

Department of Applied Psychology
Bahauddin Zakariya University Multan

SCHEME OF STUDIES
PhD in PSYCHOLOGY

W.E.F. SESSION: 2023 & ONWARD

Year-I (Course Work)

Semester-I

PSYD-101	Core Areas of Psychology	3
PSYD-103	Seminars on Research Methods	3
PSYD-105	Applied Statistics	3

Semester-II

PSYD-102	Research Instrument Development	3
PSYD-104	Academic Report Writing	3
PSYD-106	Contemporary Data Analysis Tools	3

Year 2 & Onward

Comprehensive Examination		Non-credit
PSYD-201	Dissertation	18

Total Credits: 36

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Chairperson
Department of Applied Psychology
BZU Multan

Department of Applied Psychology
Bahauddin Zakariya University Multan
PhD Courses

Course Code: PSYD-101

Course: Core Areas of Psychology

Credit Hours: 3

Course Description: The course is aimed to instill knowledge of the basic assumptions, concepts and current research in major theories of Psychology. This course is lecture based and course instructor will deliver the lectures in detail about the core areas and school of thoughts of psychology. The learning and critical evaluation skills will be developed through discussions and presentations.

Course Objectives: By studying this course, students will be in a position to understand and then apply theories of psychology in any of the social setup and to design theory based research plan.

Course Outline:

1. What is theory? , Theory construction in psychology, Characteristics of good theory, Role of theory in research, How to prepare a theory based research Proposal?
2. Introduction of significant theories in psychology: Psychoanalytic, behavioral, humanistic, cognitive
3. Approaches
4. Social Cognitive theory of Bandura , Impression Management Theory , Personal Construct Theory, Cognitive load theory, Moral Development Theory, Multiple Intelligence Theory
5. Choice Theory, Cognitive Development Theory of Vygotsky, Path Goal Theory, Cognitive Dissonance Theory , Need Theory of Murrey, Social Exchange Theory, Persona Environment Theory, Protection Motivation Theory, Attachment Theory , Health Belief Model, Self-determination theory , Dual aspect theory, Rollo may theory of existentialism, Terror management theory, Schema mode model based on schema theory.

Reading Material:

1. Esquirol, G. B., Lopez, E. C., & Nahari, S. G. (2007). Multicultural handbook of school psychology: an interdisciplinary perspective. New Jersey: Lawrence Erlbaum Associates, Inc.
2. Merrell, K. W., Ervin, R. A., & Gimpel, G. A. (2006). School Psychology for 21st century. New York: Guilford Press.
3. Peacock, G. G., Ervin, R. A., & Daly, E. J. (2009). Practical Handbook of School Psychology: Effective Practices for the 21st Century. New York: Guilford Press Inc.
4. Buyer, L.S. (2004). Study Guide for Reed's Cognition: Theory and Application, (6th ed.). Belmont, CA: Wadsworth/Thomson Learning.

5. Goldstein, E.B. (2005). Cognitive Psychology: Connecting Mind, Research and Everyday Experience, Belmont. CA: Thomson Wadsworth.
6. McGraw, K.M. (2000), Contributions, of the Cognitive Approach to Political Psychology. Ohio: International Society of Political Psychology.
7. Reed, S.K. (2004). Cognitive Theory and Application, (6th ed.).. Pacific Groove, C.A: Brooks/Cole Publishing Company.

Course Code: PSYD: 102

Course: Seminars on Research Methods

1. **Course Description:** The course provide on in-depth theoretical and practical understanding of psychological research techniques and methodology. All the topics covered during the course will address the methodological issues in deciding how to study various psychological phenomena in indigenous context. Course instructor will arrange seminars on new trends in the research of psychology. Students will prepare the presentations and seminars. In addition to lectures and presentations, the students will also prepare a research proposal in the style mostly used by research psychologists.

Course Outline

- Orientation to the Basic Concepts in Psychology Research
2. Types of Research: Scientific and Non-scientific Research.
3. Sampling and Data Collection. Probability and Non-probability samples.
4. Research Designs: Qualitative and Quantitative. Data collection Techniques. Recent Trends in Psychology Research in all over the world and in Pakistan
5. Qualitative Research Design: (1) History and Archival Research (2) Interview based research, (3) Narratives and Diary Based Research (4) Biographical Research (5) Focus Group Discussion based research (6) Grounded Theory based research (7) Discourse Analysis based research (8) Ethnographic Research (9) Phenomenological Research (10) Participant Observation based research (11) Case studies based research (12) Qualitative Evaluation Research.
6. Qualitative Research Design: (1) History and Archival Research (2) Interview based research, (3) Narratives and Diary Based Research (4) Biographical Research (5) Focus Group Discussion
7. based research (6) Grounded Theory based research (7) Discourse Analysis based research (8) Ethnographic Research (9) Phenomenological Research (10) Participant Observation based research (11) Case studies based research (12) Qualitative Evaluation Research.
8. Ethical Issues in research with humans: Ethical standards in conducting and reporting research.
9. Presentations of research proposals.

