

UNIVERSITY OF KHEMIS MILIANA

Level : 3rd Year Counseling & Guidance

2nd Semester 2023

SUBJECT :ENGLISH

Prof :D.MEZAINI

Revision Summaries

| Experimental design | Types of experiment | Sampling |
|---|--|--|
| <p>Types of design</p> <p>Independent groups Participants in each condition of an experiment are different.</p> <p>Repeated measures All participants take part in all conditions.</p> <p>Matched pairs Similar participants put in pairs and allocated to different experimental conditions.</p> <p>Evaluation</p> <p>Independent groups Less economical. No order effects. Participant variables not controlled.</p> <p>Repeated measures Order effects. Demand characteristics. No participant variable problems. More economical.</p> <p>Matched pairs No order effects. Cannot match participants exactly. Time-consuming.</p> | <p>Lab experiments IV is manipulated in a controlled setting.</p> <p>Field experiments IV is manipulated in a natural setting.</p> <p>Natural experiments IV has been manipulated naturally, effect on DV is recorded.</p> <p>Quasi-experiments IV based on an existing difference between people, effect on DV is recorded.</p> <p>Evaluation</p> <p>Lab experiments High internal validity (control). Low external validity (low realism). Cause and effect. Replication. Demand characteristics.</p> <p>Field experiments Lower internal validity. Higher external validity (realism). Ethical issues.</p> <p>Natural experiments Low internal validity (no random allocation). High external validity. Unique research. Opportunities may be rare.</p> <p>Quasi-experiments Low internal validity (no random allocation). High external validity.</p> | <p>Populations and samples</p> <p>Random sampling All members of the population have an equal chance of selection.</p> <p>Systematic sampling Selecting every nth person from a list.</p> <p>Stratified sampling Sample reflects the proportion of people within different population strata.</p> <p>Opportunity sampling Choosing whoever is available.</p> <p>Volunteer sampling Participants 'self-select'.</p> <p>Snowball sample people difficult to access</p> <p>Evaluation</p> <p>Random sampling No researcher bias. Time-consuming. May end up with biased sample.</p> <p>Systematic sampling No researcher bias. Usually fairly representative. May end up with biased sample.</p> <p>Stratified sampling No researcher bias. Representative. Cannot account for all sub-groups.</p> <p>Opportunity sampling Convenient. Researcher bias. Unrepresentative.</p> <p>Volunteer sampling Less time-consuming. Attracts a certain profile of person.</p> <p>Snowball sample unlikely to be a good cross-section from the population</p> |
| Variables | Control of variables | Experimental method |

| | | |
|---|--|---|
| <p>Vs and DVs IV is manipulated, DV is measured.</p> <p>Levels of the IV Experimental and control conditions.</p> <p>Operationalisation 'De-fuzzifying' variables.</p> | <p>Extraneous variables Nuisance variables but randomly distributed.</p> <p>Confounding variables Vary systematically with the IV.</p> <p>Demand characteristics Participants second guess the aims and alter their behaviour.</p> <p>Investigator effects The unconscious influence of the researcher on the research situation.</p> <p>Randomisation The use of chance to reduce the researcher's influence.</p> <p>Standardisation Ensuring all participants are subject to the same experience</p> | <p><i>Aims, hypotheses and variables</i></p> <p>Aims The purpose of the investigation.</p> <p>Hypotheses The formulation of a testable statement.</p> <p>Directional or non-directional Identifying a difference/correlation or not.</p> <p>One-tailed and two-tailed predictions.</p> |
|---|--|---|