



KAZI NAZRUL UNIVERSITY

DEPARTMENT OF APPLIED PSYCHOLOGY

Nazrul Road, Kalla More, P.O. – Kalla C. H.
Asansol – 713340, Dist.-Paschim Burdwan, West Bengal

PhD Coursework Curriculum and Syllabus

(As per Regulations relating to M.Phil, Ph.D.and Integrated M.Phil-Ph.D Programmes, KNU, 2016)

Curriculum

| Paper | Course Type | (L-T-P) | Credit | Total Marks |
|--|-------------|---------|--------|-------------|
| Research Methodology | Core | 3-1-0 | 4 | 10+40=50 |
| Literature review Submission and Presentation | Core | 0-1-2 | 2 | 30+20=50 |
| Statistics and Computer Applications In Behavioural Sciences | Core | 3-1-0 | 4 | 10+40=50 |
| SPSS analysis | Core | 0-1-2 | 2 | 30+20=50 |
| Total | | | 12 | 200 |

Syllabus

PHDAPSY101: Research methodology

Course Objectives:



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1. To develop deep understanding of research philosophy.
2. To develop critical thinking.
3. To acquaint research candidate with research ethics.

Learning Outcome:

1. Candidate will be skilled in critical thinking and reviewing literature on the basis of scientific merits.
2. Candidate should be able to adopt ethic based methodology.

Unit-1 Quantitative Methods:

Basic Laboratory Experiment, Randomized Experiment; **Multiple level of Independent and Dependent variables**, Factorial Design; **Cross sectional design versus Longitudinal design**.

Unit-2 Qualitative Methods:

Qualitative Data collection, Transcription; **Grounded Theory; Thematic Analysis; Phenomenology; Case Study**.

Unit-3 Critical Thinking: Introduction to Critical Thinking, Argument Basics, Fallacies, Inductive Arguments, Causal Arguments, Evaluating Arguments.

Unit-4 Psychological Test Construction:

Item Analysis; Reliability; Validity; Concept of triangulation.



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Unit-5 APA style guidelines:

Ethical issues in psychological research; Manuscript style.

References:

1. American Psychological Association. (1994). *Publication manual*. Sixth Edition. Washington. DC: American Psychological Association.
2. Howitt, D., & Cramer, D. (2014). *Introduction to research methods in psychology (4thed)*. Pearson Education.
3. Leavy, P. (Ed.). (2014). *The Oxford handbook of qualitative research*. Oxford library of psychology.
4. Singh, A. K. (2017). *Tests, measurements and research methods in behavioural sciences*. Bharati Bhawan Publisher
5. Vaughn, L., & MacDonald, C. (2013). *The power of critical thinking*. Oxford University Press.

PHDAPSY102: Literature Review

Course Objectives:

1. To give candidate exposure of different types of review.
2. To make candidate be able to apply his or her learned skill of research methodology in evaluation of literature.
3. To develop scientific writing skill.

Learning Outcomes:



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1. Candidate should be able to write review.
2. Candidate can venture to assist in review of journal articles.
3. Candidate should be able to write scientific proposal.

Practicum: Submission and presentation of Review of Literature in expected area of research (min. 3000 words)

PHDAPSY103: Statistics and Computer Applications in Behavioural Sciences

Course Objectives:

1. To make candidate familiar with advanced statistical method.
2. To enhance candidates skill in applying different statistical methods for same data.

Learning Outcomes:

1. Candidate should be able to understand the reasoning behind statistical methods.
2. Candidate should be able to practically perform calculations.

Unit-1: Parametric tests: Concept and SPSS analysis- "t" test, one-way and two-way analysis of variance, post-hoc tests, analysis of covariance, repeated measures analysis of variance.



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Unit-2: Non-parametric tests: Concept and SPSS analysis- Assumptions; One-sample tests (sign test, Mc Nemer test); two-sample test (Mann Whitney U test, Wilcoxon rank sum test); Kruskal Wallies test, and Friedman test and chi-square test.

Unit-3: Multivariate analysis: Concept and SPSS analysis - Introduction, Multiple regression and logistic regression.

Unit-4: Factor analysis, cluster analysis, discriminant functional analysis (with SPSS)

Unit-5: Graphical representations: SPSS chart builder; Graphing means, relationship and interaction effect.

References:

1. Burns, R. P., & Burns, R. (2008). *Business research methods and statistics using SPSS*. Sage.
2. Field, A. (2009). *Discovering statistics using SPSS*. Sage publications.
3. Kothari, C. R. (2003). *Research Methodology*. New Delhi: Wishwa Prakshan.
4. Siegal, S. & Castellan, N.J. (1988). *Non-parametric statistics for the behavioral sciences*. McGraw Hill: New Delhi

PHDAPSY104: SPSS analysis

Course Objectives:

1. To make candidate familiar with computer applications for statistics
2. To foster deep and wide learning of SPSS environment.
3. To teach candidate preparing research results as per scientific journal demands.



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Learning Outcome:

1. Candidate will be acquainted with current generation computer applications for statistics.
2. Candidate will be able to perform statistical analysis using SPSS for variety of data.
3. Candidate can get opportunity assistant statistical consultant in scientific journals.

Practicum: Solving, presenting result table as per APA style and interpreting the given problem using SPSS.