Reading Material

1. Goodwin, J. C. (2005). Research Methods in Psychology (3rd ed.): John Willy & Sons
2. Punch, K. F. (2006). Developing Effective Research Proposal (2nd ed.), London, Thousand Oaks. New Delhi: Sage Publications

3. Shaughnessy, J. J., & Zachmeister, B. E., & Zachmeister, S. J. (2006). *Research Methods in Psychology*, (7th ed.). McGraw Hill Companies
4. Bloor, M., Frankland, J., Thomas, M., & Robson, K. (2002). *Focus groups in social research*, London: Sage.
5. Gerring, J. (2007). *Case study research: Principles and practices*. NY: Cambridge University Press.
6. Presser, S., Rothgeb, J.M., Couper, M.P., Lessler, J.T., Martin, E., Martin, J., & Singer, E. (2004). *Methods for testing and evaluating survey questionnaires*. New Jersey: John Wiley & Sons.
7. Cozby, P.C. (2003). *Methods in behavioral research*; Boston: MC Graw Hill.
8. Breakwell, G.M., Hammond, S., Fife-Shaw, C., & Smith, J.A. (2006). *Research methods in psychology* (3rd ed.). London: Sage.
9. Elmes, D.G., Kantowitz, B.H., & Roediger III, H.L. (2003). *Research methods in psychology* (7th ed.). Australia: Thomson.
10. Mc Burnay, D. H., & White, T. L. (2004). *Research methods*. Australia: Thomson.
11. Fischer, C.T. (Ed.) (2006). *Qualitative research methods for psychologists*. Boston: Academic Press.
12. Shaughnessy, J.J. Zchmeister, E.B. Zechmeister, J.S. (2006). *Research methods in psychology*, NY: McGraw Hill.
13. Mertens, D. M. (1998). *Research methods in education and psychology: Integrating diversity with qualitative and quantitative approaches*. London: SAGE.
14. McBurney, D. H., & White, T. L. (2004). *Research Methods*. Australia: Thomson.
15. Gravetter, F. J. Forzano, L. B. (2003). *Research methods for the behavioral sciences*. Australia: Thomson.
16. Scale, C., Gobo, G., Gubrium, J. F., & Selverman, D. (Eds.) (2007). *Qualitative research practice*. London: SAGE.
17. Flick, U. (2006). *An introduction to qualitative research*. London: SAGE.

Course Code: PSYD: 105

Course Title: Applied Statistics

Credit Hours: 3

Course Description:

The goal of this course is to develop skills with a range of procedures and programs for data analysis. The focus will be on practical issues such as selecting the appropriate analysis, preparing data for analysis, menu-driven, interpreting output, and presenting results of a complex nature. Possible topics to be covered include multivariate data screening and data analysis techniques.

Course Objectives:

The objectives of this course are to provide you with:

1. A basic foundation in statistical thinking and practice.
2. The necessary background for more advanced courses in statistics, experimental design, or research methods.
3. Improved critical reasoning skills

Course Contents:

1. Introduction to Statistics: What is statistics? What is Required Statistics? Determine the group of people to be studied, Collect the Data, Organize, Summaries and Analyze the Data, Review the Material
2. Descriptive vs. Inferential Statistics
3. Significance Testing, Type I & Type II errors Selecting the Right Statistics, What type of data do you have? If your data is numerical are you looking for a difference or a correlation, If you are looking for a difference, is your data related or unrelated
4. Basic Concepts: Designing a Research Project, Research Questions, Research Design, Variables
5. Beginning Data Analysis: Parametric & Non-Parametric tests
6. Introduction to SPSS
7. Describing the Data: Distribution, Average & Variance, Distributions
 1. Normal Distribution
 2. Skewed Distribution
 3. Central Tendency: Mode, Median, Mean
 4. Central Tendency and the Normal Distribution
 5. Measures of Dispersion, Range, Variance & Standard Deviation
 6. Standard Deviation & the Normal Distribution
8. Chi-Square Analysis
 - a. Chi-square goodness of fit test
 - b. Chi-square test for independence
 1. When should you use a test for independence
 2. What assumptions need to be met

