

HARMONIZING STATISTICAL DESIGN CONCEPTS IN DIVERSE AREAS OF EXPERIMENTATION

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This paper focuses on the diverse concept involved in experiments that are usually of interest in the areas of bioscience, agriculture and medical sciences. Meanwhile, in design experiments, it is of paramount importance to among other things; define without any ambiguity, what constitutes an experimental subject, measurements to be taken, experimental conditions, identifiable extraneous factors, as well rules to be adhered to strictly during the course of the experiment.

In particular sampled experiments that were carried out between 1990 and 2005 in the departments of biochemistry, microbiology, plant biology zoology animal production plant protection, anatomy and physiology, University of Ilorin, Nigeria formed the bulk of the experiments that we considered in this paper, for the purpose of harmonizing the inherent experimental terminologies that may appear ordinarily to be diverse.

Keywords: Designed experiment; Experimental condition; Experimental subject; Extraneous factor.