

Syllabus for PET Examination - PhD (Psychology)

Research Methodology

1. Foundations of Research

- Meaning, objectives and types of research
- Scientific vs non-scientific methods
- Verification and falsification
- Theory, concepts, constructs

2. Research Design & Hypothesis

- Experimental and non-experimental designs
- Cross-sectional vs longitudinal designs
- Formulation of hypotheses and research questions

3. Measurement, Scaling & Sampling

- Types of measurement scales
- Reliability and validity
- Sampling methods: probability & non-probability
- Sample size considerations

4. Statistics & Data Analysis

- Descriptive statistics (mean, SD, variance)
- Probability distributions
- Inferential statistics (t tests, chi-square)
- ANOVA, correlation, regression
- Introduction to multivariate analysis (factor, cluster, discriminant analysis)

5. Qualitative Methods

- Phenomenology
- Grounded theory
- Focus group and narrative analysis

6. Research Proposal Writing

- Literature review strategies
- Conceptualizing & drafting proposals

7. Publication & Ethics

- APA, MLA, Chicago referencing
- Research ethics, plagiarism, consent