3. Interpretation of output
 4. Presenting your result
 9. Correlation Analysis
 - a. Pearson's Correlation Analysis
 1. When should you use a Pearson Correlation Analysis
 2. Why use a Pearson Correlation Analysis
 3. What assumptions need to be met
 4. Interpretation of output
 5. Presenting your result
 - b. Spearman rho Correlation Analysis
 1. When should you use a Spearman rho Correlation Analysis
 2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
 - c. Partial Correlation Analysis
 1. When should you use a Partial Correlation Analysis
 2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
 10. T-tests
 - a. Independent samples t-test
 1. When should you use an Independent Sample t-test
 2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
 - b. Paired Sample t-test
 1. When should you use a Paired sample t-test
 2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
 11. Comparing Data: More than two groups
 - a. ANOVA
 1. When should you use ANOVA
 2. What assumptions need to be met
 3. One-way between groups ANOVA
 4. One-way within groups ANOVA
 5. Two-way ANOVA
 - b. MANOVA
 1. When should you use MANOVA
 2. What assumptions need to be met
 12. Simple Linear Regression Analysis
 13. Multiple Regression Analysis
 - a. Standard Multiple Regression
 1. When should you use Standard Multiple Regression Analysis

2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
 - b. Hierarchical Multiple Regression
 1. When should you use Hierarchical Multiple Regression Analysis
 2. What assumptions need to be met
 3. Interpretation of output
 4. Presenting your result
14. Presenting the Data: Tables, Figures & Graphs
- a. Tables
 1. When should you include a table
 2. Does my table follow APA format
 - b. Figures
 - c. Graphs
 1. Does my graph follow APA format
 2. Line graphs
 3. Bar charts
 4. Scatter plots
15. Interpreting Data: Drawing Conclusion
- a. APA report writing style
 1. Abstract
 2. Introduction
 3. Method
 4. Results
 5. Discussion
 - b. Summarizing your findings
 1. Descriptive Statistics
 2. Inferential Statistics
 - c. Evaluating your findings

Reading Material:

1. Steel, C., Andrews, H. & Upton, D (2014), Psychology Express: Statistics in Psychology. Uk: Pearson.
2. Moore, D. S. (2010). The Basic Practice of Statistics (5th Edition). NY: Freeman and Company
3. Howell, D. C. (2002). Statistical Methods for Psychology (5th Edition). Duxbury: Thomson Learning
4. Gravitor, F. J. & Wallnow (2010) Statistics for Behavioral Sciences (9th Ed).

Course Code: PSYD: 102

Course Title: Research Instrument Development

Credit Hours: 3

Course Contents:

1. Test Construction (Ability and Personality): Steps, General Principles, and Guidelines. Setting Standards (Cut-off scores, Norms etc)
2. Writing different types of test items: Multiple choice, True-False, Completion, Matching, Odd-man-out, Analogies.
3. Format of Test Items: Dichotomous, Polychotomous, Likert, Category, Checklist, Q-sort.
4. Easy Type Tests: Construction and Characteristics, How to Improve its development and use.
5. Adaptation: Nature, Meaning, and Purpose.
6. Translation: a. Nature and Definition, b. Types: Pragmatic, Aesthetic-Peotic, Ethnographic, Linguistic., c. Methods: Back Translation, Bilingual Technique, Committee Approach, Pre-Testing. D. Methods of assessing its quality: Back Translation, Knowledge Testing, Performance Testing, e. Context, Redundancy, Decentring and Types of errors in Translation, f. Rulse for good translation.
7. Cultural Issue in Measuring Psychological Constructs: Multicultural Testing b. Cultural Relativism, Culture freeness and culture freeness and culture fairness
8. Test Bias: Statistical Concept of Bias (Slope and Intercept Bias)
9. The Assessment of Affective Variables: Thurston and Likert Scales, Rating Scales, Differential Scales, Q-Sort technique, Questionnaires, Adjective Checklist, Content Analysis.
10. Problems of Test Development and adaptation especially in Pakistan.

Reading Material:

1. Anastasi, A. & Urbina, S. (1997). Psychological Testing. (7th ed.). New York: Prentice Hall International Inc.
2. Anstey, E. (1966). Psychological Tests. Belfast : University Press.
3. Goldfinger, K., & Pomerantz, A.M. (2014). Psychological Assessment and Report Writing. Los Angeles: Sage Publication Inc.
4. Hambleton, R. K., Merenda, P.F., & Spielberger, C. D. (2006). Adapting Educational and Psychological Tests for Cross-Cultural Assessment. USA: Lawrence Erlbaum Publishers.

Course Code: PSYD-104

Course Title: Academic Report Writing

Credit Hours: 3

Course Objectives

- To enhance and upgrade the receptive skills (Reading + Listening)
- To develop Professional Communication Skills.
- To help the students develop creative writing Skills.
- To help students write academically and professionally.

