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| **Chapter # & Topic(s)** | **Suggested Readings** |
| 1. Introduction* Definition of Quantitative Research
 | * Chapter 4 of Neuman (2014)
* Chapter 1 of Bryman (2012)
 |
| * Positivist Social Research and its major assumptions
 |
| * Empiricism
 |
| 2. Planning and Designing Quantitative Research * Quantitative Research Design: Definition, Characteristics, and Components
 | * Chapter 6 of Neuman (2014)
* Chapter 6 of Bryman (2012)
 |
| * The Main Assumptions, Orientations, and Issues in Quantitative Research Design
 | * Chapter 6 of Neuman (2014)
* Chapter 6 of Bryman (2012)
 |
| * Causal Theory and Hypothesis
* Types of Hypotheses
* Fallacy, Reductionism, Spuriousness
 | * Chapter 6 of Neuman (2014)
 |
| 3. Quantitative Measurements and Scaling* Meanings of Measurement
* Levels of Measurement
* Conceptualization and Operationalization
* Reliability and Validity
* Purpose of Scaling
* Types of Scaling
* Rating Scaling
* Use of Multi-dimensional Scaling
 | * Chapter 7 of Neuman (2014)
* Chapter 3 of Sarantakos (1993)
 |
| 4. Sampling * Probability and Non-Probability Sampling
* Types and Techniques of Sampling
* Sampling Frame
* Sampling Size
* Error and Control
 | * Chapter 8 of Neuman (2013)
 |
| 5. Data Collection in Quantitative Research* 1. Survey Research
* Definition of Survey
* Steps in Conducting a Survey
* Constructing the Questionnaire
* Open and Closed Ended Questions
* Types of Survey: Advantages and Disadvantages
* Interviewing
	1. Experimental Research
* Definition and Meanings of Experimental Research
* Components and Practice of Experimental Research
 | * Chapters 9-10 of Neuman (2013)
 |
|  6. Ethics in Quantitative Research | * Chapter 5 of Bryman (2012)
* Chapter 5 of Neuman (2013)
 |
|  7. Data Analysis and Interpretation Techniques * Basic Considerations
* Managing Data
* Inferential Statistics
* Results with One, Two, and More than Two Variables
* Introduction to Single and Bi-Variates
* Introduction to Multivariate Analysis
* Fundamentals of Factor Analysis
* Computer Use for Data Analysis: Software for Analysing Quantitative Data
 | * Chapter 12 of Neuman (2013)
* Chapter 14 & 15 of Bryman (2012)
 |

**Key Suggested Readings**

1. Bryman, A. (Ed.) (2012). *Social Research Methods* (4th ed.). Oxford: Oxford University Press.
2. Neuman, W. L. (2013). *Social Research Methods: Qualitative and Quantitative Approaches* (7th ed.). Pearson Education Limited: Essex.
3. Sarantakos, S. (1993). *Social Research*. Canberra: Macmillan Education Australia Pty Ltd.