

Bill Komanecki, Librarian Saint Francis College of Nursing

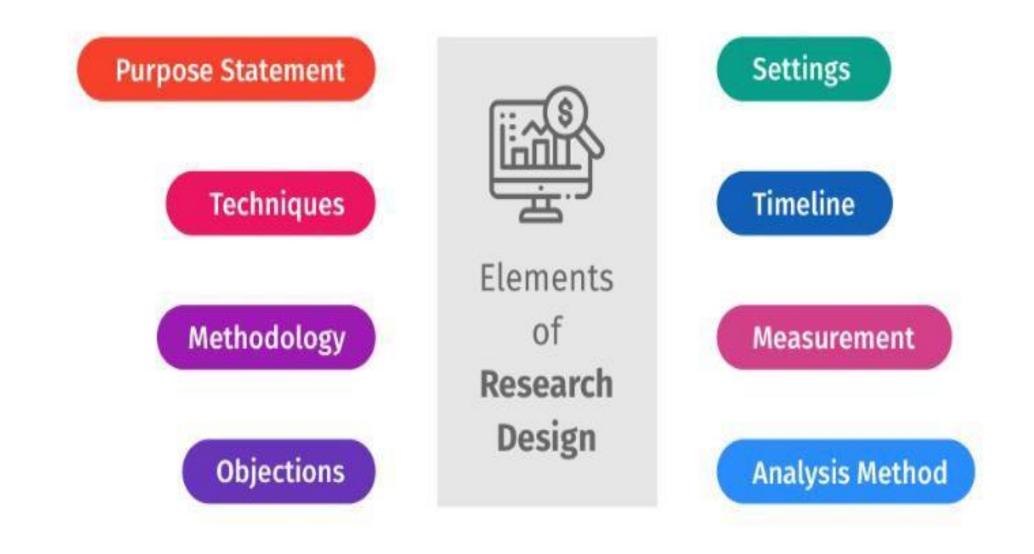
# Research Design Defined

- Plan for collecting research
- Arrangement of conditions for collection and analysis of data that combines research purpose and procedure
- Overall approach to conducting research projects through data collection, interpretation, analysis, and discussion

Source: Pritha Bhandari, Scribbr.com https://tinyurl.com/2t8j6s2v



Source: Leverage Edu.com, https://tinyurl.com/bdz9pwjz



Source: Delbert Miller and Neil Salkind, Handbook of Research Design, Indiana University, 2002

### Research Design Categories

- Descriptive identifies the characteristics, frequencies, trends, and categories, useful when not much is known yet about the topic or problem
- Experimental establishes a relationship between the cause and effect of a particular happening
- Correlational establishes a relationship between two closely-related topics or variables
- Diagnostic examines the underlying cause of a situation or phenomenon
- Explanatory expands or explores a researcher's ideas and theories

## Research Design Types

- Exploratory Research process of investigating a problem that has not been studied or thoroughly investigated before
- Constructive Research research based upon theories, hypotheses and case studies, used to test theories
- Empirical Research uses both direct and indirect forms of observation and analysis

## Research Design Types

- Cohort study longitudinal research that takes a cross-section of a cohort (a group of a people who have a common trait) at predetermined time intervals
- Cross-sectional study examines data from a population or a representative sample of the population at a specific point in time
- Longitudinal study type of study in which the same variables are observed repeatedly over a short or long period of time
- Cross-sequential study combines longitudinal and cross-sectional research methods to compensate for flaws inherent in each one

Source: Conference Paper: Life-Based Design as an Inclusive Tool for Managing Micro-innovations, 2021

## Research Design Questions

- Which design will provide needed information?
- How feasible is each option?
- How valid and reliable do the findings need to be?
- Are there any ethical concerns about a specific design?

Source: Shona McCombes, Scribbr.com, https://tinyurl.com/4szbez42