Course Contents:

1. Working with Listening Skills
 - Barriers to Listening and Strategies of overcoming them
 - Ways of become a good listener
 - Listening to variants of English Language
2. Improving Listening in Interviews
 - How to perform as a listener in a professional Interview
 - Understanding the core content of a question in a Job Interview
 - Mock Interview Sessions
3. Working with Reading Skills
 - Reading for Knowledge enhancement (Literature Review)
 - Reading with authentic sources (Journals)
 - Reading and Understanding an Abstract of a Research Paper (According to the basic elements of a research abstract)
4. Improving Reading Skills
 - Improving Reading Through New paper reading / Magazines / Books
 - Reading for Review
 - How to develop a book review
5. Essentials of Academic Writing / Synopsis
 - Fundamentals of Writing Research Proposal / Synopsis
 - Steps involved in writing a research proposal
6. Literature Review
 - Writing Literature Review
 - Parts of Literature Review
7. Citation Process
 - Techniques of avoiding Plagiarism in Research papers
 - Paraphrasing techniques
 - APA / MLA Formats
8. Writing Research Article / Thesis
 - Difference between a research article and Thesis
 - Fundamentals of Writing a research articles
9. Descriptive v/s Analytical Writing
 - Describing data in a research article
 - Writing analysis in a research article
 - Writing Impersonally (Avoiding use of personal pronouns and judgmental words)
10. Writing Abstract
 - Fundamentals of a research abstract / Parts of a Research Abstract
 - Techniques and essentials of writing an abstract
11. Data Presentation

- Methods of presenting data visually
 - Various types of presenting data using diagrams
12. Essay Writing
- Icebreaking activities of writing Analytical and Argumentative Essay
 - Writing Analytical and Argumentative Essay
13. Writing Long Reports
- Types of Reports
 - Writing Official Reports (Practice and Essentials)
14. Handling E-Sources
- Exploring Journals for research
 - Collecting Literature review for specific topic
15. Publishing the Research Work
- Presenting Research to the audience (Conference/Defence of thesis)
 - Publishing research work in Journals
16. Mock Research
- The Students shall be assigned a research work by the subject teacher.

Recommended Books

- *The Advanced Business English Guide: How to Communicate Effectively at the Workplace and Greatly Improve your Business Writing Skills.* (2020) By Christopher, Hill.
- *Success with English Communication.* (1992) by D Viviers and Van Schalkwyk.
- *Mastering Communication* (2009) by Nicky Stanton 5th edition

Course Code: PSYD-106

Course Title: Contemporary Data Analysis Tools

Credit Hours: 3

Course Description : The course data analysis in research has been designed to link the various aspects of research together. The student have been oriented to applied statistics, applied research, made familiar with terms and concepts of psychometrics. This course helps students understand the practical aspects of conceptualizing a research, coining the conceptual framework, collecting data, and conducting appropriate analysis to find meaningful results.

Course Objectives

1. Students will be able to understand how different aspects of research come together.
2. Moreover, they will be able to understand and take appropriate statistical procedures, interpret basic statistics tables and the salient features of a research report.

Course Outline :

1. Introduction to the course outline and discussion on course content and schedule of sessionals.
2. Data analysis in psychological research
3. Introduction to the software's (endnote)
4. Qualitative data analysis (strategies)
5. Orientation to N-vivo
6. Qualitative data analysis (strategies)
7. Measurement scales

8. A detailed orientation to SPSS environment
9. Writing, formatting and handling data
10. Data screening
11. Data manipulation
12. Graphical representation of data
13. Assumption Testing
14. Data exploration: Descriptive statistics, Reliability testing
15. Hypothesis testing: One sample t-test, Independent sample t-test, Paired sample t-test
16. Analysis of Variance (ANOVA)
17. Correlation (types, uses, and reporting)
18. Linear Regression (Simple and Multiple)
19. Mediation and Moderation analysis
20. Reporting results according to APA 7th Edition

Reading Material:

1. Field, E. (2009). *Discovering Statistics Using SPSS* (3rd Ed.). London: Sage Publications.
2. Clayton, K. N. (1984). *An Introduction to Statistics for Psychology and Education*. Columbus: Charles, E. Merrill Publishing Co.
3. Mertens, D.M. (1996). *Research Methods in Education and Psychology*. London: Sage Publications.
4. Shaughnessy, J., Zechmeister, E., & Zechmeister, J. (2003). *Research Methods in Psychology*. New York. Mc Graw Hill.

Internet Sources

<http://www.statsoft.com/>
<http://hsc.uwe.ac.uk/dataanalysis/>
<http://www.ats.ucla.edu/stat/spss/>
<http://quantpsy.org/calc.htm>