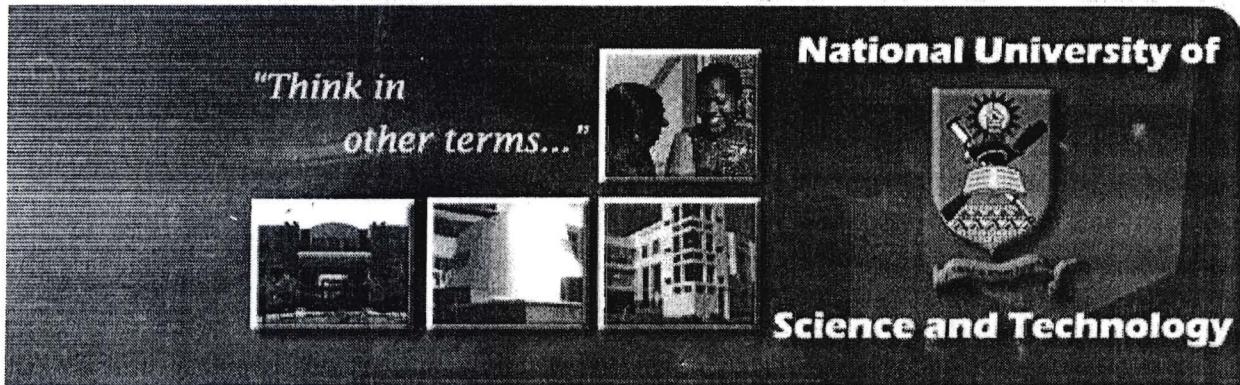


NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY



TECHNICAL TEACHER EDUCATION

NAME: KURAUWONE MAPONGA

STUDENT No: N0051385X

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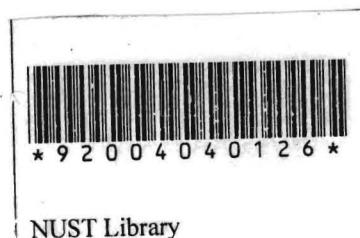
COURSE: PROJECT

PROJECT:

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DATE	ACCESSION	CLASS N
19/12/14	14/649	

DESIGNING A LOW COST HOUSE USING NATURAL HEAT FROM THE SUN FOR HEATING IN WINTER AND THE NATURAL COOLNESS FROM THE ATMOSPHERE FOR COOLING DURING SUMMER.

SUPERVISOR: MR S. MATOPE



ABSTRACT

The aim of the project was to design and make a simple, user friendly and affordable house that could use natural heat from the sun for heating in winter, without the use of artificial and costly heating mechanisms. The house was also supposed to use the coolness from the atmosphere for cooling in summer.

The design was done from first principles and the design process covered the background of the problem. Information found from the research and information found from the literature review was blended to come up with some design specifications. These specifications were then converted into a series of alternative solutions and out of these alternative solutions, the most viable was chosen and developed. The chosen solution was further refined through design calculations and some tests and experiments to come up with a fully functional house.