



University of Management and Technology (UMT), Lahore

Department of Clinical Psychology

We train professional

PhD in Clinical Psychology

Advance Quantitative Methods CP- 700

Week Plan

Instructor: Dr. Sadia Saleem & Dr. Sayyeda Taskeen Zahra

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Office Hours: Mondays 2:00-3:00, or by appt.

Thursdays 2:00 to 5:00

Course Description:

The course is aimed at opening and exploring an essential field of research in clinical psychology. The purpose is to give exposure to research areas and critical and new developments in the field of clinical psychology. It includes exposure to different research methods and instruments. It also focuses on the collection and collating data collection including various statistical procedures using SPSS. This course provides a base for doing a research project in the next semester.

Objectives:

- Comprehend the basic essentials of clinical research
- Able to understand the individual and cultural differences influence research outcome
- Describe different steps involved in the process of Clinical Research.
- Comprehend the nature, advantages and limitations of the main research design
- Appraise the need for having ethical principles guiding research.
- Understand the procedural issues involved in collecting and collating data in clinical research.

- Learn how to develop, organize and undertake a research project
- Understand the procedural issues involved in collecting and collating data in clinical research.
- Explaining and practicing the format of writing proposal and research reports

Teaching and Learning Strategies:

Teaching this course will be only part time dyadic and mainly practice and skills oriented. It will include lectures on theoretical issues and regular workshops for effective learning. Teaching would be more discussion oriented, so that trainees become reflective practitioners rather than mere recipients of knowledge. Trainees will be required to give class presentations. Students will be required to submit written reports on regular basis. Trainees will also be required to give demonstrations of different research scenario and subsequent statistical analysis on SPSS. Teachers will provide hand-outs and relevant reading material on regular basis.

Main contents

1. Foundations of Quantitative Research
2. The Research Process: From Research Idea to Evidence
3. Identifying and Formulating Research Problems
4. Literature Review for Quantitative Studies: Theoretical and Conceptual Frameworks
5. Sampling and Participants in Clinical Research
6. Quantitative data collection methods
7. Survey, Experimental and Quasi experimental research designs
8. Reliability, Validity and Quality of Measurement
9. Ethical and Cultural issues
10. Systematic Review
11. Developing and Reporting a Quantitative Research Proposal

Assessment plan

S. No	Assessment Task	Week no and date
1.	Assignment 1: Research Priorities in Pakistan	Week 3 22 nd October, 2026
2.	Quiz 1	Week 5 5 November 2026
3.	Assignment 2 Annotated bibliography	Week 6 12 November 2026
4.	Presentation 1: Research Design	Week 8 26 November 2026
5.	Quiz 2	Week 10 9 December 2026
6.	Presentation 2: Ethical issues in Quantitative Research	Week 11 17 December 2026
7.	Assignment 3 Research Proposal	Week 15
8.	Presentation 3 Research Proposal	Week 15 and 16 12-19 th January 2027