**PSY 1102 Experimental Design**

**Course aim:** The course introduces student to the scientific/experimental method of doing research. It helps the student appreciate the scientific/experimental method of doing research and appreciate how psychological and other scientific knowledge is generated and to enable the student to be able to attempt to establish cause and effect relationships through simple scientific/experimental research.

**Course Content:** Topics to be covered include The need for the scientific method, the methods of acquiring knowledge; the Scientific Method; the Experimental Method and the Basics of Experimentation including, the purpose of experimentation, Variables Definition of an experiment, Independent variable, Manipulation, Dependent variable, Extraneous variables and confounding factors, Experimental group, the control group, Subject and environmental variables, Control of extraneous variables, The purpose of control and Techniques of controlling extraneous variables; Evaluating the Experiment; Measurement in Psychological Research and the Classification (Nomenclature) of Experimental Designs

**Reading List**

 Doing Psychology Experiments - David Martin.

 Experimental Psychology - Myers & Hansen.

 Experimental Methodology – Larry B. Christensen

 Experimental Psychology: Methods of Research – McGuigan F.J.