

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF INDUSTRIAL TECHNOLOGY**

**BED APPLIED BIOLOGY**

**TECHNICAL TEACHER EDUCATION**

**AN INVESTIGATION INTO THE EFFECT OF CHICKEN FEED FORTIFIED WITH  
INSECT SUPPLEMENTS.**



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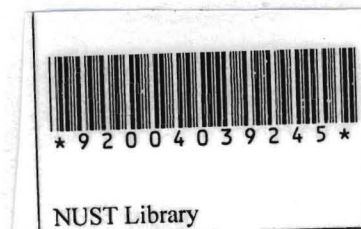
**BY**

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## **Abstract**

Due to their high nutritional value insects are a potential sustainable food resource in poultry nutrition. The objective of this study was to investigate the effect of chicken feed fortified with insect supplements. *Encostenum delegorguei* and *Macrotermes falciger* were the types of insects used for this study. Thirty day old chicks were reared and used for this purpose. The chicks were divided into three major groups. The first group was fed with chicken feed supplemented with *M. falciger* and the second group was fed with chicken feed supplemented with *E. delegorguei*. The third group was the control and so was given chicken feed only. The experimental treatment began in the second week. The chicks were weighed every day at 5.00 pm and the average mass per group was recorded. A line graph was plotted to compare the average mass of each group of chickens per day for 42 days. The data was subjected to one way ANOVA and it was shown that there was no significant difference ( $p < 0.05$ ) in the mass of chickens fed with chicken feed fortified with insects compared to chickens fed without insect supplements. The same was done for the data of the hens and the data of the cocks and statistical significance was also declared at a probability of  $p < 0.05$ . These results show that supplementing chicken feed with *E. delegorguei* and *M. falciger* can promote growth and performance of broiler chickens as well as reducing the cost of production.