCE.**



**PRESENTER:** KEPHA MOTANYA MIRERI

**INDEX No.** 401002/297

**COURSE CODE:** Ss 303/102

**PRESENTED TO:**

THE KENYA NATIONAL EXAMINATION COUNCIL IN PARTIAL  
FULFILMENT FOR THE AWARD OF A DIPLOMA IN LAND SUR VEY

**EXAMINATION SERIES:** NOVEMBER/DECEMBER 2004

# ABSTRACT

The objective of the project was to use GIS Technology, methods, issues and tools that are established and can be used by water resource managers to quick practical and efficient use in the area of water supply.

Site data was got from the existing.

The project highlighted practical aspects applied especially in the GIS technology computer lab and the photogrammetric lab. Also bears intense theoretical explanations that have been undertaken in both labs.

The project is aimed at partial fulfillment of the course of Diploma in Land Surveying.

The task of this project involved documenting about GIS selecting a site and mapping it with GIS, analyzing tools and demonstrating operation and maintenance of water supply system.

The mapping of the area commenced on 10<sup>th</sup> April 2004 for in the GIS computer lab. Computer was the major machine that was put into use and mirror stereoscopy. Survey did plan was the source material and thus the base of the project.

The map was edited to come up with site overlay where the pipes and other water elements were incorporated. The outcome was a water distribution system to 1280 people approximated. After analysing the system, the map was then printed at a scale of 1:1500. Thus the project is a reliable data, source of reference for future planning.

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