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  - a. Experimental and non-experimental; Descriptive and observational
  - b. Qualitative, Quantitative and mixed method
4. Sampling techniques and sample size calculation
  - a. Probability sampling method
  - b. Non-Probability sampling methods
5. Tools of data collection- Interview schedule, questionnaire and FGD
  - Designing/ Construction
  - Preparation of tools for ethical review
  - Pilot testing/ validity and reliability of the tool\
6. Data collection and analysis process: conducting interviews, administering questionnaire
7. Coding and tabulation of data for analysis
8. Citation formats and Plagiarism
9. Reviewing a research paper from a specific area of specialization in Home Science

**Essential Readings:**

- Kerlinger F. N. and Lee, H.B. (2017). *Foundations of Behavioral Research* 4<sup>th</sup> Ed. Harcourt College Publishers.
- Kothari, C. R. (2019). *Research Methodology: Methods and Techniques*. New Age International Pvt Ltd, New Delhi.
- Kothari, C. R. (2022). *Shodh Padhati* 1<sup>st</sup> Ed. New Age International Pvt Ltd, New Delhi.
- Kumar, R. (2019) *Research Methodology: A Step-by-Step Guide for Beginners*. 5<sup>th</sup> Ed. Sage Publications, New Delhi.

**Suggested Readings:**

- Bernard, H. R. (2000). *Social research methods: Qualitative and quantitative approaches*. Thousand Oaks, CA.: Sage.
- Creswell, J. W. (2009). *Research design: Qualitative, quantitative, and mixed methods approaches*. Thousand Oaks, CA: Sage Publications.
- Davis, A. M., Treadwell, D. (2019). *Introducing Communication Research: Paths of Inquiry*. United Kingdom: SAGE Publications.
- Flynn, J.Z., Foster, I.M. (2009). *Research Methods for the Fashion industry*. Fairchild books, Bloomsbury publishing.
- Indian National Science Academy (INSA) (2019). *Ethics in Science Education, Research and Governance*. ISBN:978-81-939482-1-7. <http://www.insaindia.res.in/pdf/EthicsBook.pdf>
- Jacobsen, K. H. (2020). *Introduction to health research methods: A practical guide*. Jones & Bartlett Publishers.
- UGC (2021) *Academic Integrity and Research Quality*. New Delhi: UGC, Retrieved from [https://www.ugc.ac.in/e-book/Academic%20and%20Research%20Book\\_WEB.pdf](https://www.ugc.ac.in/e-book/Academic%20and%20Research%20Book_WEB.pdf)