

Learning objectives:

Through completion of this course the student should be able to:

1. understand the underlying theory and reasoning in quantitative research methods;
2. understand the research process in quantitative research;
3. understand the data collection techniques in quantitative research methods;
4. evaluate critically other empirical research that adopt quantitative methods; and
5. develop an understanding for report writing.

Course Outline:

1. Introduction

- 1.1. Scientific Method and Social Research
- 1.2. Theory and Research
- 1.3. Research Orientation: Basic, Applied and Evaluative
- 1.4. Purpose of Research: Exploration, Description & Explanation
- 1.5. The Time Dimension: Comparison of Cross-sectional and Longitudinal Studies.

2. Formulation of Research Problem & The Research Process

- 2.1 Choosing the Problem and its Significance
- 2.2 Review of Relevant Literature
- 2.3 The Research Process in Quantitative Research
- 2.4 Ethics in Research

3. Quantitative Measurement and Sampling

- 3.1 Variables: Types, Conceptualization, Operationalization, Validity and Reliability
- 3.2 Level of measurements of variables: Scales and Indexes
- 3.3 Hypothesis: Types and Causal Explanation
- 3.4 Unit of Analysis: Individuals, Groups, Organizations,
- 3.5 Population and Sample: Probability & Non-Probability Sampling Techniques

4. Quantitative Research Methods

- 4.1 Survey Research: Logic, Types, Construction of Questionnaire, Open-ended vs. Close-ended Questions
- 4.2 Non-reactive Research and Secondary Analysis: Content Analysis, Existing Statistics Secondary Analysis of Survey Data
- 4.3 Experimental Research

5. Report Writing

Teaching-Learning Strategies:

Teaching will be a combination of class lectures, class discussions, and group work.

Assignments:

The sessional work will be a combination of written assignments, class quizzes, presentations, and class participation/attendance.

Assessments and Examination:

Sr. No.	Elements	Weightage	Details
2.	Midterm Assessment	35%	It is a written examination that takes place at the mid-point of the semester.
3.	Formative Assessment	25%	It is a continuous assessment. It includes variety of activities mentioned above.
4.	Final Assessment	40%	It is a written examination that takes place at the end of the semester.

Suggested Readings

1. Roni, S. M., Merga, M. K., & Morris, J. E. (2020). *Conducting quantitative research in education*. Springer.
2. McBeath, A. (2020). Doing Quantitative Research with a Survey. In *Enjoying Research in Counselling and Psychotherapy* (pp. 175-193). Palgrave Macmillan, Cham.
3. Alwin, Duene F. 2007. *Margins of Error; A Study of Reliability in Survey Measurements*. U.S.A: John Wiley & Sons, Inc.
4. Bridge Semekh & Culhy. 2005. *Research Methods in the Social Science*. New Delhi: Vistaar Publisher.
5. Babbie, Earl. 2004. *The Practice of Social Research*. 10th Edition. Belmont: CA Words Worth Publishing.
6. Christopher Winship, 2003, *Sociological Methods and Research*. London: Sage Publications.
7. Norman Blaikie, 2003, *Analyzing Quantitative Data*, Sage Publication London.
8. Neuman William Lawrence. (2000) *Social Research Methods* 4th ed. Allyn and Eacon., Boston.
9. Nachimas, Chava Frankfort and David Nachmias (1997) *Research Methods in the Social Sciences* (5th Edition) New York: St. Martin's Press Inc.
10. Rea, Louis and Richard A. Parker (1997) *Designing and conducting Survey Research: A comprehensive guide*. San Francisco: Jossey – Bass Publishers.
11. Sadman, Symour, Norman M. Bradburn (1991) *Asking Questions*. San Francisco: Jossey – Bass Publishers.